

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: P380868

Luminaire Tested: **PRV-PA1A-8540-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1A-8540-U-T2R
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 85 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5954.7 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 54
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



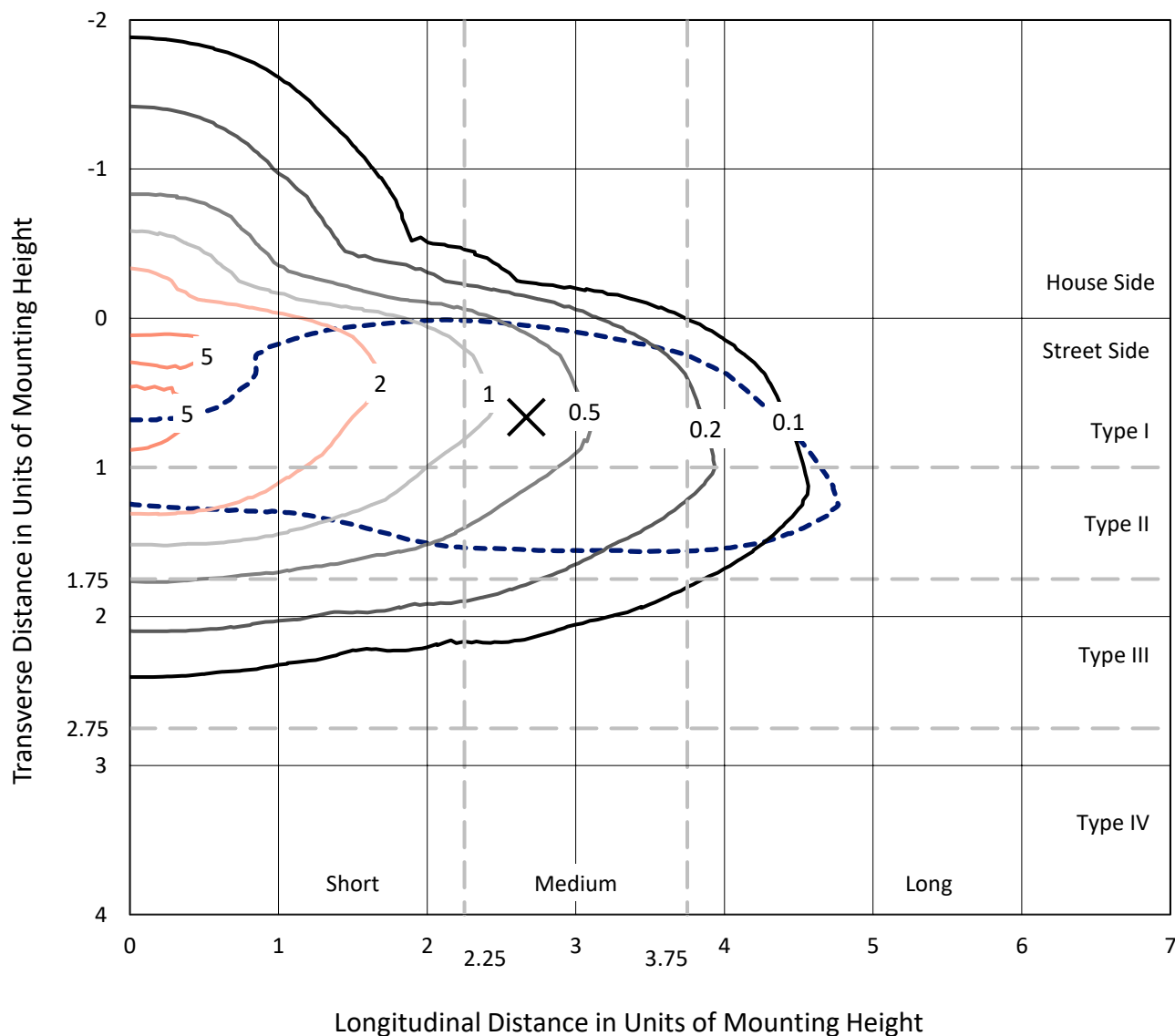
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

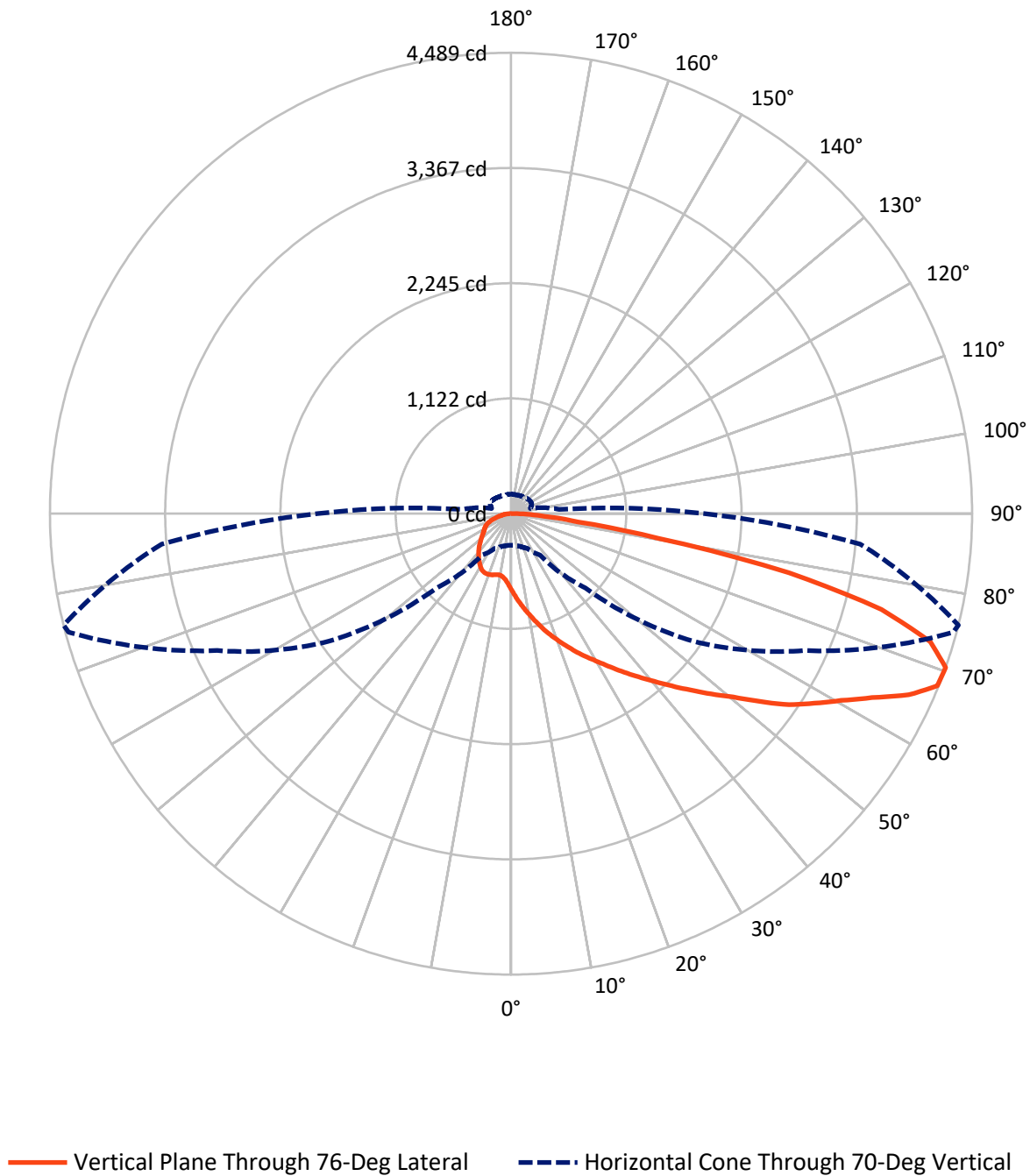


Based on 15 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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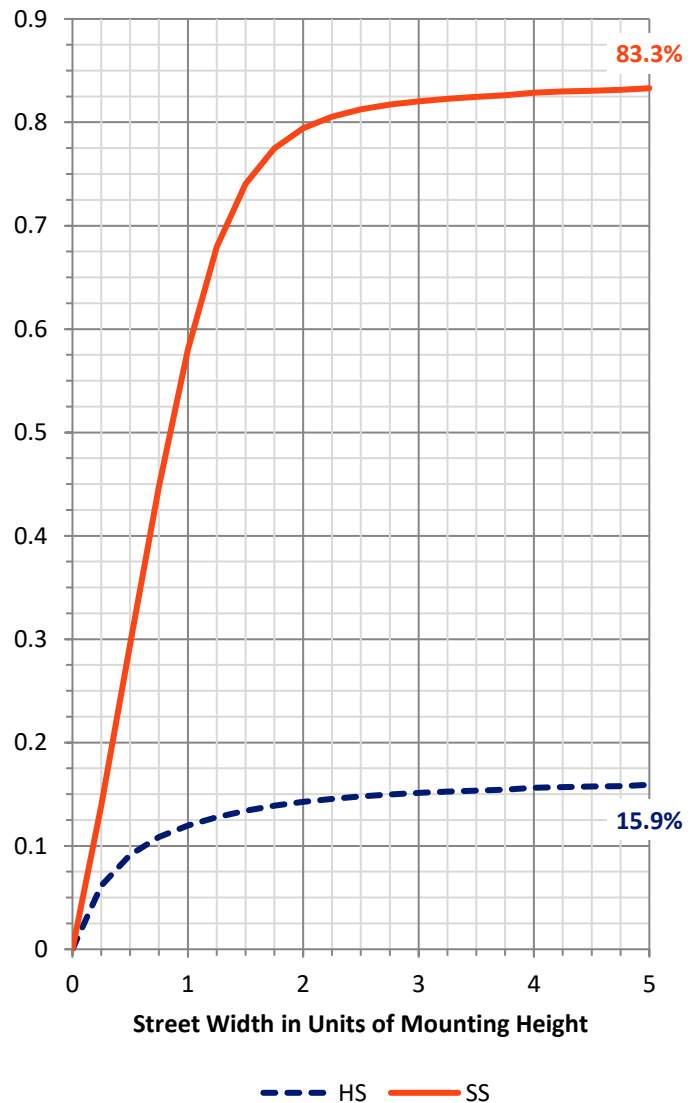
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	972.1	0.0	972.1
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	4982.5	0.0	4982.5
	% Fixture	83.7	0.0	83.7
Total	Lumens	5954.7	0.0	5954.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	1.3
10°-20°	263.0	4.4
20°-30°	470.5	7.9
30°-40°	761.1	12.8
40°-50°	1101.0	18.5
50°-60°	1260.2	21.2
60°-70°	1159.2	19.5
70°-80°	716.8	12.0
80°-90°	145.6	2.4
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°	5954.7	100.0
