

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P381193

Luminaire Tested: **PRV-XL-PA3B-8540-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA3B-8540-U-T2R-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 85 CRI, 4000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18951.7 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 234
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

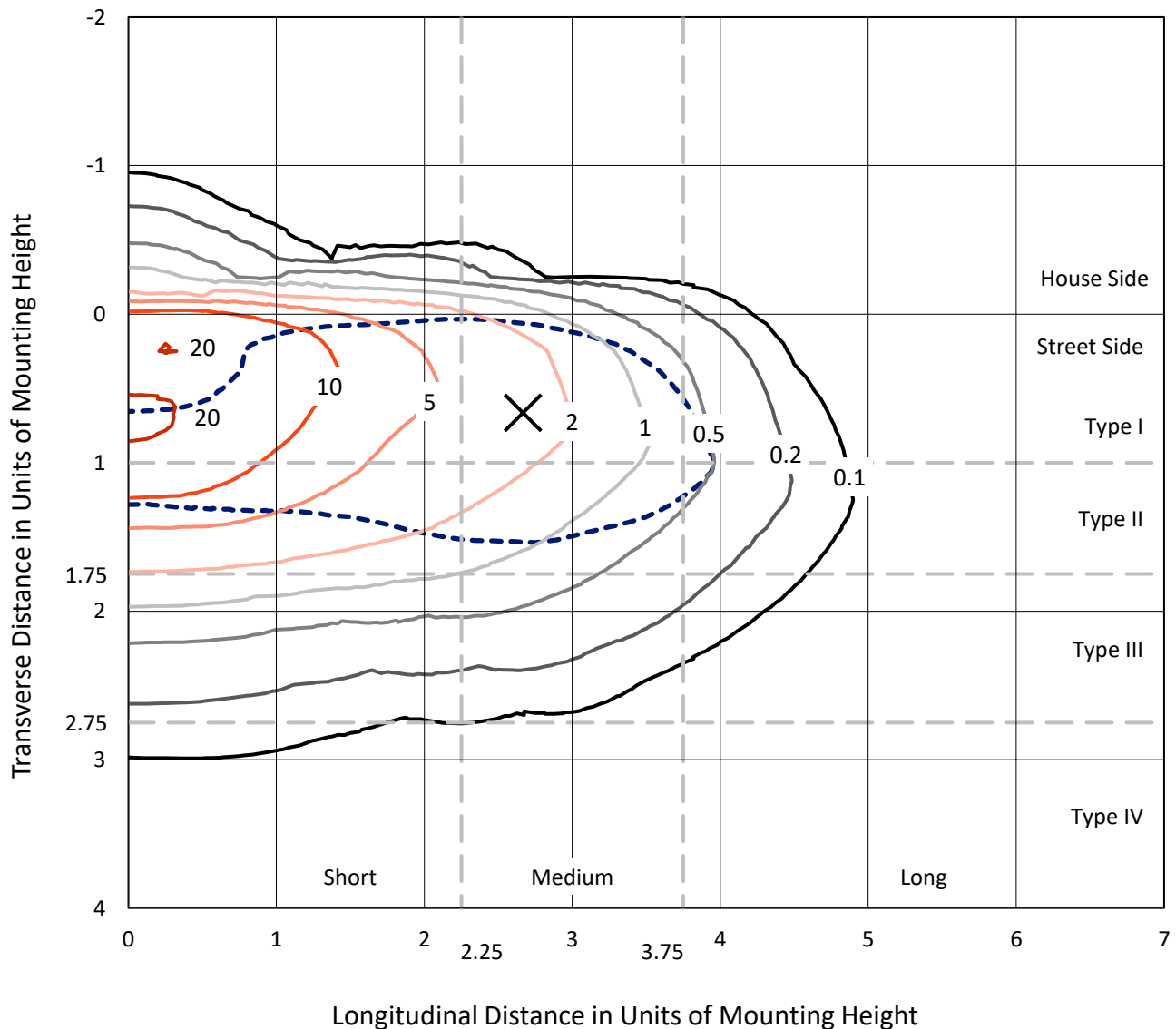


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

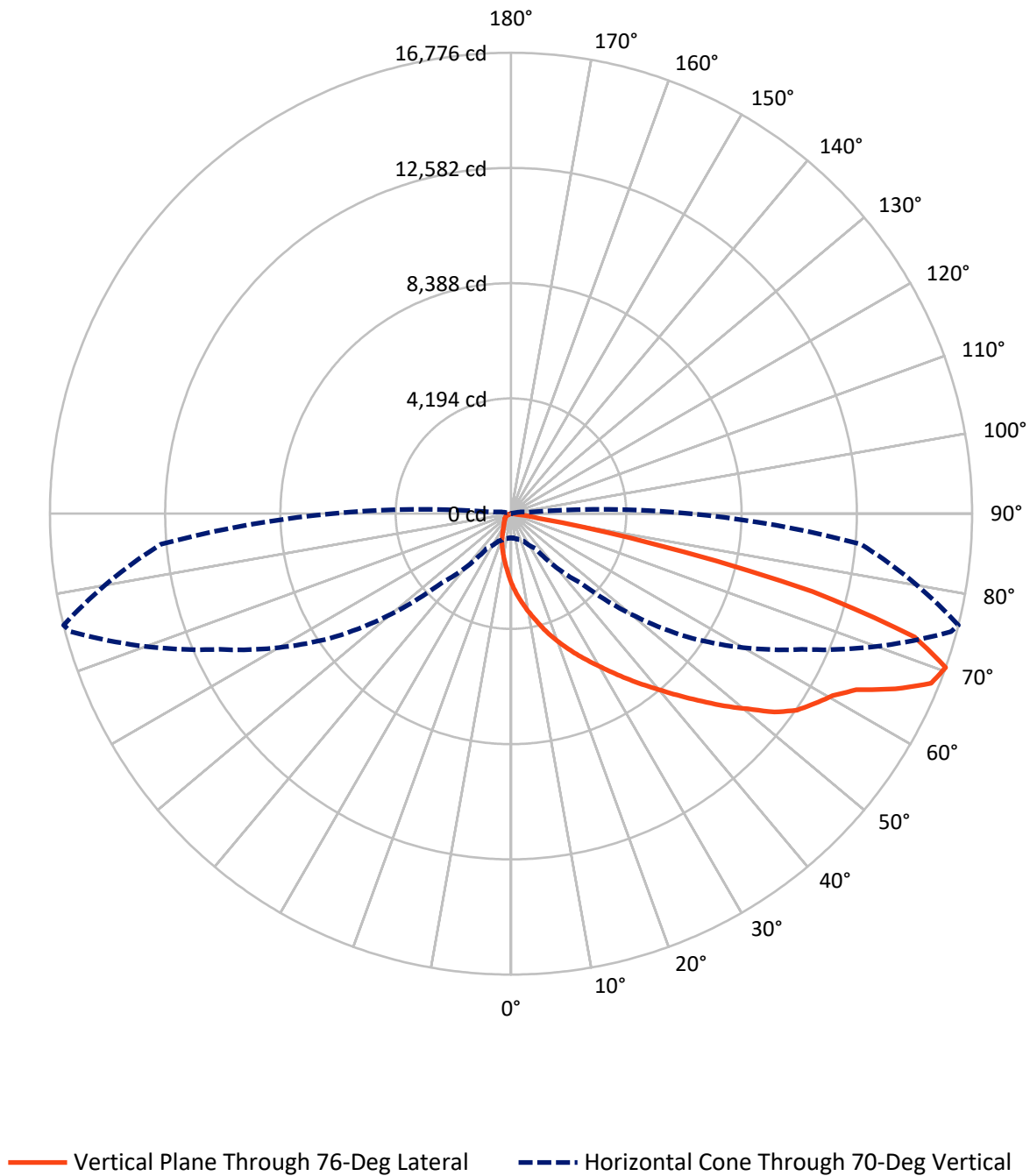


Based on 15 foot mounting height. Maximum calculated value = 21.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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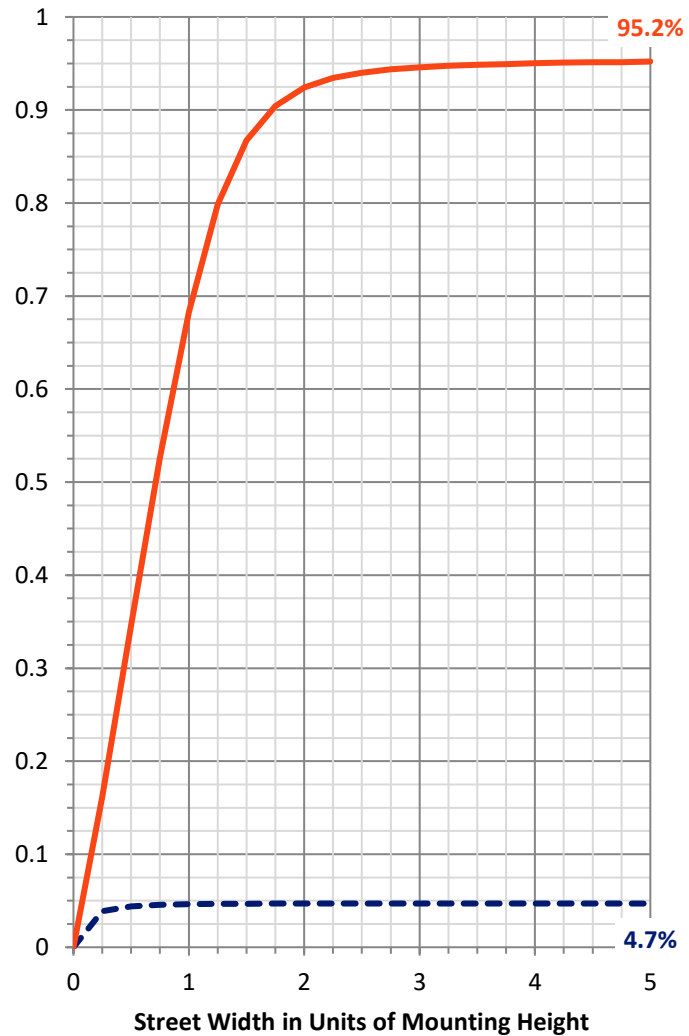
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	893.8	0.0	893.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	18057.9	0.0	18057.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	18951.7	0.0	18951.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.0	1.3
10°-20°	771.3	4.1
20°-30°	1436.5	7.6
30°-40°	2540.8	13.4
40°-50°	3885.5	20.5
50°-60°	4405.3	23.2
60°-70°	3776.4	19.9
