

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: P380935

Luminaire Tested: **PRV-PA2B-8540-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2B-8540-U-T3
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 85 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15399.3 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 151
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

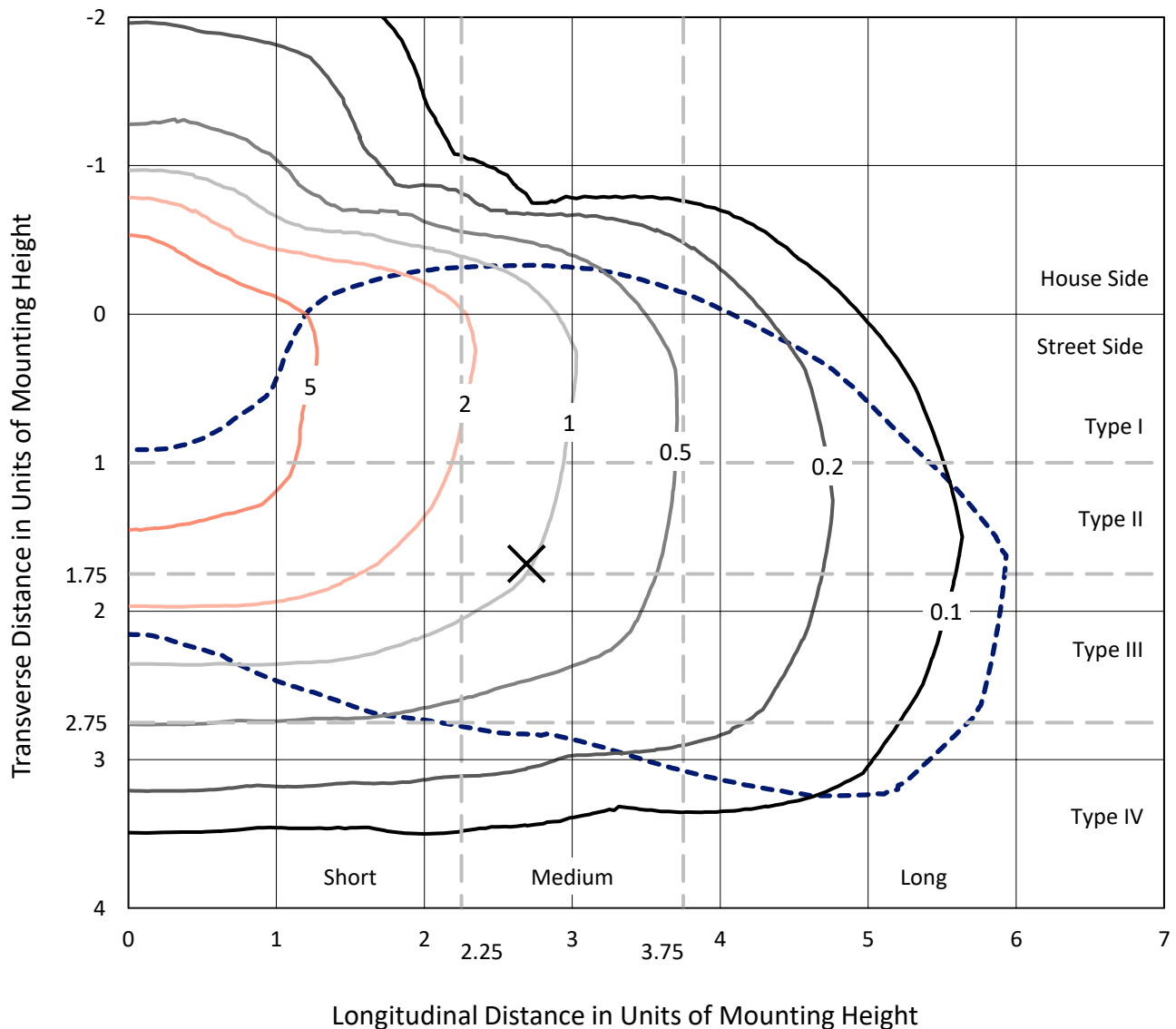


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

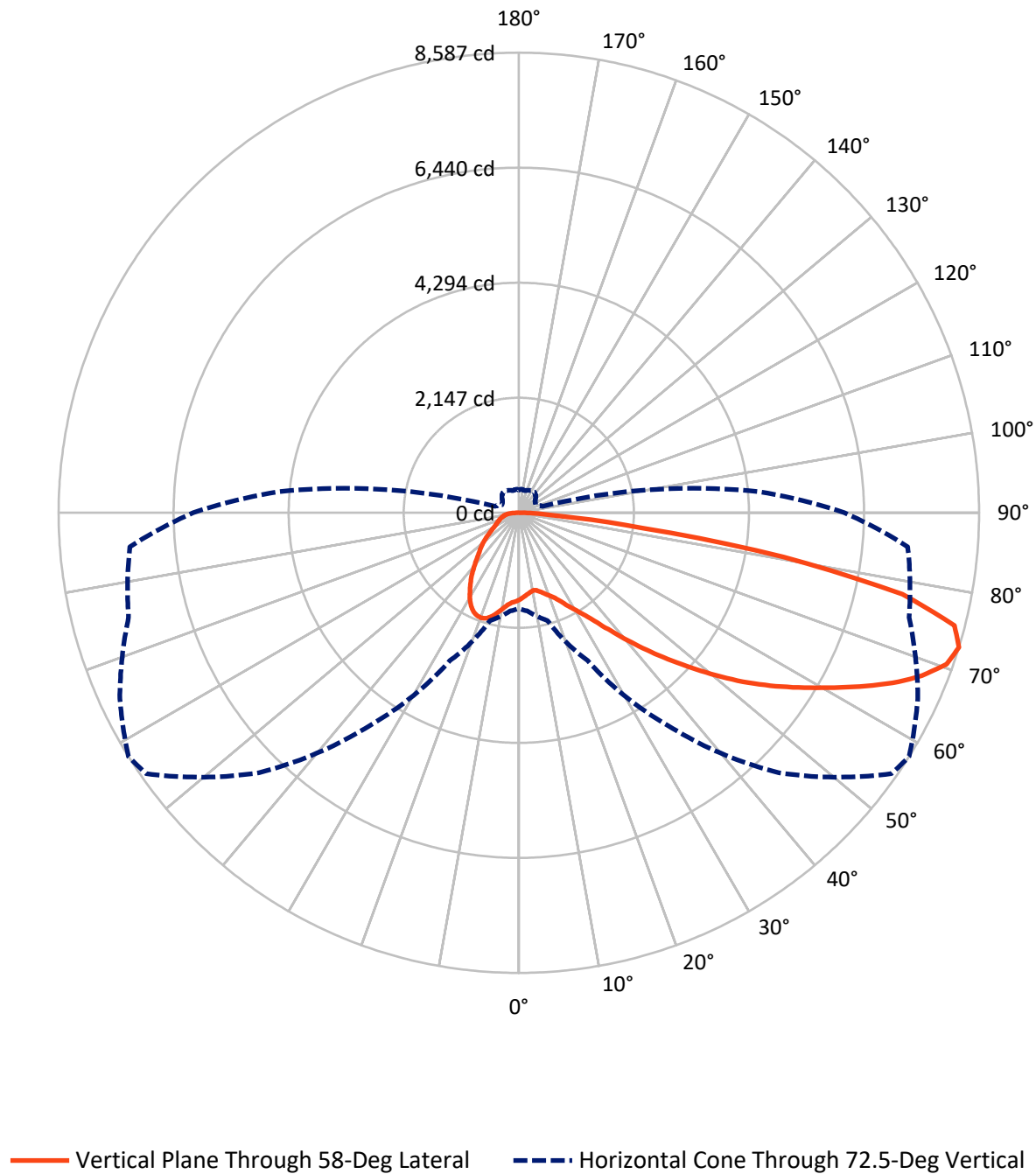


Based on 15 foot mounting height. Maximum calculated value = 8.4 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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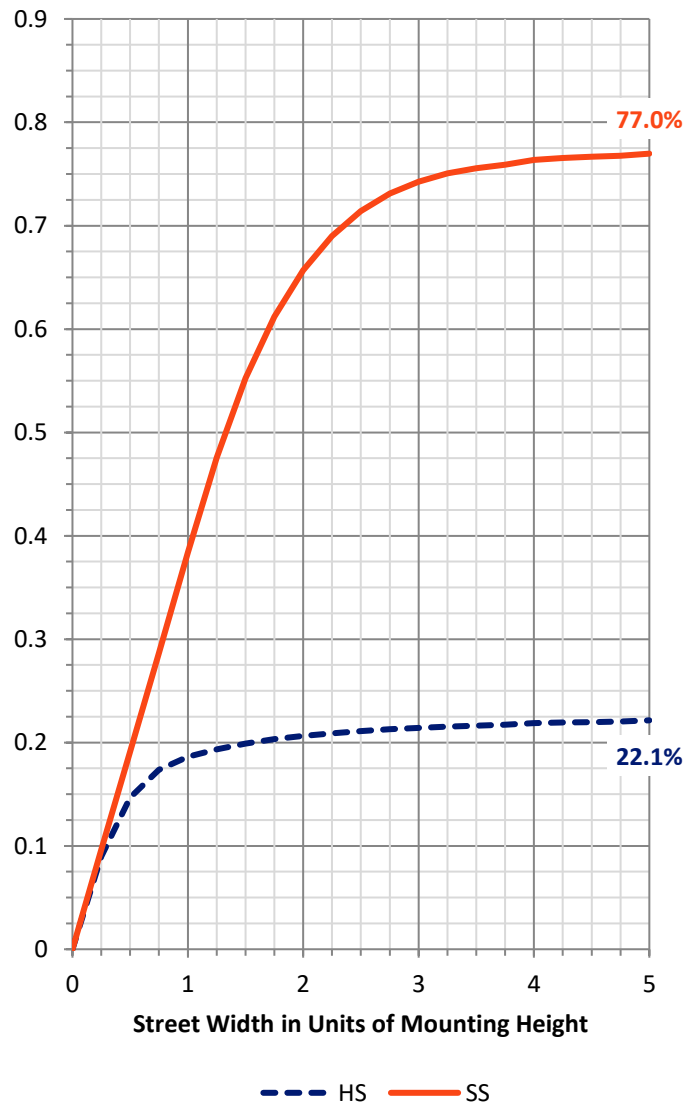
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3492.4	0.0	3492.4
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	11906.9	0.0	11906.9
	% Fixture	77.3	0.0	77.3