0°-180°	5954.7	100.0

Coefficient of Utilization



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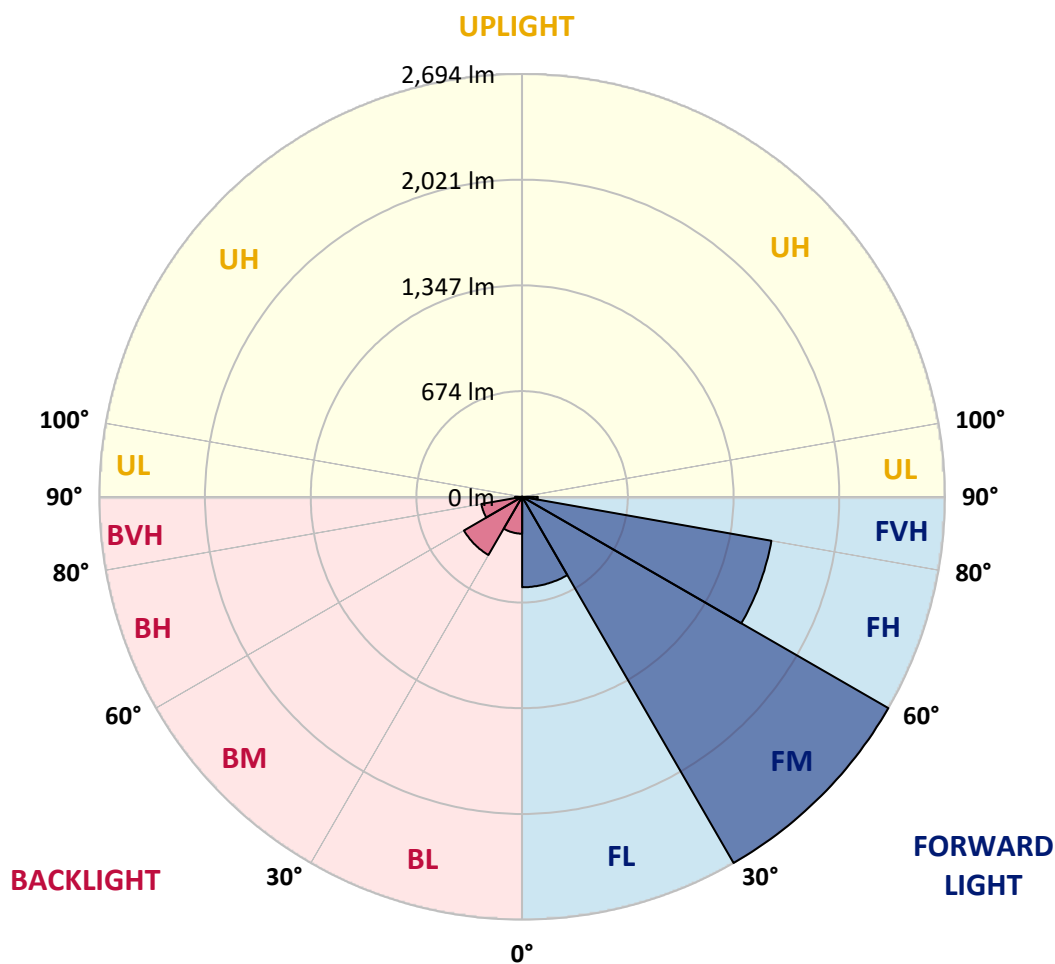
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	576.0	9.7			
FM	(30°-60°)	2694.2	45.2			
FH	(60°-80°)	1612.4	27.1			G1/1800
FVH	(80°-90°)	99.9	1.7			G1/100
BL	(0°-30°)	234.8	3.9	B1/500		
BM	(30°-60°)	428.0	7.2	B1/1000		
BH	(60°-80°)	263.7	4.4	B1/500		G1/500
BVH	(80°-90°)	45.6	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6
2.5°	949.0	941.9	941.2	930.2	920.0	892.6	873.0	838.6	804.1	803.4	768.9
5°	1097.1	1090.0	1086.1	1072.8	1055.6	1019.5	984.2	931.0	872.3	868.3	803.4
7.5°	1197.3	1191.0	1183.2	1177.7	1161.3	1129.2	1086.1	1022.7	941.9	934.1	843.3
10°	1264.6	1260.7	1259.1	1255.2	1245.0	1219.2	1177.7	1110.4	1011.7	1003.1	885.6
12.5°	1293.6	1292.0	1299.1	1310.0	1314.0	1303.8	1263.8	1200.4	1088.4	1079.1	936.5
15°	1259.9	1261.5	1279.5	1317.1	1357.0	1378.9	1355.5	1293.6	1175.4	1162.1	996.1
17.5°	1244.3	1246.6	1259.1	1295.2	1351.5	1419.7	1430.6	1382.1	1259.1	1240.4	1058.7
20°	1271.7	1274.8	1284.2	1312.4	1351.5	1424.4	1481.5	1466.6	1341.4	1321.8	1119.0
22.5°	1341.4	1345.3	1344.5	1362.5	1389.1	1439.2	1509.7	1546.5	1427.5	1405.6	1181.6