70°-80°	1829.1	9.7
80°-90°	67.8	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	18951.7	100.0
0°-180°	18951.7	100.0

Coefficient of Utilization



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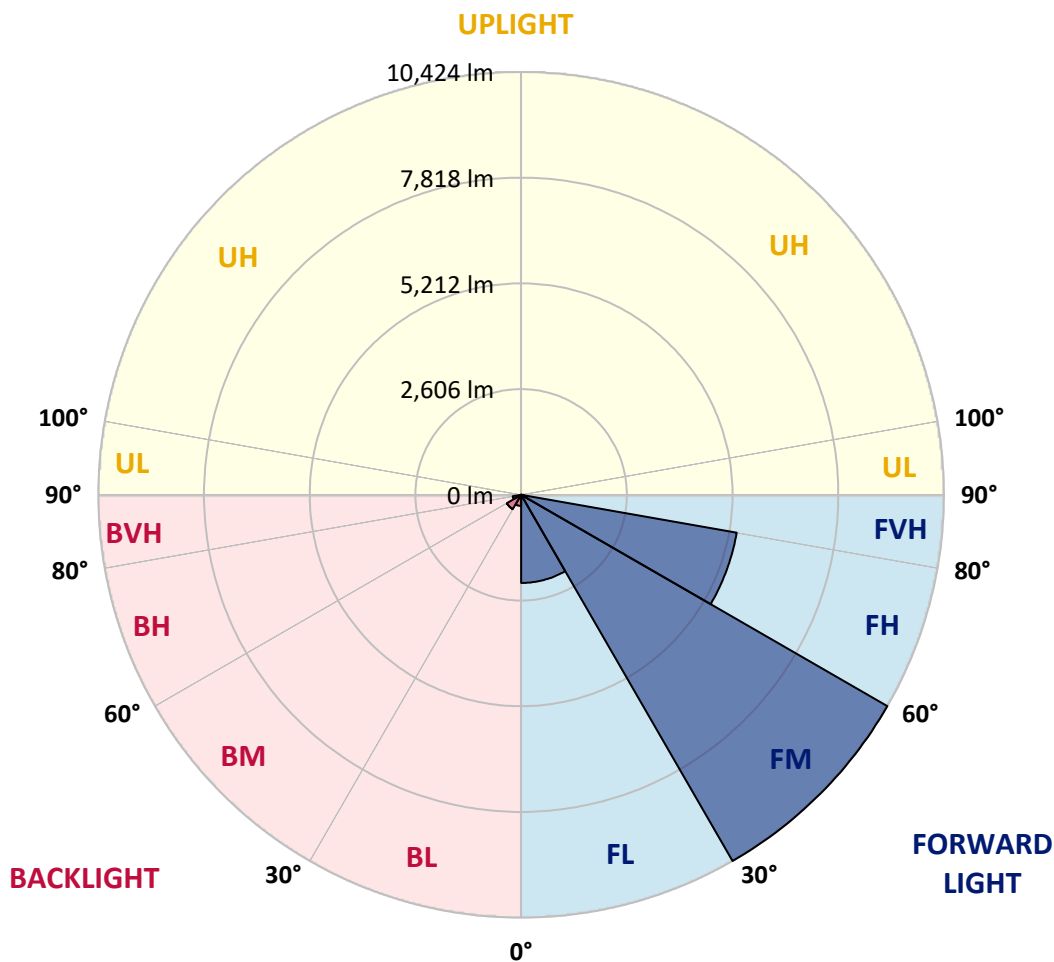
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2172.6	11.5			
FM	(30°-60°)	10423.6	55.0			
FH	(60°-80°)	5395.0	28.5			G3/7500
FVH	(80°-90°)	66.7	0.4			G1/100
BL	(0°-30°)	274.2	1.4	B1/500		
BM	(30°-60°)	408.0	2.2	B1/1000		
BH	(60°-80°)	210.5	1.1	B1/500		G1/500
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8
2.5°	3467.6	3448.6	3429.8	3357.2	3290.9	3231.0	3117.4	2969.1	2836.6	2808.2	2653.6
5°	4073.4	4051.3	4022.9	3950.4	3865.2	3764.2	3596.9	3369.8	3136.3	3085.8	2798.7
7.5°	4483.6	4464.7	4423.6	4388.9	4303.8	4206.0	4019.8	3754.7	3432.9	3369.8	2965.9
10°	4764.4	4751.8	4745.4	4717.1	4654.0	4575.1	4388.9	4111.3	3732.6	3660.1	3142.6
12.5°	4865.4	4865.4	4897.0	4944.3	4953.7	4928.5	4758.1	4480.4	4048.2	3972.5	3350.8
15°	4729.7	4745.4	4814.9	4966.3	5124.1	5228.2	5121.0	4862.2	4395.2	4313.2	3596.9
17.5°	4691.8	4707.6	4754.9	4887.5	5098.9	5376.5	5430.2	5231.4	4723.4	4654.0	3849.4
