

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: P381189

Luminaire Tested: **PRV-PA1B-8540-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381189
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-PA1B-8540-U-T2R-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 85 CRI, 4000K, 930mA LIGHT ENGINE 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: 6119.1 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 74
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

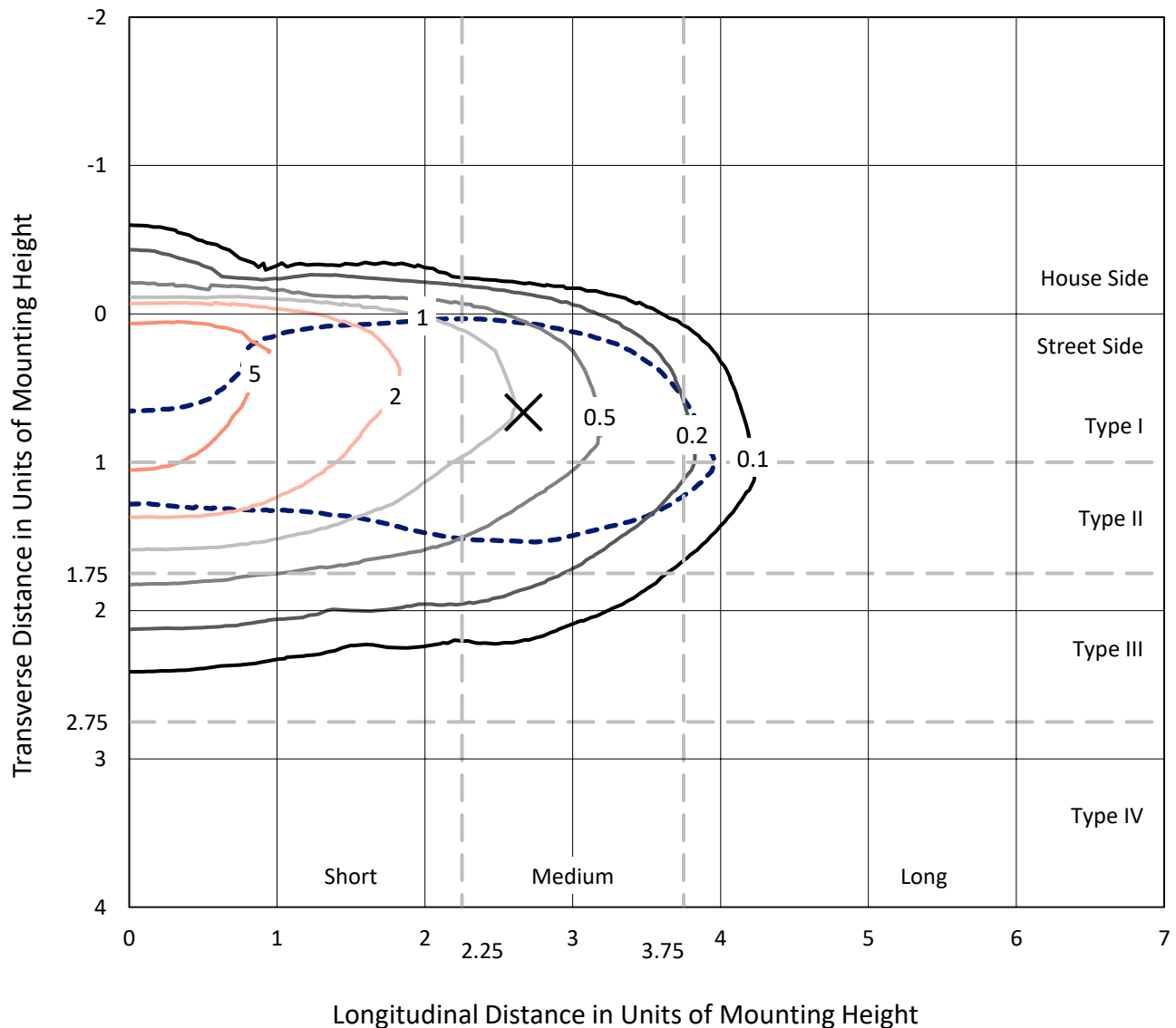


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

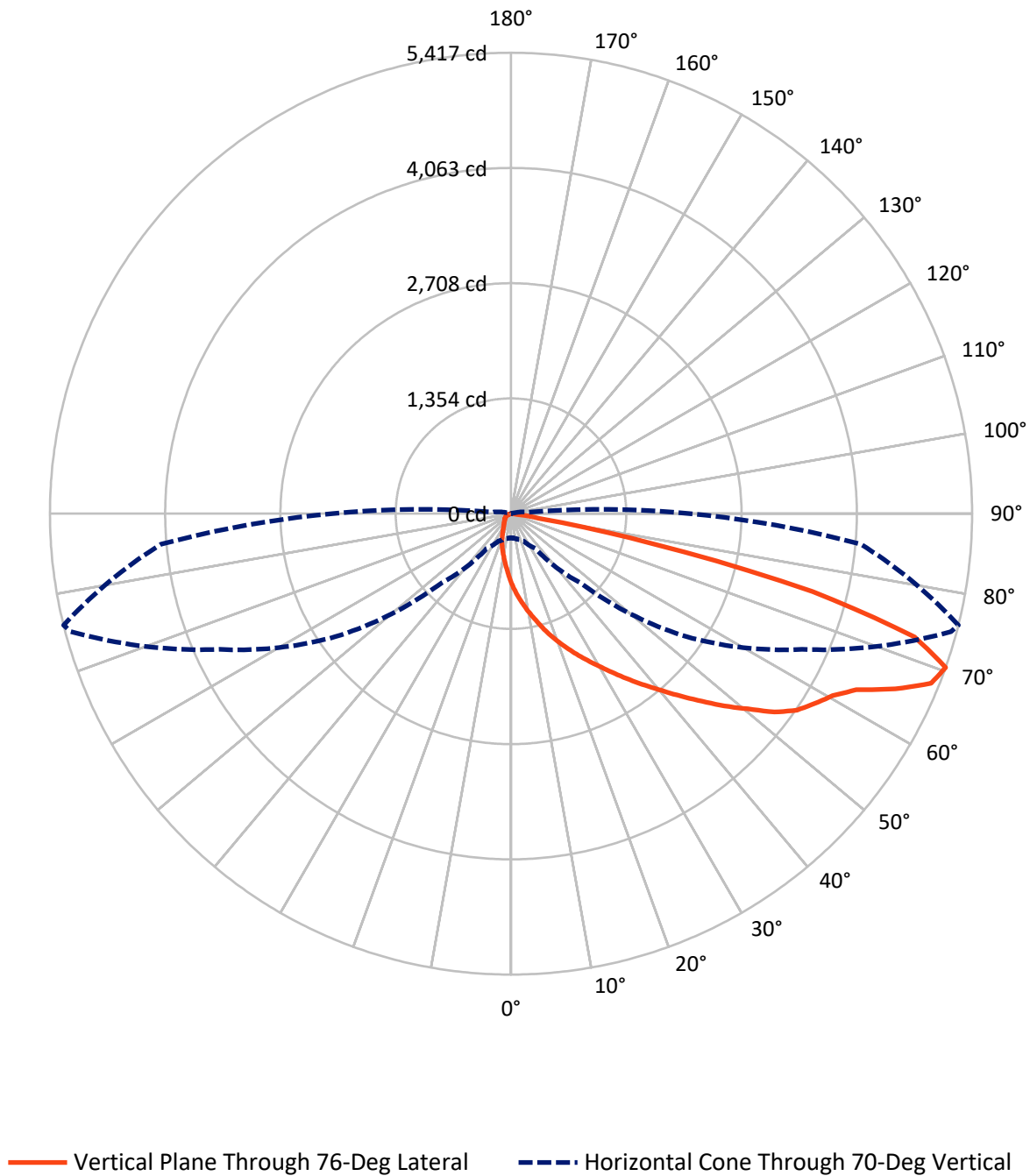


Based on 15 foot mounting height. Maximum calculated value = 7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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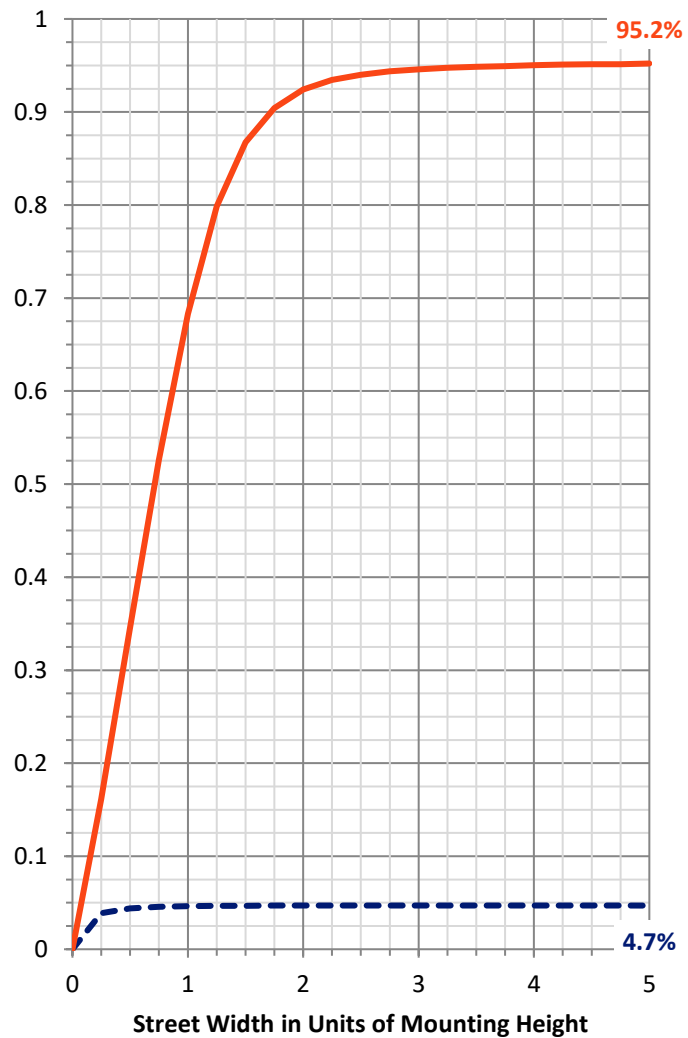
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	288.6	0.0	288.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	5830.6	0.0	5830.6
	% Fixture	95.3	0.0	95.3
Total	Lumens	6119.1	0.0	6119.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	1.3
10°-20°	249.0	4.1
20°-30°	463.8	7.6