Total	Lumens	15399.3	0.0	15399.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	1.0
10°-20°	496.9	3.2
20°-30°	890.1	5.8
30°-40°	1339.0	8.7
40°-50°	2168.3	14.1
50°-60°	3264.0	21.2
60°-70°	3841.4	24.9
70°-80°	2723.9	17.7
80°-90°	519.0	3.4
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°	15399.3	100.0
0°-180°	15399.3	100.0

Coefficient of Utilization



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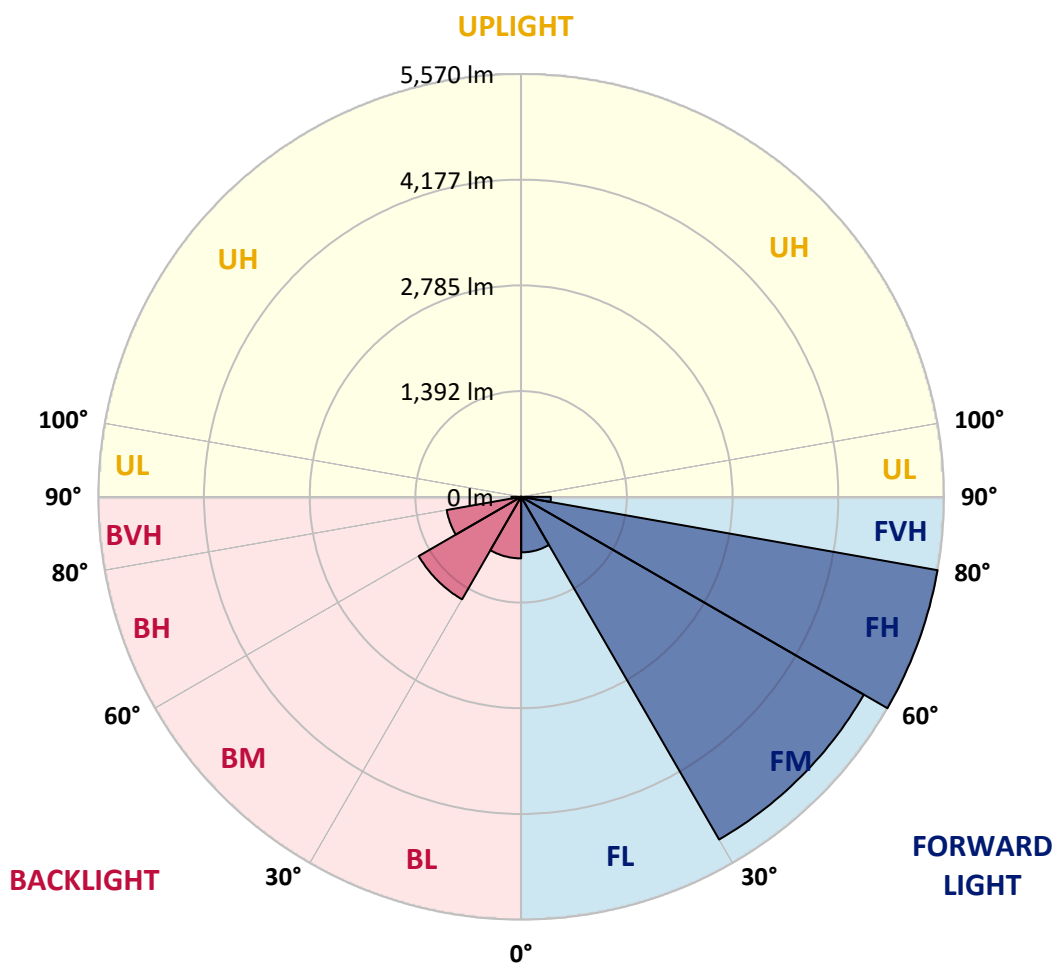
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	732.3	4.8			
FM	(30°-60°)	5213.1	33.9			
FH	(60°-80°)	5570.0	36.2			G3/7500
FVH	(80°-90°)	391.5	2.5			G3/500
BL	(0°-30°)	811.2	5.3	B2/1000		
BM	(30°-60°)	1558.3	10.1	B2/2500		
BH	(60°-80°)	995.4	6.5	B2/1000		G2/1000
BVH	(80°-90°)	127.5	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1624.3	1624.3	1624.3	1624.3	1624.3	1624.3	1624.3	1624.3	1624.3	1624.3	1624.3
2.5°	1563.3	1555.2	1557.2	1557.2	1565.4	1569.4	1571.4	1577.5	1581.6	1591.8	1606.0
5°	1490.1	1484.0	1486.1	1488.1	1502.3	1516.5	1528.7	1536.9	1549.1	1565.4	1585.7