20°	4799.1	4814.9	4855.9	4969.5	5130.5	5411.2	5635.3	5588.0	5070.5	4997.9	4105.0
22.5°	5054.7	5064.1	5064.1	5152.5	5294.5	5502.8	5764.6	5925.5	5427.0	5348.1	4357.4
25°	5603.7	5584.7	5509.0	5464.9	5556.4	5726.8	5928.7	6222.1	5824.6	5717.3	4628.7
27.5°	6323.1	6386.2	6203.2	5991.8	5922.4	6020.2	6159.0	6484.0	6209.5	6095.9	4874.9
30°	7298.0	7272.8	7033.1	6730.1	6430.4	6395.7	6443.0	6708.0	6594.4	6487.2	5149.3
32.5°	8099.5	8146.8	7894.4	7525.3	7077.2	6865.8	6815.3	6976.2	7004.6	6935.2	5474.3
35°	8923.0	8973.5	8727.4	8317.2	7784.0	7430.6	7285.4	7307.5	7512.7	7424.2	5815.1
37.5°	9661.4	9705.5	9462.6	9042.9	8509.6	8077.4	7869.2	7698.8	8004.8	7926.0	6174.8
40°	10223.0	10229.3	10065.2	9689.7	9184.9	8736.9	8500.2	8165.8	8525.5	8471.8	6550.3
42.5°	10620.5	10633.1	10513.3	10191.4	9724.5	9307.9	9115.5	8717.9	9124.9	9077.6	6985.7
45°	10806.7	10828.8	10816.1	10519.5	10131.5	9771.8	9708.7	9304.8	9781.2	9737.1	7487.4
47.5°	10630.0	10630.0	10790.9	10749.9	10393.4	10153.6	10226.1	9916.9	10494.3	10453.3	7998.5
50°	9894.8	9904.3	10232.4	10702.6	10494.3	10440.7	10667.8	10516.4	11141.2	11166.4	8610.7
52.5°	7963.8	7948.1	9055.6	9958.0	10424.9	10570.0	11074.9	11128.5	11917.3	11993.1	9219.6