30°-40°	820.4	13.4
40°-50°	1254.6	20.5
50°-60°	1422.4	23.2
60°-70°	1219.3	19.9
70°-80°	590.6	9.7
80°-90°	21.9	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°	6119.1	100.0
0°-180°	6119.1	100.0

Coefficient of Utilization



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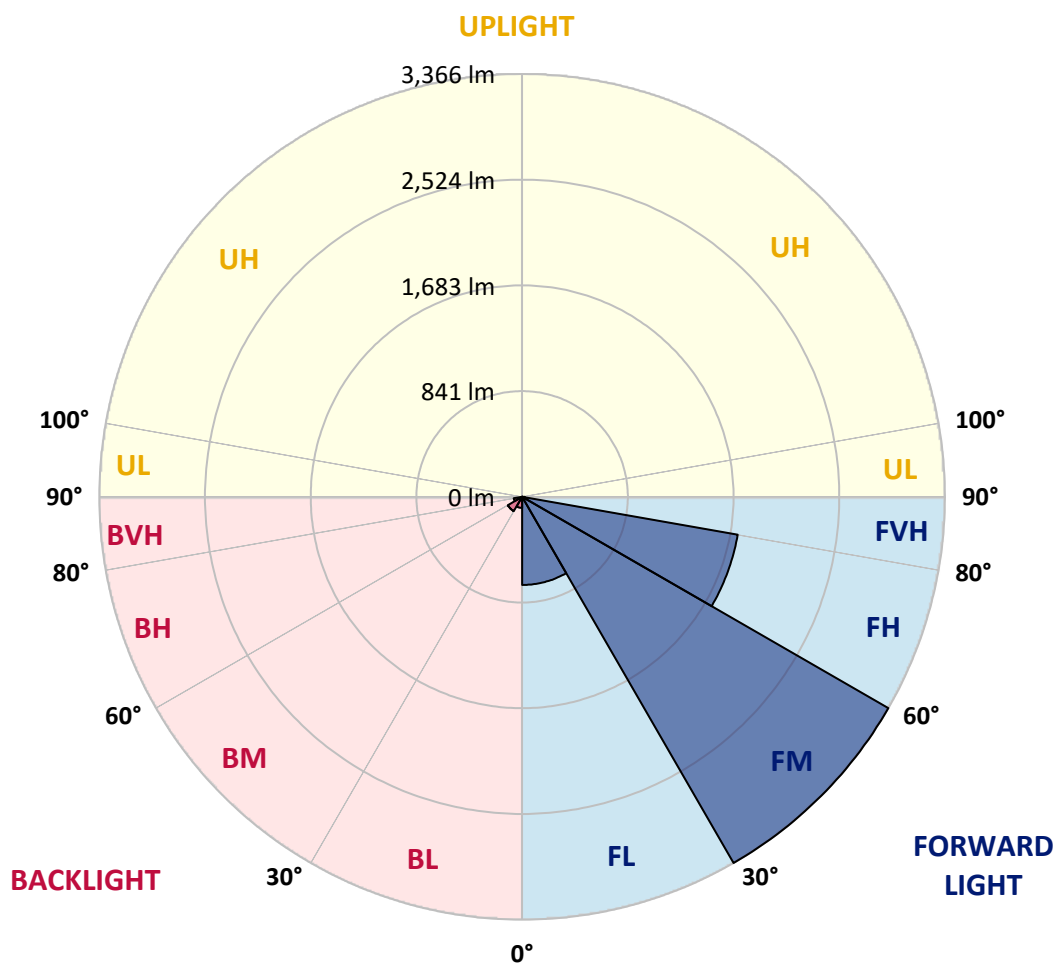
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	701.5	11.5			
FM	(30°-60°)	3365.6	55.0			
FH	(60°-80°)	1741.9	28.5			G1/1800
FVH	(80°-90°)	21.5	0.4			G1/100
BL	(0°-30°)	88.5	1.4	B0/110		
BM	(30°-60°)	131.7	2.2	B0/220		
BH	(60°-80°)	67.9	1.1	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1
2.5°	1119.6	1113.5	1107.4	1084.0	1062.6	1043.2	1006.5	958.6	915.9	906.7	856.8
5°	1315.2	1308.1	1298.9	1275.5	1248.0	1215.4	1161.4	1088.1	1012.7	996.4	903.7
7.5°	1447.7	1441.6	1428.3	1417.1	1389.6	1358.0	1297.9	1212.3	1108.4	1088.1	957.6
10°	1538.4	1534.3	1532.3	1523.1	1502.7	1477.2	1417.1	1327.4	1205.2	1181.8	1014.7
12.5°	1570.9	1570.9	1581.1	1596.4	1599.4	1591.3	1536.3	1446.7	1307.1	1282.6	1081.9
15°	1527.2	1532.3	1554.6	1603.5	1654.5	1688.1	1653.5	1569.9	1419.1	1392.6	1161.4