25°	1490.1	1487.0	1460.4	1451.8	1458.8	1490.9	1547.3	1623.2	1517.5	1495.6	1247.4
27.5°	1692.1	1688.2	1639.7	1595.8	1556.7	1570.8	1600.5	1685.1	1609.1	1584.1	1310.0
30°	1908.2	1903.6	1847.2	1775.9	1689.0	1668.7	1664.7	1739.1	1701.5	1674.9	1376.6
32.5°	2118.9	2115.0	2054.7	1971.7	1851.9	1790.8	1753.2	1799.4	1806.5	1780.6	1449.4
35°	2310.7	2310.7	2259.0	2160.4	2024.9	1932.5	1870.7	1873.8	1927.0	1897.3	1532.4
37.5°	2481.4	2480.6	2424.2	2327.2	2197.2	2091.5	2014.7	1963.8	2042.1	2016.3	1619.3
40°	2616.9	2611.4	2569.9	2485.3	2354.6	2249.6	2172.1	2069.5	2170.6	2147.1	1711.7
42.5°	2715.5	2712.4	2684.2	2610.6	2486.1	2387.4	2334.2	2202.7	2316.2	2292.7	1819.8
45°	2753.9	2760.2	2760.2	2690.5	2591.8	2501.8	2478.3	2349.1	2473.6	2450.1	1935.7
47.5°	2692.0	2708.5	2742.1	2746.8	2659.9	2598.9	2606.7	2496.3	2635.7	2623.1	2062.5
50°	2498.6	2529.2	2602.8	2735.9	2687.3	2673.2	2716.3	2646.6	2809.5	2805.6	2216.8
52.5°	1999.9	2074.2	2303.7	2542.5	2668.5	2707.7	2825.1	2815.7	3033.5	3039.8	2418.0
55°	1534.0	1562.2	1827.6	2234.0	2553.4	2696.7	2898.0	2981.0	3276.2	3284.1	2602.8
57.5°	1240.4	1259.1	1404.0	1827.6	2291.1	2637.2	2955.1	3077.3	3462.6	3482.9	2767.2