7.5°	1437.3	1433.2	1435.2	1439.3	1451.5	1467.7	1488.1	1500.3	1518.6	1549.1	1583.6
10°	1398.7	1398.7	1400.7	1408.8	1421.0	1441.3	1457.6	1471.8	1508.4	1563.3	1616.2
12.5°	1368.1	1368.1	1374.2	1390.5	1410.8	1431.2	1469.8	1486.1	1534.8	1610.1	1673.1
15°	1366.1	1368.1	1370.2	1384.4	1406.7	1451.5	1508.4	1532.8	1591.8	1681.2	1754.4
17.5°	1398.7	1400.7	1392.6	1396.6	1423.0	1486.1	1561.3	1589.7	1665.0	1762.5	1837.8
20°	1498.3	1498.3	1473.8	1451.5	1469.8	1538.9	1624.3	1652.8	1736.1	1843.9	1919.1
22.5°	1701.5	1711.7	1654.8	1606.0	1577.5	1616.2	1693.4	1723.9	1817.4	1933.3	2008.6
25°	1947.6	1957.7	1880.5	1811.3	1758.5	1752.4	1803.2	1835.7	1912.9	2032.9	2095.9
27.5°	2185.4	2167.1	2095.9	2030.9	1963.8	1908.9	1947.6	1976.0	2065.4	2156.9	2195.5
30°	2372.4	2358.2	2289.0	2242.3	2179.2	2108.1	2085.8	2116.3	2189.4	2274.8	2295.1
32.5°	2579.8	2569.6	2500.5	2439.5	2386.7	2319.6	2270.8	2285.0	2325.7	2386.7	2398.8