17.5°	1514.9	1520.0	1535.3	1578.1	1646.3	1736.0	1753.3	1689.1	1525.1	1502.7	1242.9
20°	1549.6	1554.6	1567.9	1604.5	1656.5	1747.2	1819.5	1804.3	1637.2	1613.7	1325.4
22.5°	1632.1	1635.1	1635.1	1663.6	1709.5	1776.7	1861.3	1913.3	1752.3	1726.8	1406.9
25°	1809.4	1803.2	1778.7	1764.5	1794.0	1849.1	1914.3	2009.0	1880.6	1846.0	1494.5
27.5°	2041.6	2062.0	2002.9	1934.6	1912.2	1943.8	1988.7	2093.6	2004.9	1968.2	1574.0
30°	2356.4	2348.2	2270.9	2173.1	2076.3	2065.0	2080.4	2165.9	2129.2	2094.6	1662.6
32.5°	2615.1	2630.5	2549.0	2429.7	2285.1	2216.8	2200.5	2252.5	2261.7	2239.2	1767.5
35°	2881.0	2897.3	2817.9	2685.5	2513.3	2399.2	2352.4	2359.5	2425.7	2397.2	1877.6
37.5°	3119.5	3133.7	3055.3	2919.8	2747.6	2608.0	2540.8	2485.8	2584.6	2559.2	1993.8
40°	3300.8	3302.9	3249.8	3128.6	2965.6	2821.0	2744.6	2636.6	2752.7	2735.4	2115.0
42.5°	3429.1	3433.2	3394.5	3290.6	3139.8	3005.4	2943.2	2814.9	2946.3	2931.0	2255.5
45°	3489.3	3496.4	3492.3	3396.6	3271.2	3155.1	3134.7	3004.4	3158.2	3143.9	2417.5
47.5°	3432.2	3432.2	3484.2	3471.0	3355.8	3278.4	3301.8	3202.0	3388.4	3375.2	2582.6
50°	3194.9	3197.9	3303.9	3455.6	3388.4	3371.1	3444.4	3395.6	3597.3	3605.4	2780.2