60°	982.7	1010.1	1107.2	1398.5	1923.9	2493.9	2995.1	3184.6	3663.0	3693.6	2963.8
62.5°	730.5	743.8	835.5	1036.0	1523.0	2236.3	2974.0	3301.3	3908.9	3945.7	3200.3
65°	519.9	531.7	596.6	736.8	1126.0	1887.9	2851.0	3388.2	4217.4	4255.0	3438.3
67.5°	389.2	393.8	430.6	515.2	758.7	1466.6	2602.0	3373.3	4442.9	4476.6	3533.8
70°	307.7	309.3	327.3	372.7	493.3	1021.1	2165.9	3154.9	4459.3	4489.1	3413.3
72.5°	255.3	254.5	264.7	286.6	343.7	646.0	1604.4	2749.2	4247.9	4268.3	3076.6
75°	210.6	212.2	219.2	231.8	262.3	426.0	1039.9	2193.3	3747.6	3725.7	2581.6
77.5°	177.0	176.2	179.3	190.3	212.2	306.2	609.2	1584.9	2777.4	2766.4	1694.5
80°	142.5	144.1	148.8	158.2	178.5	233.3	360.2	989.0	1490.1	1450.2	809.6
82.5°	95.5	110.4	119.8	130.8	154.3	172.3	228.6	502.7	666.3	656.2	367.2
85°	45.4	60.3	89.3	101.8	125.3	108.1	155.0	239.6	333.6	329.6	132.3
87.5°	9.4	9.4	47.8	57.2	77.5	46.2	86.1	104.1	161.3	151.1	54.0
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°	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6	744.6
2.5°	748.5	727.4	685.1	651.5	617.0	597.4	573.2	561.4	559.1	552.8	557.5
5°	761.9	720.4	640.5	588.0	552.8	535.6	527.0	523.8	523.0	521.5	521.5
7.5°	779.9	716.4	612.3	559.1	536.4	530.9	533.2	537.9	538.7	540.3	539.5