55°	5950.8	5941.3	7001.5	8639.1	9939.0	10503.8	11302.1	11674.4	12579.9	12627.3	9674.0
57.5°	4710.8	4685.6	5269.3	6963.6	8841.0	10207.2	11311.5	11778.5	12949.1	13031.2	10115.7
60°	3622.2	3600.2	4035.6	5180.9	7285.4	9418.4	11040.1	11784.8	13305.7	13450.8	10708.9
62.5°	2590.5	2615.7	2950.1	3716.9	5603.7	8304.6	10686.8	11873.2	13939.8	14103.9	11551.3
65°	1748.0	1735.4	2013.0	2530.5	3985.1	6805.8	10144.1	12059.3	15082.1	15369.2	12561.0
67.5°	1214.7	1224.2	1350.4	1647.0	2530.5	5225.0	9241.7	12163.4	16262.1	16486.1	13267.8
70°	877.2	889.8	959.2	1107.5	1546.0	3543.3	7812.4	11687.0	16580.8	16776.4	12775.6
72.5°	577.4	602.7	706.7	785.7	987.6	2218.2	5755.1	10068.4	15208.2	15353.4	10718.3
75°	312.3	318.7	454.4	586.9	703.6	1382.0	3432.9	6790.1	11377.8	11330.5	7067.7
77.5°	243.0	252.4	280.8	419.6	473.3	760.4	1356.8	3066.9	5389.2	5244.0	2410.6
80°	148.3	154.6	195.6	249.2	331.3	441.8	397.5	833.0	1094.9	1025.4	353.4
82.5°	88.3	94.7	116.7	208.3	261.9	208.3	138.8	201.9	205.1	201.9	88.3
85°	15.7	15.7	82.1	145.2	138.8	60.0	82.1	66.2	60.0	63.1	18.9
87.5°	0.0	0.0	31.6	44.2	63.1	22.1	31.6	15.7	15.7	15.7	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8