52.5°	2571.4	2566.3	2923.9	3215.2	3366.0	3412.9	3575.9	3593.2	3847.9	3872.3	2976.8
55°	1921.4	1918.4	2260.7	2789.4	3209.1	3391.5	3649.2	3769.4	4061.8	4077.1	3123.5
57.5°	1521.0	1512.8	1701.3	2248.4	2854.6	3295.7	3652.3	3803.0	4181.0	4207.5	3266.1
60°	1169.6	1162.4	1303.0	1672.8	2352.4	3041.0	3564.7	3805.1	4296.2	4343.0	3457.6
62.5°	836.4	844.5	952.5	1200.1	1809.4	2681.4	3450.5	3833.6	4500.9	4553.8	3729.7
65°	564.4	560.3	650.0	817.1	1286.7	2197.5	3275.4	3893.7	4869.7	4962.4	4055.7
67.5°	392.2	395.3	436.1	531.8	817.1	1687.1	2983.9	3927.4	5250.7	5323.1	4283.9
70°	283.2	287.3	309.7	357.6	499.2	1144.0	2522.4	3773.5	5353.6	5416.8	4125.0
72.5°	186.4	194.6	228.2	253.7	318.8	716.2	1858.2	3250.9	4910.4	4957.3	3460.8
75°	100.9	102.9	146.7	189.5	227.1	446.2	1108.4	2192.4	3673.7	3658.4	2282.1
77.5°	78.5	81.5	90.7	135.5	152.8	245.5	438.1	990.3	1740.1	1693.2	778.3
80°	47.9	50.0	63.2	80.5	107.0	142.7	128.3	269.0	353.5	331.1	114.1
82.5°	28.5	30.5	37.7	67.3	84.6	67.3	44.8	65.2	66.2	65.2	28.5
85°	5.1	5.1	26.5	46.9	44.8	19.3	26.5	21.4	19.3	20.4	6.1
87.5°	0.0	0.0	10.2	14.3	20.4	7.1	10.2	5.1	5.1	5.1	3.1
