

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: P380869

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380869
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-PA1B-8540-U-T2R
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 85 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7748.6 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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



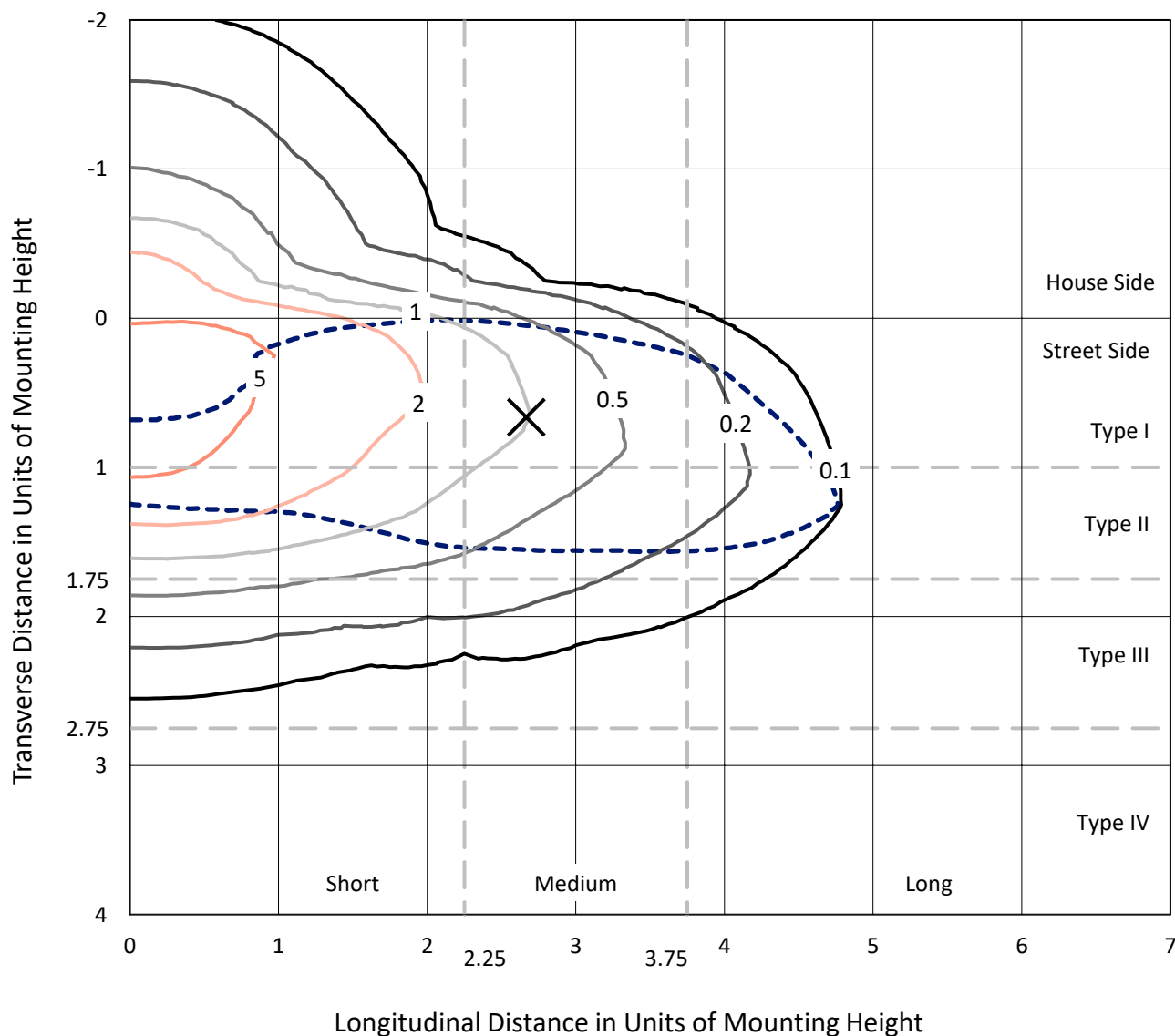
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

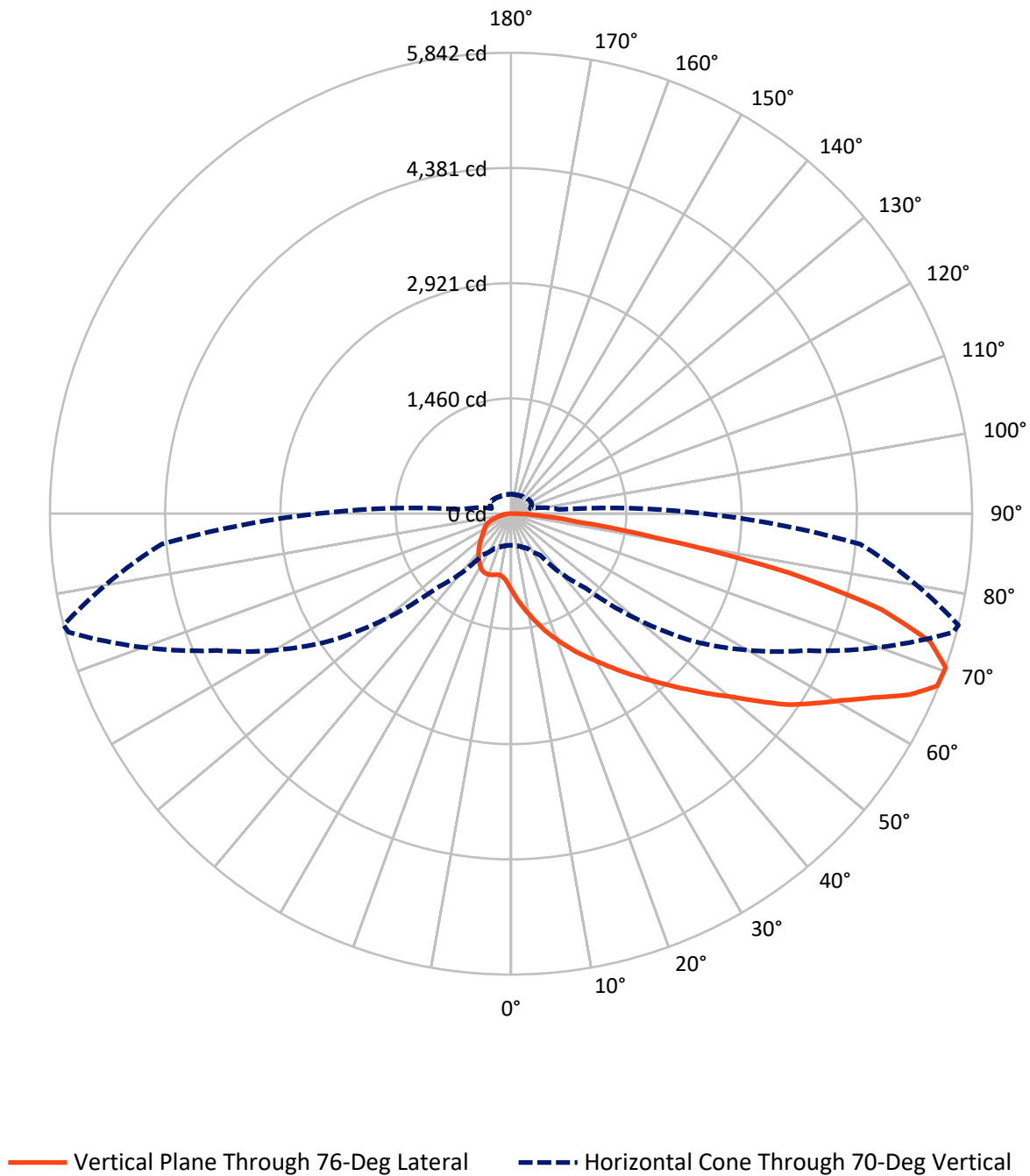


Based on 15 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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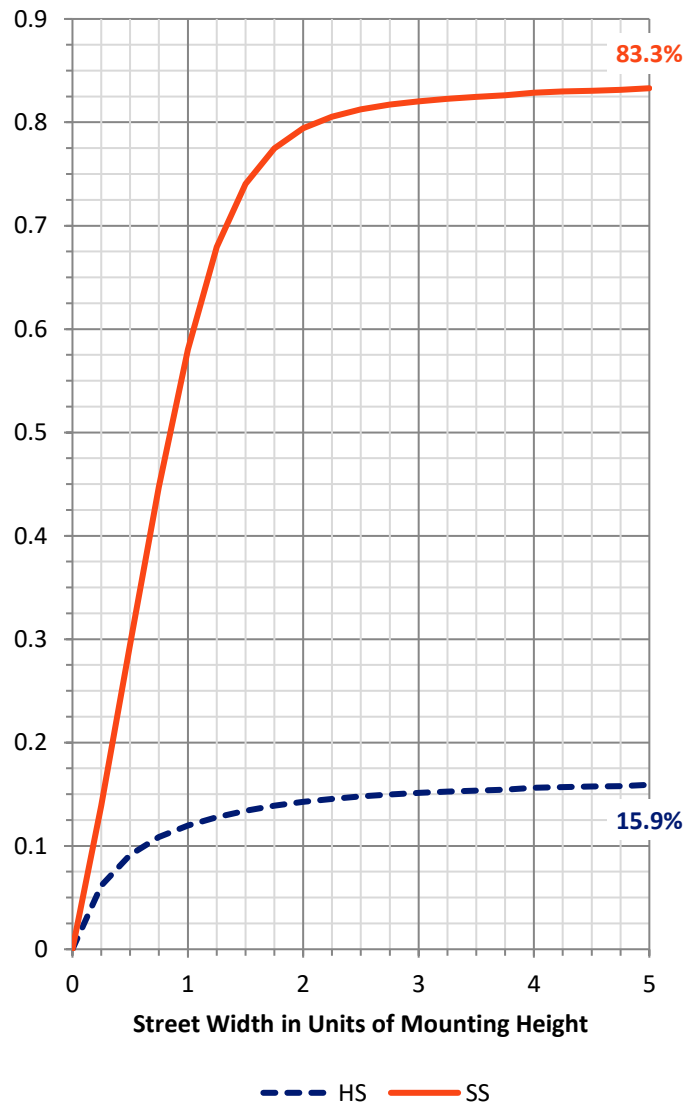
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1265.0	0.0	1265.0
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	6483.5	0.0	6483.5
	% Fixture	83.7	0.0	83.7
Total	Lumens	7748.6	0.0	7748.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	1.3
10°-20°	342.2	4.4
20°-30°	612.2	7.9
30°-40°	990.4	12.8
40°-50°	1432.7	18.5
50°-60°	1639.8	21.2
60°-70°	1508.4	19.5
70°-80°	932.8	12.0
80°-90°	189.4	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°	7748.6	100.0