2.5°	2558.9	2451.7	2230.8	2038.3	1845.8	1703.8	1596.5	1486.1	1448.2	1400.9	1375.7
5°	2603.1	2391.7	1953.1	1602.9	1306.3	1079.1	934.0	845.6	788.8	747.8	738.3
7.5°	2669.3	2344.4	1729.1	1255.8	930.8	703.6	583.7	523.7	492.2	473.3	467.0
10°	2748.2	2303.4	1508.2	978.1	656.3	495.4	429.1	403.9	391.3	384.9	381.8
12.5°	2858.7	2287.5	1322.0	754.1	495.4	407.0	372.3	356.6	347.1	337.6	334.4
15°	3003.8	2293.9	1151.6	583.7	410.2	362.8	334.4	318.7	306.1	296.6	296.6
17.5°	3155.3	2303.4	984.5	473.3	372.3	331.3	299.7	277.7	268.2	258.7	255.6
20°	3297.2	2300.1	823.5	403.9	337.6	296.6	265.0	243.0	227.1	217.7	217.7
22.5°	3432.9	2281.3	672.0	362.8	309.2	261.9	227.1	205.1	192.5	183.0	183.0
25°	3578.1	2243.4	549.0	331.3	274.5	230.4	195.6	173.5	164.0	154.6	154.6
27.5°	3691.6	2180.3	448.0	302.9	243.0	198.8	167.2	148.3	138.8	132.5	132.5
30°	3814.7	2088.7	372.3	271.4	211.4	170.4	142.0	126.2	116.7	113.6	113.6
32.5°	3950.4	1987.8	318.7	239.8	179.9	145.2	119.9	110.4	100.9	97.8	97.8
35°	4108.1	1899.5	287.1	208.3	157.8	123.1	104.1	94.7	88.3	88.3	88.3
37.5°	4287.9	1807.9	258.7	183.0	135.7	104.1	88.3	85.2	82.1	78.8	78.8
40°	4483.6	1710.2	233.5	160.9	116.7	88.3	75.7	75.7	72.6	72.6	72.6