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°	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1
2.5°	826.2	791.6	720.3	658.1	595.9	550.1	515.5	479.8	467.6	452.3	444.2
5°	840.5	772.2	630.6	517.6	421.8	348.4	301.5	273.0	254.7	241.5	238.4
7.5°	861.8	756.9	558.3	405.4	300.5	227.1	188.5	169.1	158.9	152.8	150.8
10°	887.4	743.7	486.9	315.8	211.9	160.0	138.6	130.4	126.3	124.3	123.2
12.5°	923.0	738.6	426.9	243.5	160.0	131.4	120.2	115.1	112.0	109.0	108.0
15°	969.9	740.6	371.8	188.5	132.4	117.1	108.0	102.9	98.8	95.8	95.8
17.5°	1018.8	743.7	317.8	152.8	120.2	107.0	96.8	89.7	86.6	83.5	82.5
20°	1064.6	742.7	265.9	130.4	109.0	95.8	85.6	78.5	73.4	70.3	70.3
22.5°	1108.4	736.6	217.0	117.1	99.8	84.6	73.4	66.2	62.2	59.1	59.1
25°	1155.3	724.4	177.3	107.0	88.6	74.4	63.2	56.1	53.0	50.0	50.0
27.5°	1192.0	704.0	144.7	97.8	78.5	64.2	54.0	47.9	44.8	42.8	42.8
30°	1231.7	674.4	120.2	87.6	68.3	55.0	45.8	40.7	37.7	36.6	36.6
32.5°	1275.5	641.8	102.9	77.4	58.1	46.9	38.7	35.6	32.6	31.6	31.6
35°	1326.4	613.3	92.7	67.3	51.0	39.7	33.6	30.5	28.5	28.5	28.5
37.5°	1384.5	583.7	83.5	59.1	43.8	33.6	28.5	27.5	26.5	25.4	25.4
40°	1447.7	552.2	75.4	52.0	37.7	28.5	24.4	24.4	23.4	23.4	23.4