0°-180°	7748.6	100.0

Coefficient of Utilization



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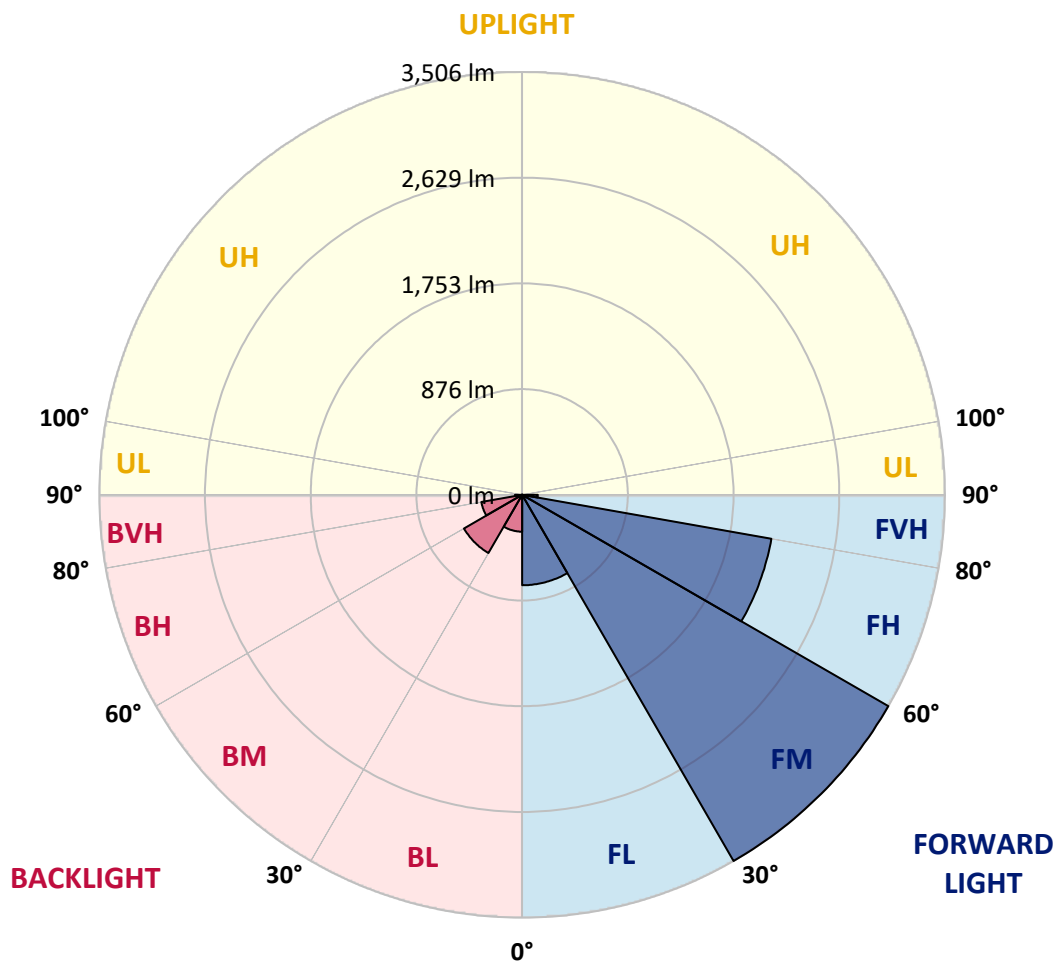
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	749.5	9.7			
FM	(30°-60°)	3505.9	45.2			
FH	(60°-80°)	2098.1	27.1			G2/5000
FVH	(80°-90°)	130.0	1.7			G2/225
BL	(0°-30°)	305.5	3.9	B1/500		
BM	(30°-60°)	557.0	7.2	B1/1000		
BH	(60°-80°)	343.1	4.4	B1/500		G1/500
BVH	(80°-90°)	59.4	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	969.0	969.0	969.0	969.0	969.0	969.0	969.0	969.0	969.0	969.0	969.0
2.5°	1234.9	1225.8	1224.8	1210.4	1197.2	1161.6	1136.1	1091.3	1046.4	1045.4	1000.6
5°	1427.5	1418.3	1413.2	1395.9	1373.5	1326.6	1280.8	1211.5	1135.0	1129.9	1045.4
7.5°	1557.9	1549.8	1539.6	1532.5	1511.0	1469.3	1413.2	1330.7	1225.8	1215.6	1097.4
10°	1645.6	1640.5	1638.4	1633.3	1620.1	1586.4	1532.5	1444.8	1316.5	1305.3	1152.4
12.5°	1683.2	1681.2	1690.4	1704.7	1709.8	1696.5	1644.5	1562.0	1416.3	1404.1	1218.7
15°	1639.4	1641.5	1664.9	1713.8	1765.8	1794.3	1763.8	1683.2	1529.4	1512.1	1296.1
17.5°	1619.1	1622.1	1638.4	1685.3	1758.6	1847.3	1861.6	1798.4	1638.4	1614.0	1377.6
20°	1654.7	1658.8	1671.0	1707.7	1758.6	1853.4	1927.8	1908.4	1745.4	1719.9	1456.1
