



light-tec
be bright. save energy.

PANEL LED 72WATTS



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www.light-tec.com.gt

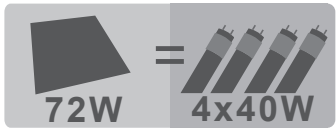


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PANEL 2X4' 72 WATTS

Voltaje: 85-265V
Consumo: 72 Watts
Ángulo: 120°
Eficiencia: 90 lm/w
Lumens: 6,480 lm
Color: 6,000k / 4,100
Factor de Potencia: >0.9
Grado de protección: IP20
CRI: ≥ 80

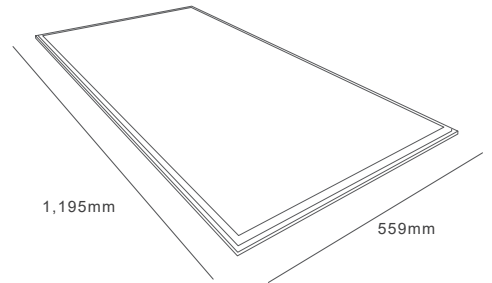
EQUIVALENCIA



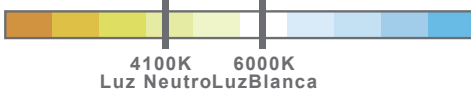
Ahorro hasta un 55%

30,000hrs
Horas de Vida

LED



Temperatura de Color



Residencial



Comercial



Oficinas



PARTES DE UN PANEL

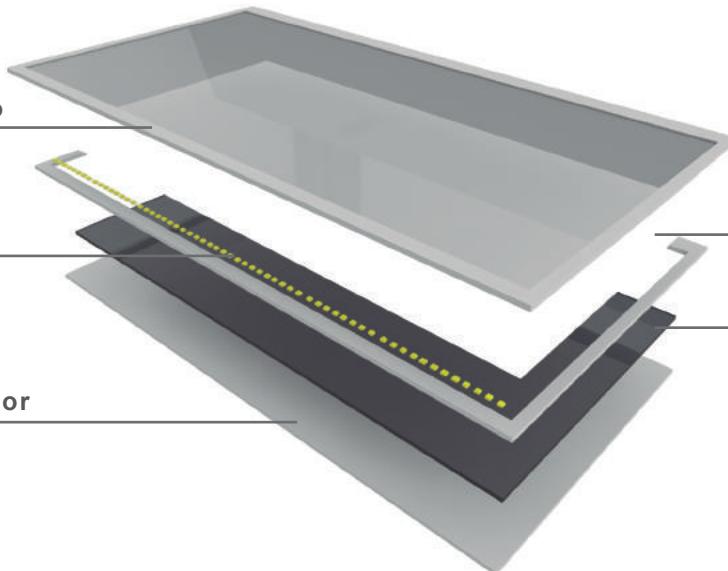
Marco de Aluminio

CHIP LED

Disipador de Calor

Cubierta

Difusor Nevado



PHOTOMETRIC RESULTS

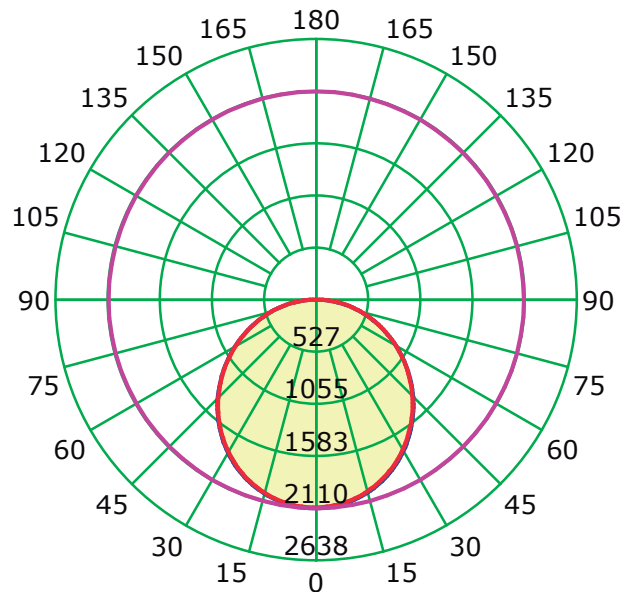
CIE Class: Direct
 Measurement Flux: 6163.3 lm
 Downward Ratio: 100%
 Field Angle: H166.4 V166.8
 Luminaire Efficacy Rating (LER): 86
 Max. Intensity: 2110.79 cd

Total Rated Lamp Lumens: 6163.3 lm
 Efficiency: 100%
 Upward Ratio: 0%
 Beam Angle: H112.8 V112.7
 Central Intensity: 2110.39 cd
 Pos of Max. Intensity: H0 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