10°	801.8	717.2	596.6	552.0	541.1	541.8	549.7	555.9	559.1	561.4	560.6
12.5°	832.3	726.6	594.3	556.7	552.0	555.1	563.0	569.2	572.4	573.2	573.2
15°	872.3	746.2	599.8	566.9	563.0	565.3	570.0	572.4	573.2	572.4	572.4
17.5°	916.1	769.7	607.6	573.2	566.9	564.5	563.0	560.6	555.9	552.8	552.8
20°	958.4	790.8	611.5	572.4	561.4	552.0	542.6	530.9	523.0	516.8	516.8
22.5°	1000.8	810.4	611.5	563.8	546.5	528.5	509.0	490.2	478.4	470.6	470.6
25°	1045.4	829.2	606.8	548.9	523.0	497.2	470.6	447.1	435.3	427.5	426.0
27.5°	1083.0	840.2	594.3	527.7	494.1	461.2	430.6	406.4	397.8	390.7	390.7
30°	1122.9	847.2	570.8	500.3	461.2	423.6	392.3	372.7	363.3	353.1	352.4
32.5°	1167.5	851.9	544.2	471.4	427.5	387.6	361.0	345.3	324.9	314.0	312.4
35°	1219.2	858.2	516.0	438.5	393.8	357.8	342.2	316.3	296.8	287.4	286.6
37.5°	1274.0	862.9	485.5	409.5	363.3	338.3	322.6	292.1	274.8	260.7	259.2
40°	1332.0	862.9	454.1	381.3	339.0	329.6	299.9	272.5	243.5	236.5	234.9
42.5°	1396.2	861.3	422.8	353.9	316.3	310.1	286.6	257.6	242.7	236.5	234.9
45°	1464.3	855.8	393.1	322.6	292.8	280.3	262.3	254.5	248.2	248.2	248.2
47.5°	1541.8	851.1	359.4	294.4	275.6	261.5	248.2	243.5	242.7	245.1	247.4