22.5°	1745.4	1750.5	1749.5	1772.9	1807.6	1872.8	1964.5	2012.4	1857.5	1828.9	1537.6
25°	1939.0	1934.9	1900.3	1889.1	1898.2	1940.0	2013.4	2112.2	1974.6	1946.1	1623.2
27.5°	2201.9	2196.8	2133.6	2076.6	2025.6	2043.9	2082.7	2192.7	2093.9	2061.2	1704.7
30°	2483.1	2477.0	2403.7	2310.9	2197.8	2171.3	2166.2	2263.0	2214.1	2179.5	1791.3
32.5°	2757.2	2752.1	2673.6	2565.7	2409.8	2330.3	2281.3	2341.5	2350.6	2317.1	1886.0
35°	3006.8	3006.8	2939.6	2811.2	2635.0	2514.7	2434.2	2438.3	2507.6	2468.9	1994.0
37.5°	3228.9	3227.9	3154.6	3028.3	2859.1	2721.6	2621.6	2555.5	2657.3	2623.7	2107.1
40°	3405.2	3398.1	3344.1	3234.0	3063.9	2927.3	2826.5	2693.0	2824.4	2793.9	2227.3
42.5°	3533.6	3529.5	3492.9	3397.0	3235.0	3106.7	3037.4	2866.2	3013.9	2983.4	2367.9
45°	3583.6	3591.7	3591.7	3501.0	3372.6	3255.5	3224.9	3056.8	3218.8	3188.2	2518.8
47.5°	3503.1	3524.4	3568.3	3574.4	3461.3	3381.8	3392.0	3248.3	3429.7	3413.4	2683.8
50°	3251.4	3291.1	3386.9	3560.1	3497.0	3478.6	3534.6	3443.9	3655.9	3650.8	2884.6
52.5°	2602.3	2699.1	2997.6	3308.4	3472.4	3523.4	3676.3	3664.0	3947.3	3955.5	3146.4
55°	1996.0	2032.7	2378.1	2907.0	3322.7	3509.2	3771.0	3879.1	4263.1	4273.4	3386.9
57.5°	1614.0	1638.4	1826.9	2378.1	2981.4	3431.7	3845.4	4004.3	4505.7	4532.2	3600.9