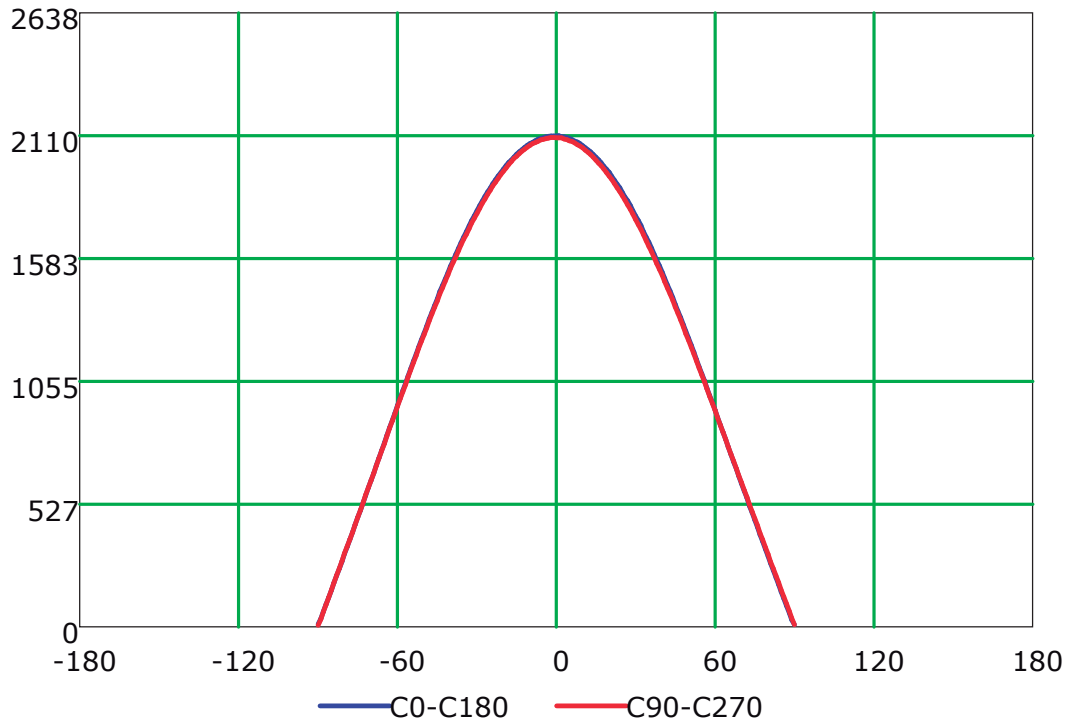
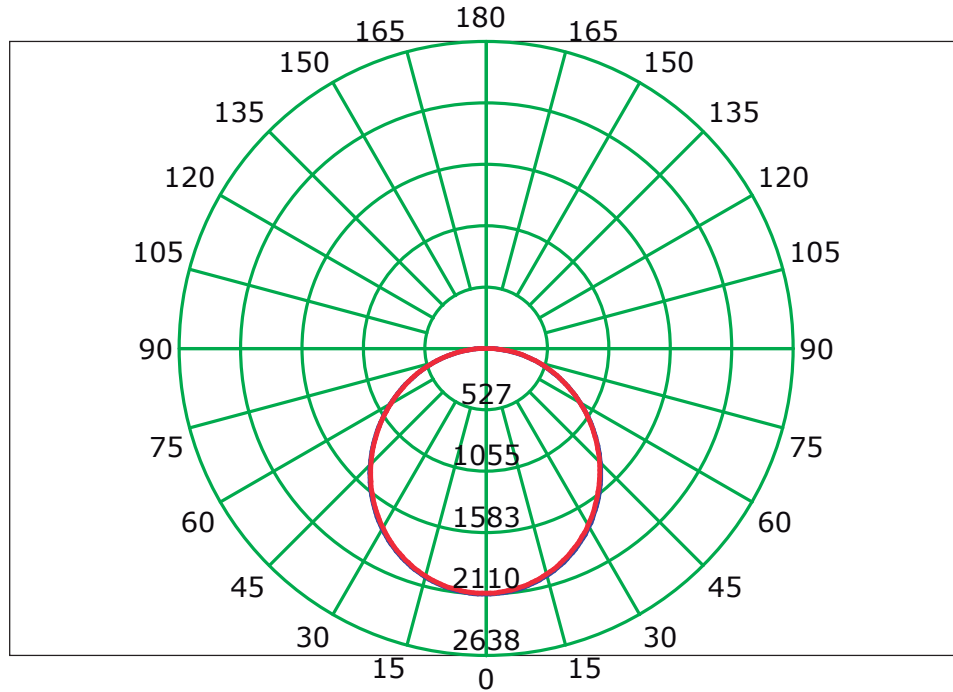
Unit: cd

— C0-C180 — C90-C270 — G1

C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.846 m
 Humidity:
 Inspector:

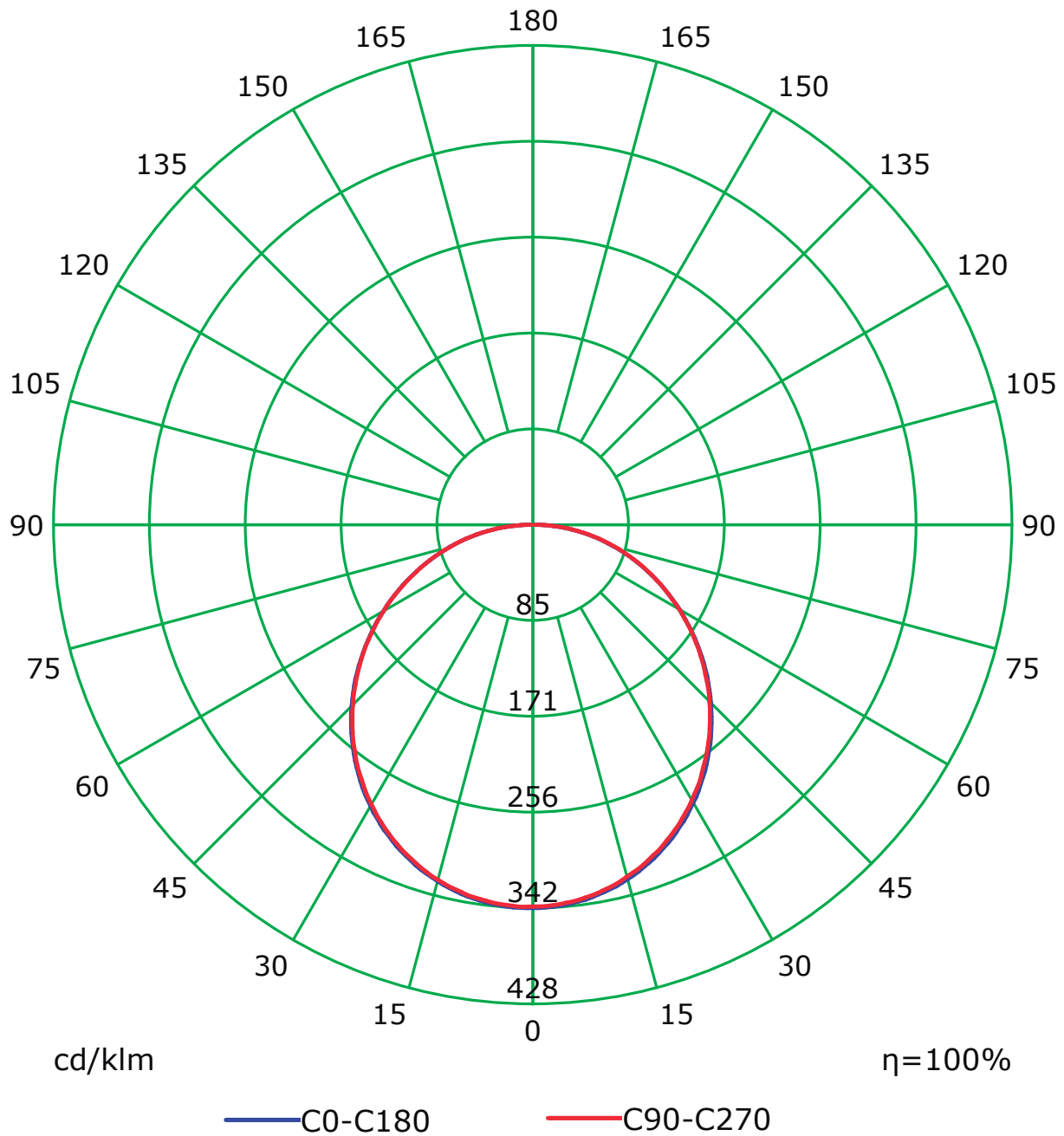
LUMINOUS INTENSITY DISTRIBUTION CURVE



C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.846 m
 Humidity:
 Inspector:

LUMINOUS INTENSITY DISTRIBUTION CURVE (cd/klm)



C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

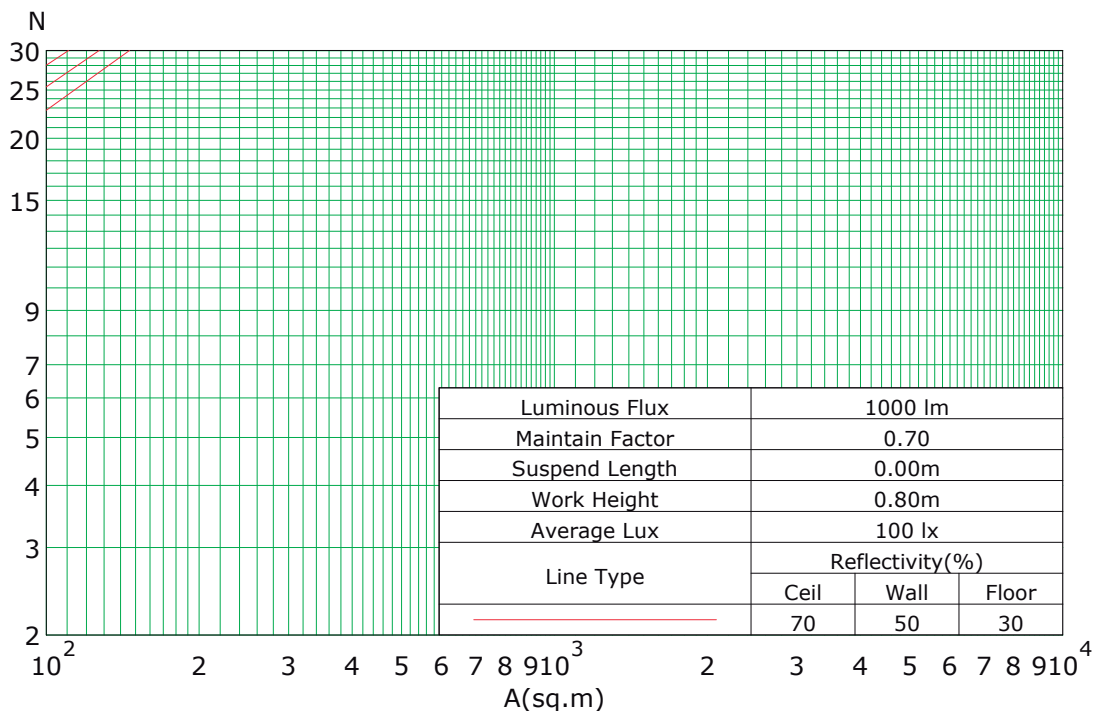
Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.846 m
 Humidity:
 Inspector:

COEFFICIENTS OF UTILIZATION ZONA CAVITY METHOD

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	94	105	101	97	93	97	93	90	93	90	87	89	87	85	82
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

Spacing Criteria (0-180): 1.25 Spacing Criteria (90-270): 1.25 Spacing Criteria (Diagonal): 1.37

