

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: P511244

Luminaire Tested: **PRV-P-PA1C-8540-U-T3**

Issue Date: 4/7/2021

Test Information

Test Method: LM-79-08
Report Number: P511244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-171-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/7/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-P-PA1C-8540-U-T3
Description: PREVAIL AREA AND WALL LUMINAIRE
(1) 85 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7332 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1.04' x L: 0.58' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 72.1
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

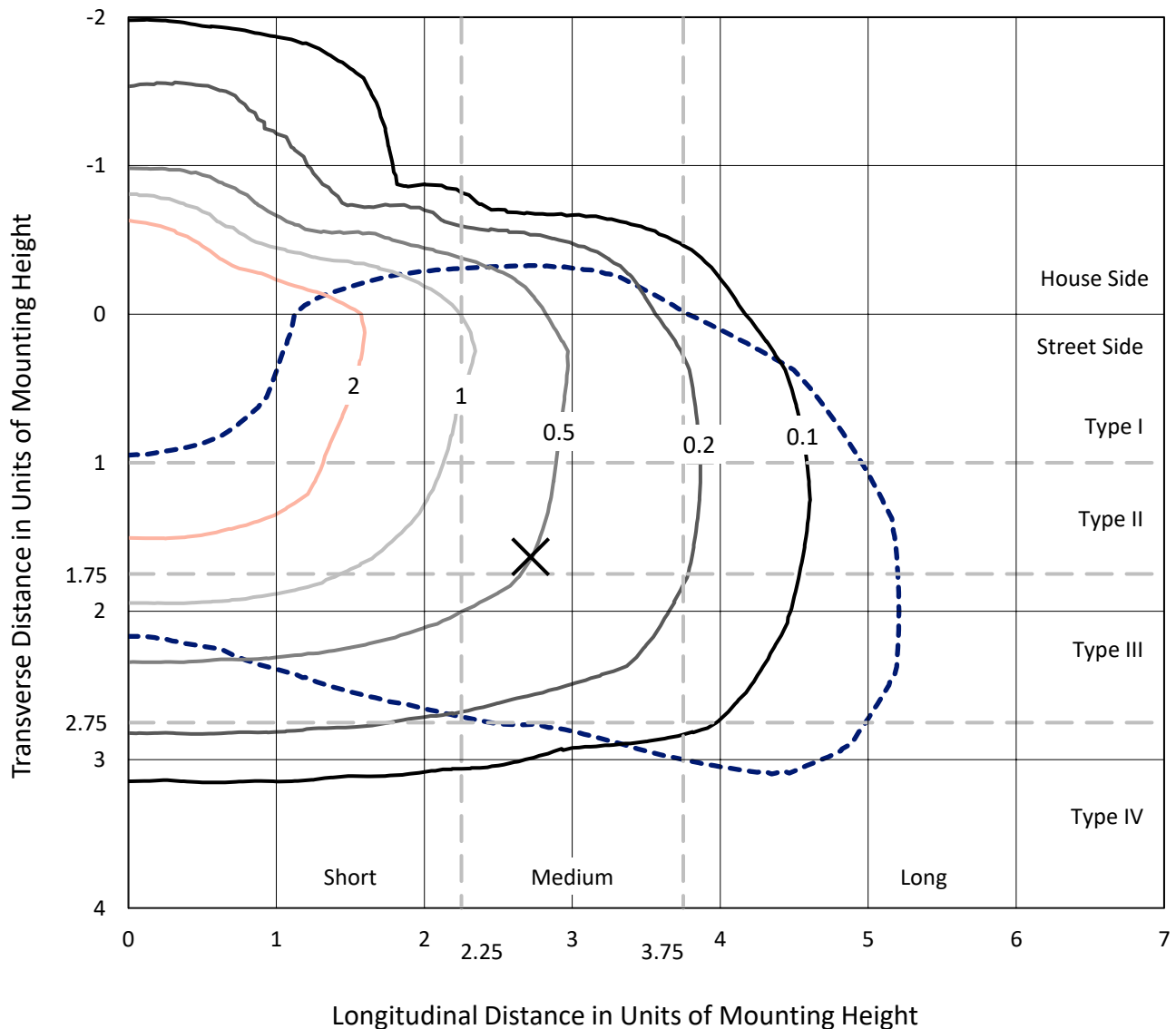


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

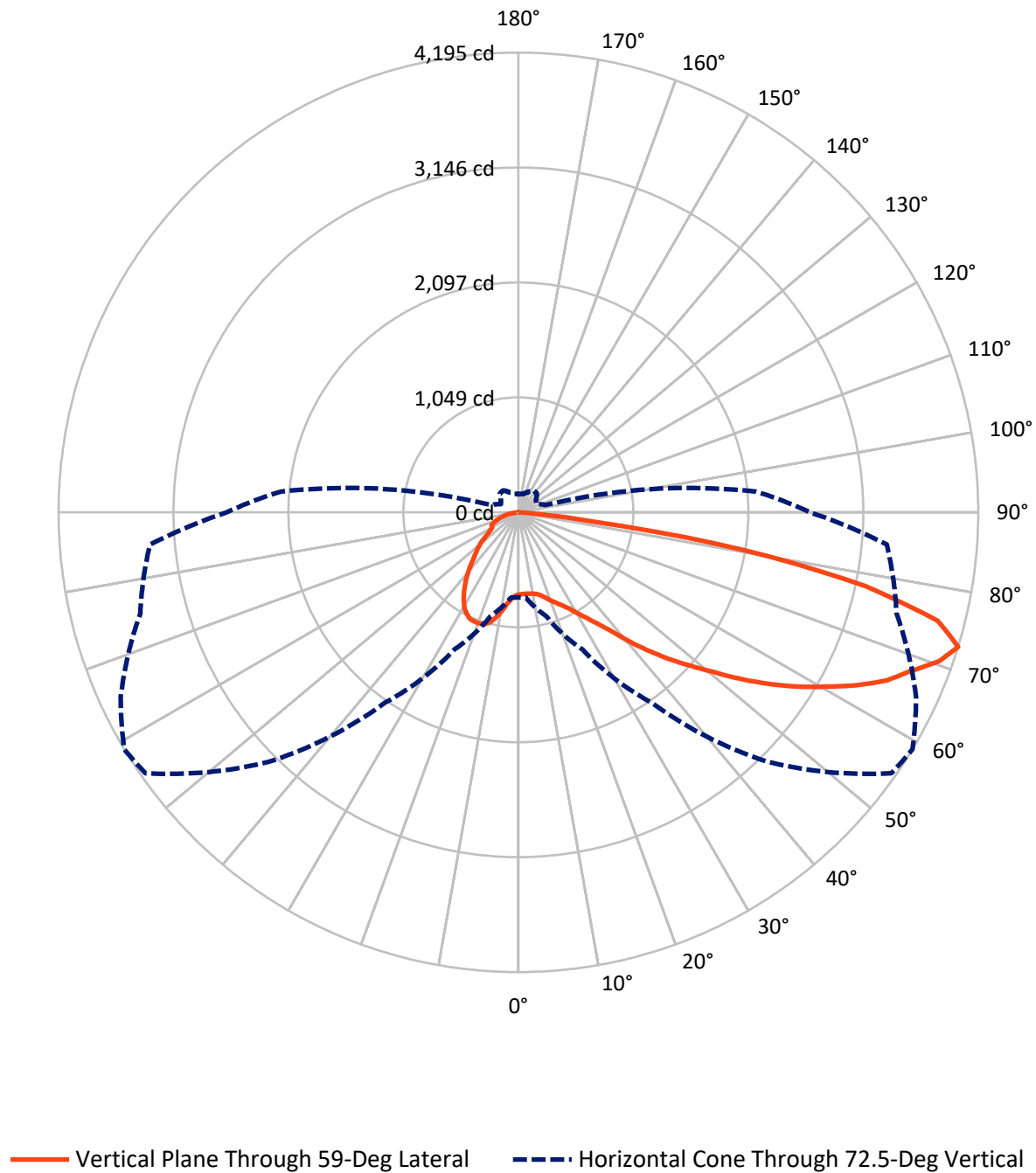


Based on 15 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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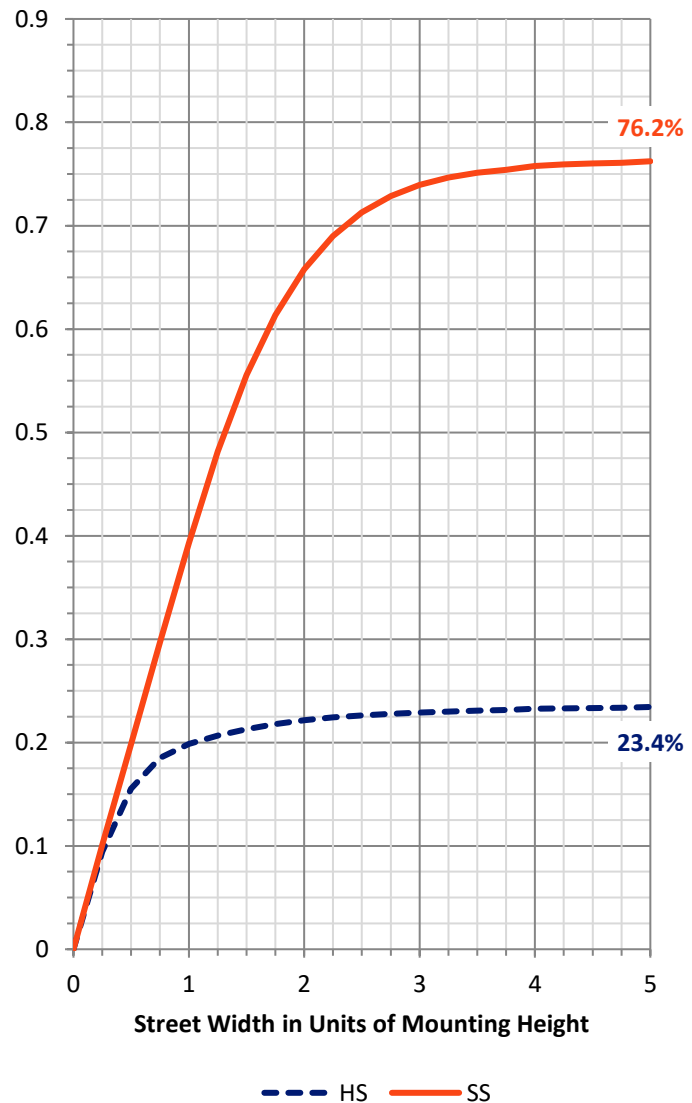
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1734.5	0.0	1734.5
	% Fixture	23.7	0.0	23.7
Street Side	Lumens	5597.5	0.0	5597.5
	% Fixture	76.3	0.0	76.3
Total	Lumens	7332.0	0.0	7332.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	1.0
10°-20°	247.4	3.4
20°-30°	456.9	6.2
30°-40°	695.2	9.5
40°-50°	1047.6	14.3
50°-60°	1556.5	21.2
60°-70°	1852.5	25.3
70°-80°	1253.8	17.1
80°-90°	147.0	2.0
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°	7332.0	100.0
0°-180°	7332.0	100.0