60°	1278.7	1314.4	1440.7	1819.8	2503.5	3245.2	3897.4	4143.9	4766.5	4806.2	3856.6
62.5°	950.6	967.9	1087.2	1348.0	1981.8	2910.0	3869.8	4295.8	5086.4	5134.4	4164.3
65°	676.6	691.9	776.4	958.8	1465.2	2456.6	3709.9	4408.8	5487.9	5536.8	4474.1
67.5°	506.4	512.6	560.4	670.5	987.4	1908.4	3385.8	4389.5	5781.4	5825.1	4598.4
70°	400.4	402.5	425.9	485.0	641.9	1328.7	2818.3	4105.2	5802.7	5841.5	4441.5
72.5°	332.1	331.1	344.4	372.9	447.3	840.6	2087.8	3577.4	5527.7	5554.1	4003.3
75°	274.0	276.2	285.3	301.6	341.3	554.3	1353.1	2854.0	4876.5	4848.0	3359.4
77.5°	230.3	229.3	233.3	247.6	276.2	398.4	792.7	2062.3	3614.1	3599.8	2204.9
80°	185.4	187.5	193.6	205.9	232.3	303.6	468.7	1286.9	1939.0	1887.0	1053.5
82.5°	124.3	143.7	155.9	170.1	200.8	224.2	297.5	654.1	867.1	853.9	477.9
85°	59.1	78.5	116.1	132.5	163.0	140.6	201.8	311.8	434.1	428.9	172.2
87.5°	12.2	12.2	62.2	74.4	100.9	60.1	112.0	135.5	209.9	196.7	70.3
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°	969.0	969.0	969.0	969.0	969.0	969.0	969.0	969.0	969.0	969.0	969.0
2.5°	974.1	946.6	891.5	847.8	802.9	777.4	745.9	730.5	727.5	719.3	725.4
5°	991.4	937.4	833.5	765.2	719.3	696.9	685.8	681.7	680.7	678.6	678.6