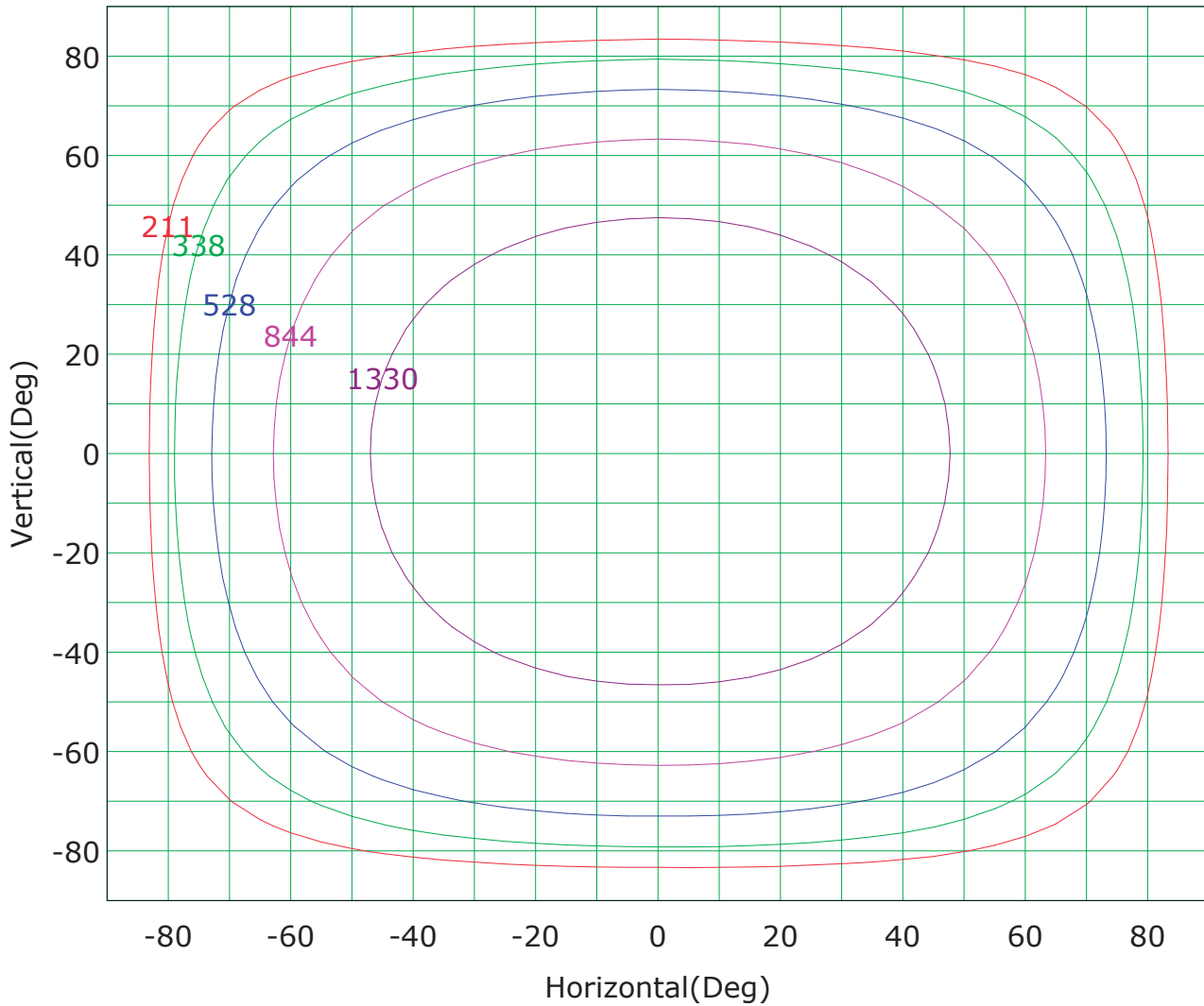
CURVE OF LUMINAIRES VS LIGHTING AREA



C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.846 m
 Humidity:
 Inspector:

ISOCANDELA (Rectangle)