Coefficient of Utilization



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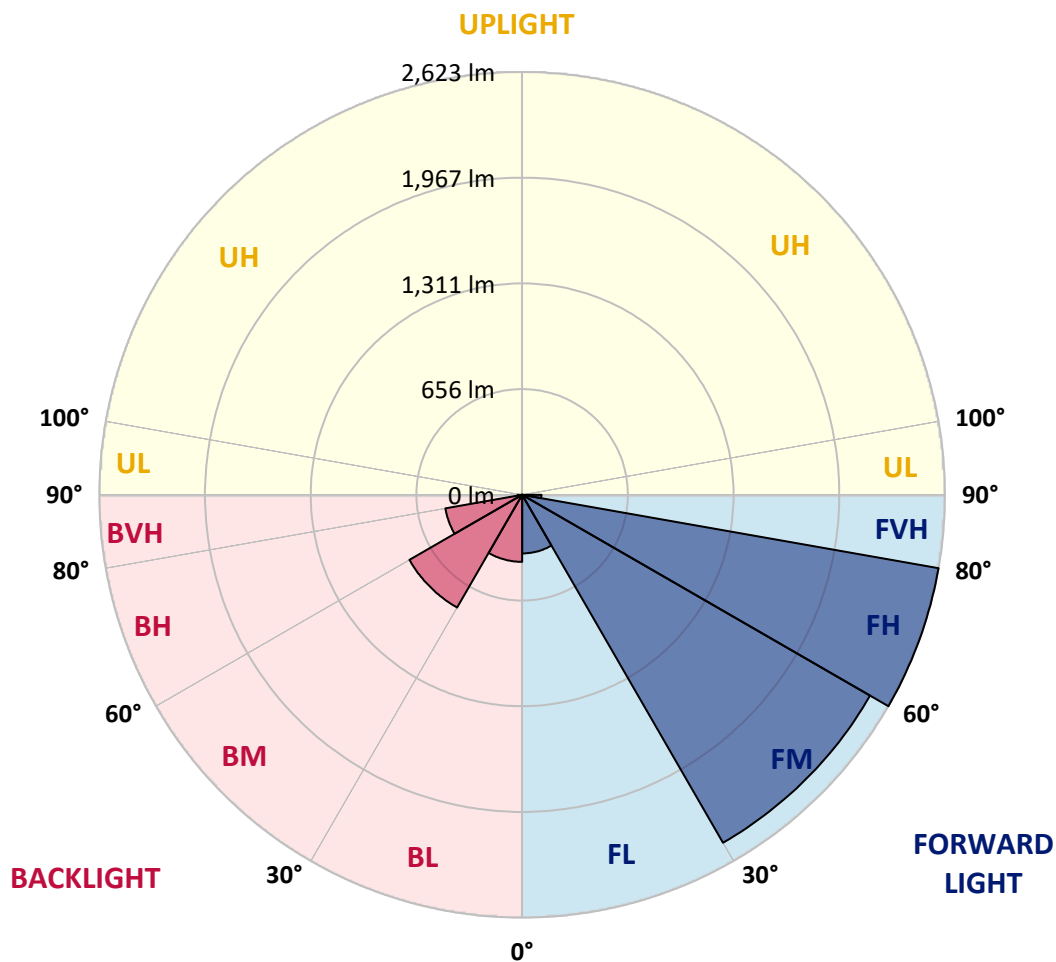
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	363.4	5.0			
FM	(30°-60°)	2492.0	34.0			
FH	(60°-80°)	2622.7	35.8			G2/5000
FVH	(80°-90°)	119.5	1.6			G2/225
BL	(0°-30°)	416.0	5.7	B1/500		
BM	(30°-60°)	807.4	11.0	B1/1000		
BH	(60°-80°)	483.6	6.6	B1/500		G1/500
BVH	(80°-90°)	27.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9
2.5°	742.6	745.9	744.2	744.2	745.9	745.9	749.3	745.9	750.9	749.3	747.5
5°	712.9	711.3	714.6	719.5	726.1	737.7	744.2	745.9	749.3	754.2	754.2
7.5°	656.8	658.4	665.1	676.6	694.8	721.1	747.5	749.3	759.1	770.7	777.3
10°	643.6	645.3	648.6	665.1	683.2	712.9	747.5	755.8	774.0	792.2	808.6
12.5°	637.0	640.3	643.6	663.4	689.8	719.5	755.8	765.7	792.2	821.8	846.6
15°	642.0	643.6	648.6	665.1	693.1	732.7	772.4	788.8	815.3	853.2	884.6
17.5°	661.7	661.7	658.4	673.3	698.0	747.5	798.7	821.8	849.9	889.5	929.1
20°	709.6	709.6	703.0	694.8	711.3	760.8	831.7	861.5	894.4	935.7	973.7
22.5°	808.6	807.0	787.1	757.5	750.9	785.5	866.4	899.4	944.0	986.8	1019.9
25°	953.9	953.9	919.2	869.7	835.0	831.7	902.7	944.0	1000.0	1041.3	1062.8
27.5°	1120.6	1113.9	1067.7	1011.6	945.6	909.3	958.8	996.8	1061.1	1102.4	1107.3
30°	1250.9	1257.5	1214.6	1137.0	1059.5	1011.6	1029.7	1071.0	1140.4	1171.7	1160.1
32.5°	1411.0	1394.4	1358.2	1285.5	1196.4	1128.8	1125.5	1150.2	1209.7	1247.6	1216.2
35°	1518.2	1513.3	1488.6	1424.2	1330.1	1259.1	1222.8	1250.9	1307.0	1325.1	1287.2
37.5°	1630.4	1633.7	1617.3	1557.9	1478.6	1382.9	1356.5	1371.3	1429.1	1439.0	1389.5
40°	1783.9	1787.2	1777.3	1717.9	1620.6	1547.9	1524.8	1539.7	1592.5	1590.8	1516.6
42.5°	1977.0	1978.6	1983.6	1894.5	1790.6	1719.5	1704.7	1714.6	1774.0	1754.2	1675.0
45°	2226.2	2214.6	2219.6	2133.8	2008.4	1930.8	1906.1	1899.5	1940.7	1940.7	1854.8
47.5°	2415.9	2424.2	2435.8	2376.4	2269.1	2203.1	2107.4	2082.6	2120.6	2132.1	2044.6