7.5°	1014.8	932.3	796.8	727.5	698.0	690.8	693.9	700.0	701.0	703.1	702.0
10°	1043.3	933.3	776.4	718.3	704.1	705.1	715.3	723.4	727.5	730.5	729.5
12.5°	1083.1	945.6	773.4	724.4	718.3	722.4	732.6	740.7	744.9	745.9	745.9
15°	1135.0	971.0	780.5	737.7	732.6	735.6	741.7	744.9	745.9	744.9	744.9
17.5°	1192.1	1001.6	790.7	745.9	737.7	734.6	732.6	729.5	723.4	719.3	719.3
20°	1247.2	1029.1	795.8	744.9	730.5	718.3	706.1	690.8	680.7	672.5	672.5
22.5°	1302.2	1054.5	795.8	733.6	711.2	687.8	662.3	637.8	622.6	612.4	612.4
25°	1360.2	1079.1	789.7	714.3	680.7	647.0	612.4	581.8	566.5	556.3	554.3
27.5°	1409.2	1093.3	773.4	686.8	642.9	600.2	560.4	528.8	517.6	508.4	508.4
30°	1461.2	1102.5	742.8	651.1	600.2	551.2	510.5	485.0	472.8	459.5	458.5
32.5°	1519.2	1108.6	708.1	613.4	556.3	504.3	469.7	449.4	422.8	408.6	406.5
35°	1586.4	1116.7	671.5	570.6	512.6	465.7	445.3	411.6	386.2	374.0	372.9
37.5°	1657.8	1122.8	631.7	532.9	472.8	440.2	419.8	380.1	357.7	339.3	337.2
40°	1733.2	1122.8	591.0	496.2	441.2	428.9	390.2	354.6	316.9	307.7	305.7
42.5°	1816.7	1120.8	550.2	460.6	411.6	403.5	372.9	335.2	315.9	307.7	305.7
45°	1905.4	1113.7	511.5	419.8	381.1	364.8	341.3	331.1	323.0	323.0	323.0
47.5°	2006.3	1107.6	467.7	383.1	358.7	340.3	323.0	316.9	315.9	318.9	322.0