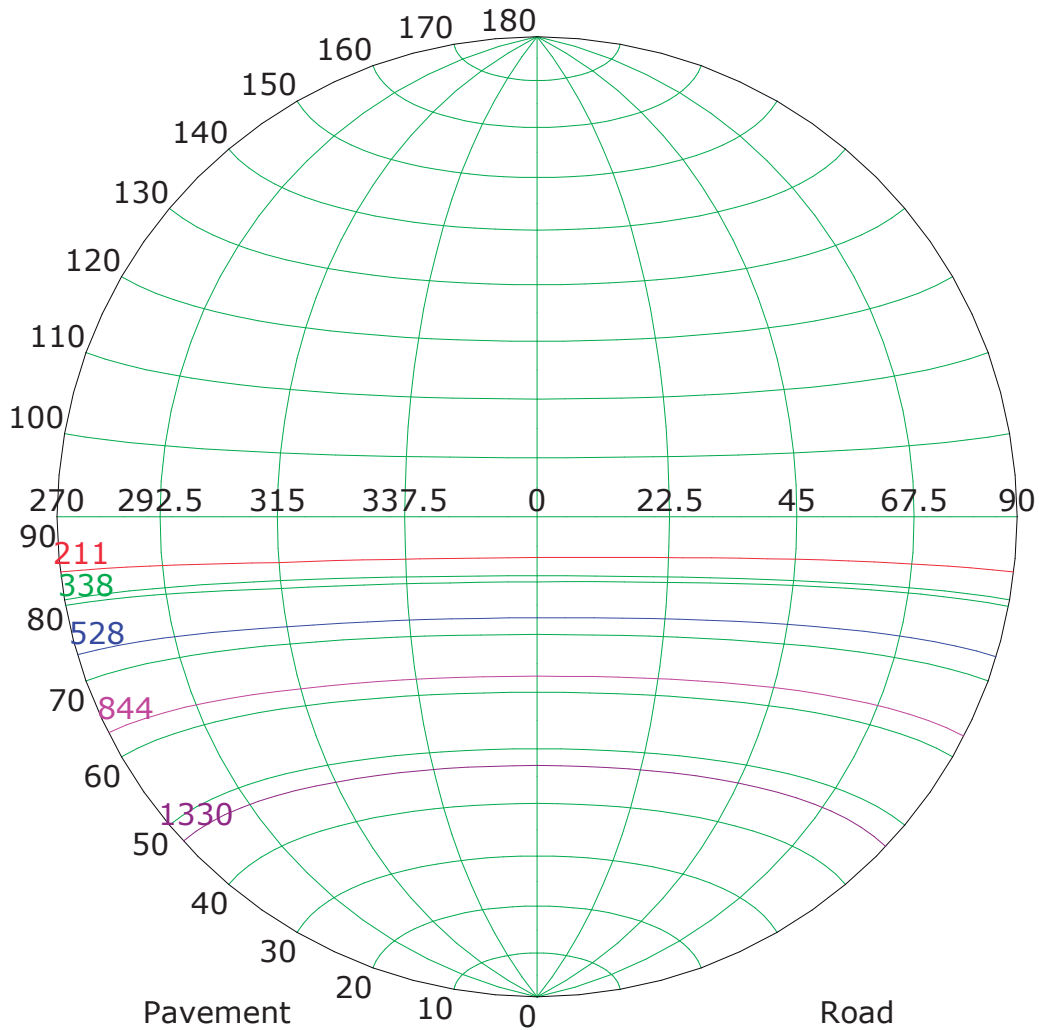
Imax (100%): 2111 cd

— (10%): 211 cd	— (16%): 338 cd
— (25%): 528 cd	— (40%): 844 cd
— (63%): 1330 cd	— (100%): 2111 cd

C Plane (°):0.0-360.0: 45.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.846 m
Humidity:
Inspector:

ISOCANDELA (Sphere)



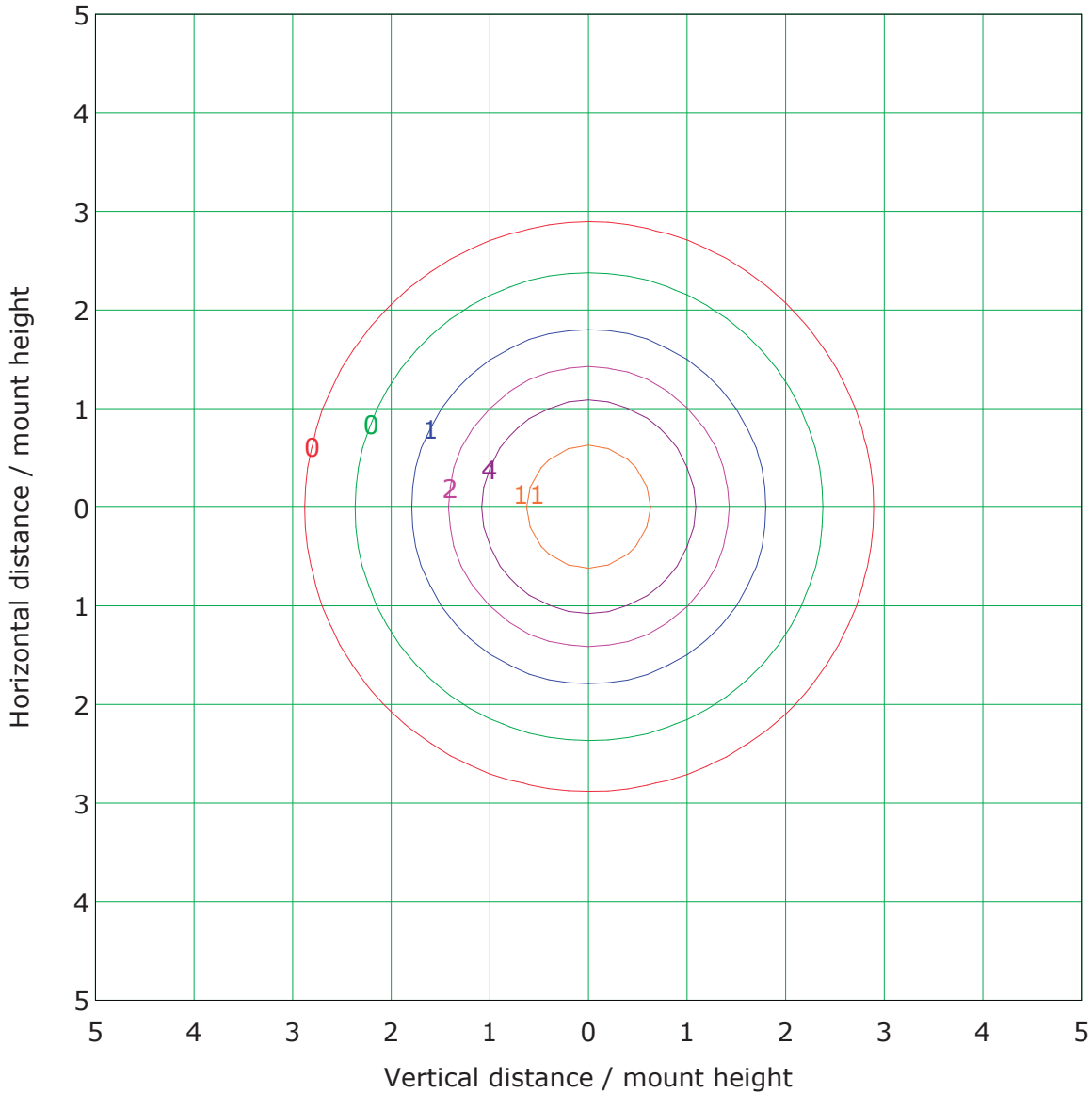
Imax (100%): 2111 cd

- | | |
|-------------------|-------------------|
| — (10%): 211 cd | — (16%): 338 cd |
| — (25%): 528 cd | — (40%): 844 cd |
| — (63%): 1330 cd | — (100%): 2111 cd |