50°	2582.6	2607.4	2600.8	2615.7	2528.2	2501.8	2333.5	2280.6	2328.5	2335.1	2252.6
52.5°	2689.9	2736.1	2744.3	2800.5	2823.6	2858.3	2564.5	2518.3	2538.1	2539.7	2472.1
55°	2688.3	2726.2	2820.3	2949.0	3069.4	3160.3	2813.7	2760.9	2759.2	2759.2	2713.0
57.5°	2640.4	2665.2	2840.1	3005.1	3236.1	3381.4	3067.8	3000.1	2972.1	2975.4	2970.5
60°	2508.4	2551.3	2793.9	3020.0	3364.9	3529.9	3274.1	3229.6	3204.8	3153.6	3275.8
62.5°	2384.6	2397.9	2622.3	2982.0	3386.3	3594.3	3513.4	3472.1	3444.1	3343.4	3521.6
65°	2125.5	2133.8	2346.7	2775.7	3307.1	3635.5	3718.0	3694.9	3635.5	3518.3	3724.7
67.5°	1760.8	1787.2	1965.5	2460.5	3095.9	3653.6	3879.8	3863.2	3789.0	3595.9	3815.4
70°	1300.4	1321.9	1541.3	1981.9	2731.2	3558.0	4087.7	4069.6	3917.7	3632.2	3709.8
72.5°	775.6	780.6	978.6	1379.6	2119.0	3219.6	4152.0	4194.9	4003.5	3571.2	3373.1
75°	316.9	297.1	386.2	663.4	1295.5	2381.3	3853.4	3952.3	3907.8	3346.7	2785.6
77.5°	148.5	146.9	196.4	341.6	547.9	1226.2	3105.8	3237.8	3312.1	2878.1	2113.9
80°	84.2	85.8	112.2	173.3	313.5	328.4	1851.6	2092.5	2127.2	1836.8	1216.2
82.5°	69.3	69.3	75.9	95.7	176.6	146.9	336.7	665.1	945.6	833.3	438.9
85°	26.4	28.0	33.0	39.6	82.5	56.1	72.6	100.7	168.3	234.4	39.6
87.5°	1.6	1.6	1.6	3.3	3.3	4.9	6.6	8.2	6.6	8.2	6.6
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°	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9
2.5°	752.5	754.2	755.8	757.5	760.8	765.7	769.0	769.0	772.4	777.3	778.9
5°	757.5	762.4	769.0	778.9	792.2	805.3	820.2	828.4	835.0	841.6	841.6
7.5°	780.6	787.1	805.3	825.1	851.5	873.0	886.2	902.7	910.9	917.5	917.5
10°	820.2	826.8	859.8	894.4	924.2	948.9	955.5	960.4	967.1	973.7	965.4
12.5°	856.4	879.6	917.5	955.5	995.1	1003.3	993.5	967.1	953.9	952.2	945.6
15°	899.4	927.5	980.2	1018.2	1049.5	1023.1	968.7	962.1	968.7	981.9	983.5
17.5°	948.9	970.4	1031.4	1077.6	1062.8	1003.3	1001.7	1001.7	1005.0	1006.6	1001.7
20°	988.5	1024.8	1090.8	1117.2	1046.2	1024.8	1013.3	1000.0	995.1	995.1	993.5
22.5°	1036.4	1066.1	1137.0	1120.6	1043.0	1023.1	995.1	978.6	978.6	986.8	983.5