42.5°	1518.9	524.7	68.3	45.8	32.6	24.4	21.4	21.4	20.4	20.4	20.4
45°	1596.4	499.2	62.2	40.7	28.5	21.4	19.3	18.3	17.3	17.3	17.3
47.5°	1688.1	484.9	57.1	35.6	24.4	18.3	16.3	15.3	14.3	13.2	13.2
50°	1805.3	491.0	52.0	29.5	21.4	15.3	13.2	12.2	11.2	10.2	10.2
52.5°	1898.0	488.0	44.8	25.4	17.3	12.2	10.2	9.2	8.1	7.1	7.1
55°	1965.2	475.8	38.7	21.4	13.2	10.2	8.1	6.1	5.1	5.1	5.1
57.5°	2031.4	463.5	32.6	17.3	10.2	7.1	5.1	4.1	4.1	4.1	4.1
60°	2134.3	446.2	28.5	14.3	8.1	5.1	3.1	3.1	2.0	2.0	2.0
62.5°	2259.6	424.9	23.4	12.2	6.1	4.1	2.0	2.0	0.0	0.0	0.0
65°	2397.2	387.1	19.3	9.2	5.1	3.1	2.0	0.0	0.0	0.0	0.0
67.5°	2365.6	310.7	16.3	6.1	4.1	2.0	1.0	0.0	0.0	0.0	0.0
70°	2092.6	209.8	13.2	5.1	3.1	2.0	1.0	0.0	0.0	0.0	0.0
72.5°	1639.2	124.3	9.2	4.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	1049.3	62.2	6.1	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	351.5	30.5	4.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	50.0	10.2	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.2	4.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	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)