35°	2844.0	2866.4	2793.2	2669.2	2610.3	2545.2	2510.6	2514.7	2545.2	2583.8	2563.5
37.5°	3122.5	3149.0	3153.1	2957.9	2878.6	2819.7	2783.0	2797.3	2833.9	2860.3	2797.3
40°	3638.9	3612.4	3506.7	3362.4	3240.4	3183.5	3132.7	3130.7	3157.1	3203.9	3090.0
42.5°	4324.0	4299.6	4086.2	3899.1	3706.0	3641.0	3541.4	3498.6	3510.8	3569.8	3411.2
45°	4980.7	4970.5	4799.7	4582.2	4350.4	4224.4	3996.7	3893.0	3882.8	3929.6	3740.5
47.5°	5564.1	5519.4	5395.3	5226.6	5202.3	4872.9	4454.1	4313.9	4265.1	4291.5	4080.1
50°	6188.2	6035.7	5864.9	5761.2	5938.1	5631.2	4915.6	4769.2	4649.3	4667.5	4448.0
52.5°	6519.6	6263.4	6151.6	6182.1	6419.9	6302.1	5417.7	5238.8	5045.7	5072.1	4814.0
55°	6235.0	6232.9	6281.7	6470.7	6802.1	6665.9	5895.4	5694.2	5482.7	5488.8	5234.7
57.5°	5844.6	5923.9	6176.0	6592.7	7275.8	7048.1	6365.0	6151.6	5958.5	5927.9	5712.5
60°	5488.8	5576.3	5942.2	6572.4	7440.5	7397.8	6812.3	6625.3	6468.8	6379.3	6214.6
62.5°	4948.1	5013.2	5531.6	6442.3	7302.2	7649.8	7265.6	7137.5	7019.7	6834.7	6755.3