25°	1077.6	1120.6	1183.3	1107.3	1041.3	995.1	963.7	957.1	960.4	973.7	970.4
27.5°	1118.9	1168.4	1209.7	1090.8	1003.3	945.6	925.8	924.2	907.7	910.9	907.7
30°	1175.0	1214.6	1211.3	1084.2	944.0	896.1	876.3	828.4	803.7	816.9	816.9
32.5°	1221.2	1264.1	1198.1	1033.1	879.6	848.2	772.4	724.4	716.2	724.4	734.4
35°	1292.2	1328.4	1189.8	963.7	813.5	757.5	665.1	633.7	625.5	630.4	635.3
37.5°	1392.8	1406.0	1221.2	876.3	754.2	642.0	576.0	552.8	531.3	511.6	518.2
40°	1519.9	1505.0	1257.5	810.2	673.3	546.2	509.9	481.9	442.2	412.6	410.9
42.5°	1660.2	1597.5	1260.8	754.2	580.9	481.9	448.9	414.2	372.9	340.0	336.7
45°	1823.5	1719.5	1234.4	704.6	491.8	437.3	401.0	359.8	320.2	293.8	295.4
47.5°	2016.6	1846.6	1198.1	648.6	437.3	396.0	354.8	318.5	287.1	265.7	267.3
50°	2224.6	1968.8	1156.8	582.6	392.8	354.8	318.5	288.8	264.0	249.2	247.5
52.5°	2449.0	2107.4	1138.6	500.0	353.1	325.1	293.8	272.3	249.2	227.7	222.8
55°	2693.2	2237.7	1150.2	402.7	315.2	298.7	280.5	254.2	254.2	247.5	242.6
57.5°	2914.3	2364.8	1194.8	340.0	285.5	288.8	277.3	305.3	313.5	303.6	298.7
60°	3119.0	2495.2	1193.1	293.8	270.6	313.5	349.8	340.0	292.1	272.3	265.7
62.5°	3259.2	2605.7	1057.8	260.7	282.2	374.6	359.8	302.0	259.1	250.9	245.9
65°	3348.3	2655.2	793.8	242.6	292.1	353.1	321.8	269.0	239.3	240.9	239.3
67.5°	3308.7	2617.3	539.6	217.8	259.1	303.6	292.1	247.5	217.8	231.1	226.1
70°	3087.6	2477.0	354.8	198.0	229.4	272.3	269.0	224.4	198.0	203.0	196.4
72.5°	2658.6	2173.4	255.8	174.9	194.7	237.6	244.2	203.0	173.3	170.0	165.1
75°	2127.2	1676.6	188.2	151.8	161.7	199.7	214.5	178.2	151.8	143.6	140.2
77.5°	1529.7	1085.9	143.6	125.4	130.4	163.4	186.5	148.5	122.1	112.2	108.9
80°	844.9	526.4	107.3	97.3	94.0	122.1	136.9	123.8	94.0	87.5	84.2
82.5°	295.4	156.8	74.2	62.7	59.4	85.8	99.0	90.7	64.4	54.5	56.1
85°	34.7	44.6	31.3	29.7	26.4	34.7	44.6	34.7	19.8	18.2	18.2
87.5°	4.9	4.9	4.9	3.3	3.3	1.6	1.6	1.6	1.6	1.6	1.6
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)