50°	2135.6	1105.5	431.0	356.7	341.3	319.9	317.9	312.8	313.8	313.8	313.8
52.5°	2292.5	1087.2	396.4	337.2	324.0	298.6	304.7	309.8	311.8	310.8	309.8
55°	2407.7	1054.5	366.8	324.0	311.8	290.4	298.6	306.7	308.7	305.7	305.7
57.5°	2511.6	1008.7	343.3	313.8	303.6	285.3	294.5	302.6	300.6	299.6	298.6
60°	2630.9	964.9	325.0	308.7	295.5	283.3	291.4	296.5	293.5	291.4	290.4
62.5°	2760.2	922.1	311.8	308.7	289.4	282.3	288.4	290.4	284.3	282.3	282.3
65°	2820.4	854.9	297.5	308.7	286.3	280.2	282.3	280.2	274.0	274.0	273.0
67.5°	2721.6	743.8	279.2	304.7	290.4	277.2	273.0	270.0	262.9	262.9	260.8
70°	2448.4	611.4	252.7	291.4	291.4	276.2	260.8	253.7	245.5	248.6	244.5
72.5°	2091.9	485.0	220.1	269.0	285.3	275.1	247.6	236.4	229.3	232.3	226.2
75°	1694.5	376.0	181.3	233.3	270.0	270.0	234.4	219.1	210.9	210.9	203.8
77.5°	1080.1	278.2	147.8	193.6	242.5	262.9	223.2	199.7	187.5	184.4	179.3
80°	534.9	195.6	121.3	153.9	206.9	246.6	215.0	177.3	160.0	153.9	144.7
82.5°	284.3	135.5	96.8	120.3	165.1	222.1	204.8	152.8	131.5	122.3	112.0
85°	127.4	83.5	77.4	91.7	125.4	182.4	184.4	125.4	100.9	120.3	88.6
87.5°	46.9	37.7	37.7	46.9	72.3	76.4	130.4	80.5	64.2	43.8	34.6
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)