42.5°	4704.4	1625.0	211.4	142.0	100.9	75.7	66.2	66.2	63.1	63.1	63.1
45°	4944.3	1546.0	192.5	126.2	88.3	66.2	60.0	56.8	53.6	53.6	53.6
47.5°	5228.2	1501.9	176.7	110.4	75.7	56.8	50.5	47.3	44.2	41.0	41.0
50°	5591.1	1520.8	160.9	91.5	66.2	47.3	41.0	37.9	34.7	31.6	31.6
52.5°	5878.2	1511.3	138.8	78.8	53.6	37.9	31.6	28.4	25.2	22.1	22.1
55°	6086.4	1473.5	119.9	66.2	41.0	31.6	25.2	18.9	15.7	15.7	15.7
57.5°	6291.6	1435.6	100.9	53.6	31.6	22.1	15.7	12.6	12.6	12.6	12.6
60°	6610.2	1382.0	88.3	44.2	25.2	15.7	9.5	9.5	6.3	6.3	6.3
62.5°	6998.3	1315.8	72.6	37.9	18.9	12.6	6.3	6.3	0.0	0.0	0.0
65°	7424.2	1199.0	60.0	28.4	15.7	9.5	6.3	0.0	0.0	0.0	0.0
67.5°	7326.5	962.4	50.5	18.9	12.6	6.3	3.1	0.0	0.0	0.0	0.0
70°	6480.9	650.0	41.0	15.7	9.5	6.3	3.1	0.0	0.0	0.0	0.0
72.5°	5076.8	384.9	28.4	12.6	6.3	3.1	0.0	0.0	0.0	0.0	0.0
75°	3249.9	192.5	18.9	9.5	6.3	3.1	0.0	0.0	0.0	0.0	0.0
77.5°	1088.5	94.7	12.6	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	154.6	31.6	6.3	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	34.7	12.6	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.6	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)