50°	1641.2	849.6	331.2	274.0	262.3	245.9	244.3	240.4	241.2	241.2	241.2
52.5°	1761.8	835.5	304.6	259.2	249.0	229.4	234.1	238.0	239.6	238.8	238.0
55°	1850.3	810.4	281.9	249.0	239.6	223.2	229.4	235.7	237.2	234.9	234.9
57.5°	1930.2	775.2	263.9	241.2	233.3	219.2	226.3	232.6	231.0	230.2	229.4
60°	2021.8	741.5	249.8	237.2	227.1	217.7	223.9	227.9	225.5	223.9	223.2
62.5°	2121.2	708.6	239.6	237.2	222.4	216.9	221.6	223.2	218.5	216.9	216.9
65°	2167.4	656.9	228.6	237.2	220.0	215.3	216.9	215.3	210.6	210.6	209.8
67.5°	2091.5	571.6	214.5	234.1	223.2	213.0	209.8	207.5	202.0	202.0	200.4
70°	1881.6	469.8	194.2	223.9	223.9	212.2	200.4	195.0	188.7	191.1	187.9
72.5°	1607.6	372.7	169.1	206.7	219.2	211.4	190.3	181.7	176.2	178.5	173.8
75°	1302.2	288.9	139.4	179.3	207.5	207.5	180.1	168.3	162.1	162.1	156.6
77.5°	830.0	213.8	113.5	148.8	186.4	202.0	171.5	153.5	144.1	141.7	137.8
80°	411.1	150.3	93.2	118.2	158.9	189.5	165.2	136.2	122.9	118.2	111.2
82.5°	218.5	104.1	74.4	92.4	126.8	170.7	157.4	117.4	101.0	94.0	86.1
85°	97.9	64.2	59.5	70.5	96.3	140.2	141.7	96.3	77.5	92.4	68.1
87.5°	36.0	29.0	29.0	36.0	55.6	58.7	100.2	61.9	49.3	33.7	26.6
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)