C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.846 m
 Humidity:
 Inspector:

ISOLUX PLOT



Mounting Height: 10.0m Max Lux(100%): 21.1 lx

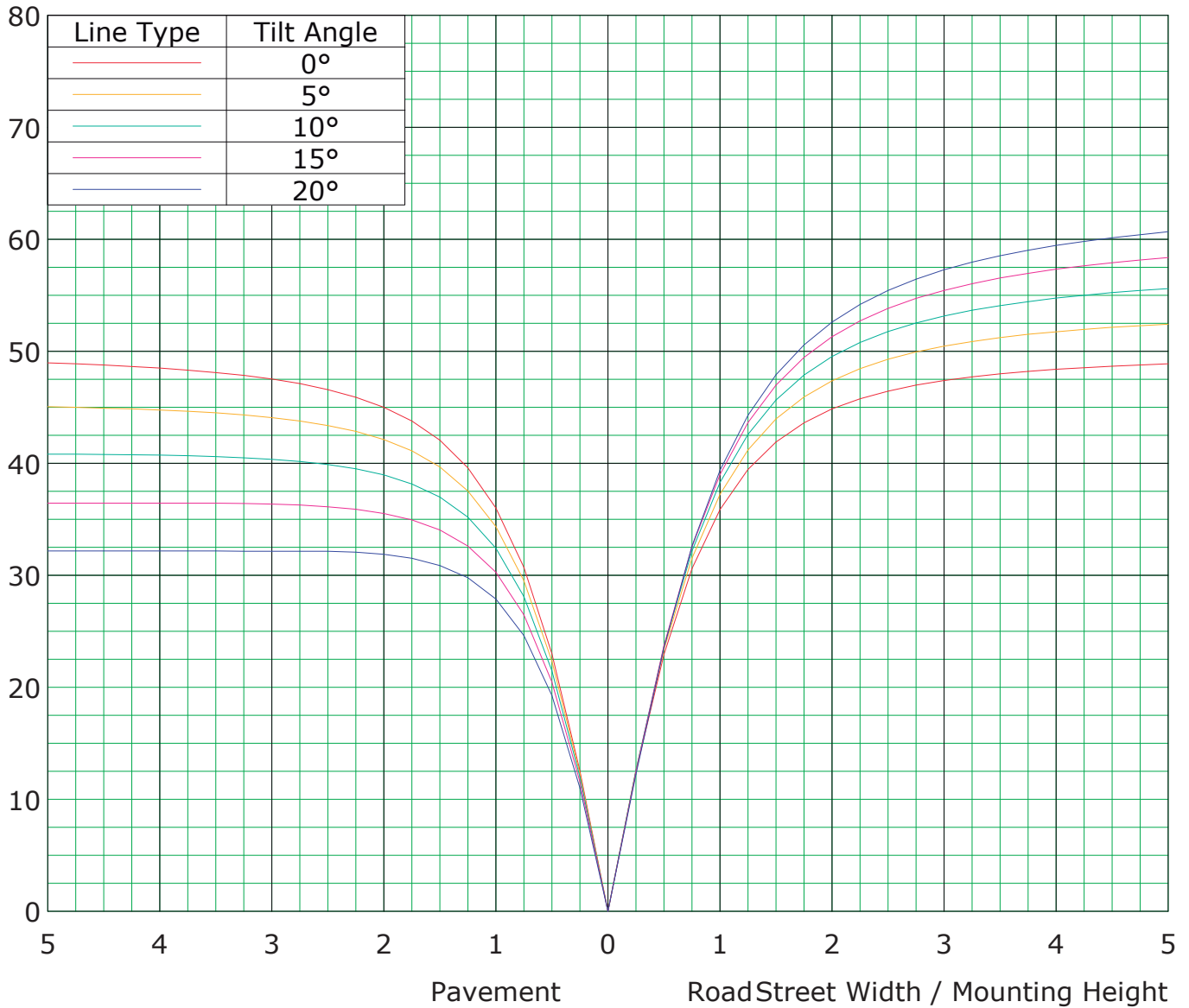
— (1%): 0.2 lx	— (2%): 0.4 lx
— (5%): 1.1 lx	— (10%): 2.1 lx
— (20%): 4.2 lx	— (50%): 10.6 lx
— (100%): 21.1 lx	

C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.846 m
 Humidity:
 Inspector:

ROADWAY CU CURVE

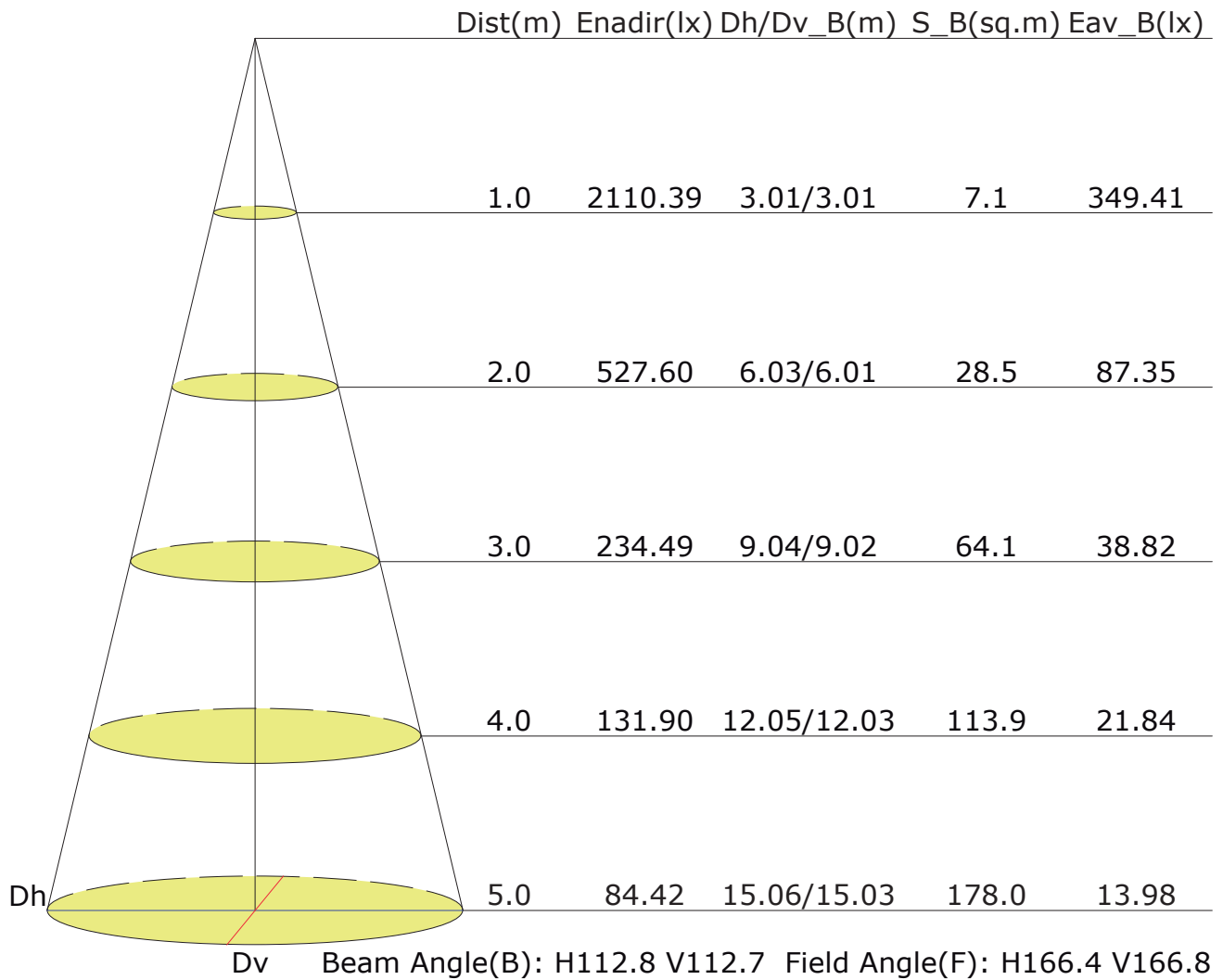
Efficiency(%)



C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.846 m
 Humidity:
 Inspector:

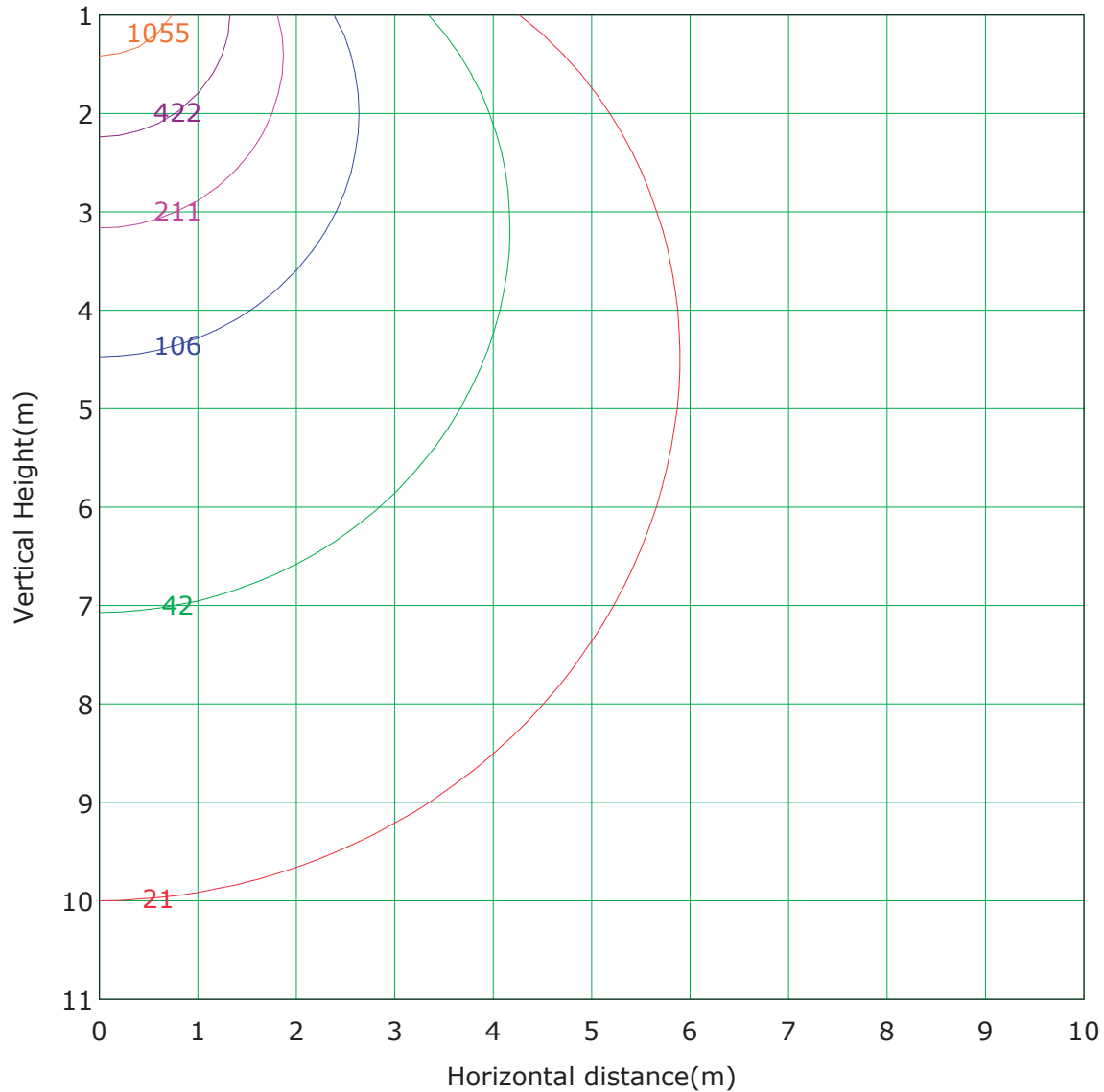
ILLUMINANCE AT A DISTANCE



C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.846 m
 Humidity:
 Inspector:

VERTICAL ISOLUX PLOT



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 2110.4 lx

— (1%): 21.1 lx	— (2%): 42.2 lx
— (5%): 105.5 lx	— (10%): 211.0 lx
— (20%): 422.1 lx	— (50%): 1055.2 lx
— (100%): 2110.4 lx	

C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.846 m
 Humidity:
 Inspector:

AREA FLUX TABLE

Unit: lm

	-90	0.1	0.4	0.9	1.6	2.3	3.1	3.9	4.5	4.8	4.8	4.4	3.8	3.0	2.2	1.4	0.8	0.3	0.1	42.3	14.6
	-80	0.2	1.0	2.5	4.6	7.0	9.4	11.6	13.3	14.2	14.2	13.2	11.5	9.3	6.8	4.5	2.4	0.9	0.1	126.9	120.2
	-70	0.2	1.6	4.2	7.6	11.6	15.7	19.4	22.2	23.8	23.7	22.1	19.3	15.6	11.4	7.5	4.0	1.5	0.2	211.9	209.8
	-60	0.3	2.2	5.7	10.5	16.1	21.9	27.2	31.1	33.3	33.2	31.0	27.0	21.7	15.9	10.3	5.6	2.1	0.3	295.3	294.2
	-50	0.4	2.7	7.1	13.2	20.3	27.7	34.4	39.5	42.2	42.1	39.3	34.2	27.4	20.1	12.9	6.9	2.6	0.4	373.4	372.7
	-40	0.5	3.1	8.3	15.5	24.0	32.8	40.8	46.9	50.1	50.0	46.7	40.5	32.5	23.7	15.2	8.1	3.0	0.4	442.2	441.7
	-30	0.5	3.5	9.2	17.4	27.0	37.0	46.0	52.8	56.5	56.4	52.6	45.6	36.6	26.6	17.1	9.0	3.4	0.5	497.6	497.1
	-20	0.5	3.7	9.9	18.7	29.1	39.9	49.7	57.0	60.9	60.8	56.7	49.3	39.5	28.7	18.3	9.7	3.6	0.5	536.4	536.0
	-10	0.6	3.8	10.2	19.4	30.2	41.5	51.6	59.2	63.1	63.0	58.9	51.2	40.9	29.7	19.0	10.0	3.7	0.5	556.6	556.3
Vertical plane	0	0.6	3.8	10.3	19.4	30.2	41.5	51.6	59.1	63.0	63.0	58.8	51.1	40.9	29.7	19.0	10.0	3.7	0.5	556.2	555.8
	10	0.5	3.7	9.9	18.7	29.1	39.8	49.5	56.7	60.5	60.4	56.5	49.2	39.4	28.7	18.3	9.7	3.6	0.5	534.9	534.5
	20	0.5	3.5	9.3	17.4	27.0	36.9	45.8	52.4	55.9	55.8	52.2	45.5	36.5	26.6	17.1	9.1	3.4	0.5	495.3	494.9
	30	0.5	3.2	8.3	15.6	24.1	32.8	40.6	46.4	49.4	49.3	46.2	40.3	32.5	23.7	15.3	8.2	3.1	0.4	439.7	439.2
	40	0.4	2.7	7.2	13.3	20.5	27.8	34.2	39.0	41.5	41.5	38.9	34.0	27.5	20.2	13.0	7.0	2.6	0.4	371.5	370.8
	50	0.3	2.2	5.8	10.7	16.4	22.1	27.1	30.8	32.7	32.7	30.7	26.9	21.8	16.1	10.5	5.6	2.1	0.3	294.7	293.6
	60	0.2	1.6	4.3	7.9	12.0	16.0	19.5	22.1	23.4	23.4	22.0	19.3	15.7	11.7	7.6	4.1	1.6	0.2	212.9	210.9
	70	0.2	1.0	2.7	4.9	7.4	9.8	11.9	13.4	14.1	14.1	13.3	11.7	9.6	7.1	4.7	2.5	1.0	0.1	129.4	123.5
	80	0.1	0.4	1.0	1.8	2.7	3.5	4.2	4.7	4.9	4.9	4.6	4.0	3.3	2.5	1.6	0.9	0.4	0.1	45.6	16.5
	90	6.5	44.2	116.6	217.8	336.9	459.3	569.0	651.0	694.3	693.3	648.1	564.3	453.7	331.4	213.4	113.8	42.9	6.2	6163	
Flux(T)		2.6	39.5	112.1	213.4	332.5	454.9	564.6	646.4	689.4	688.5	643.6	559.9	449.2	326.9	208.9	109.3	38.1	2.3		6082
Flux(E)		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	
		Horizontal plane																			
		Flux(T)										Flux(E)									

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