65°	4311.8	4334.1	4881.0	6013.4	7129.4	7747.4	7716.9	7660.0	7546.2	7273.8	7290.0
67.5°	3622.6	3667.3	4147.2	5328.2	6751.3	7702.7	8066.6	8113.4	7979.2	7570.6	7631.5
70°	2888.8	2943.7	3307.5	4380.9	6108.9	7509.6	8389.8	8465.0	8206.9	7668.2	7694.5
72.5°	1787.0	1839.8	2083.7	3043.3	4842.4	6861.0	8489.4	8587.0	8213.0	7538.0	7283.9
75°	618.0	624.1	815.2	1459.6	2874.5	5179.9	8164.2	8393.9	7954.8	7064.4	6338.6
77.5°	282.6	292.8	361.8	601.7	1274.6	2795.2	6741.2	7316.4	7170.1	6324.4	4879.0
80°	195.1	199.2	250.0	359.8	735.9	983.9	4254.9	5005.0	5261.1	4897.3	3126.6
82.5°	146.3	150.4	193.1	244.0	530.6	477.7	1620.3	2325.7	2890.8	2837.9	1307.1
85°	140.2	138.2	150.4	162.6	353.8	284.6	524.5	719.7	1128.3	965.6	329.3
87.5°	61.0	67.1	154.5	91.5	185.0	132.2	227.7	266.3	343.6	298.9	117.9
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°	1624.3	1624.3	1624.3	1624.3	1624.3	1624.3	1624.3	1624.3	1624.3	1624.3	1624.3
2.5°	1612.1	1616.2	1628.3	1646.6	1656.8	1677.2	1691.4	1699.5	1705.6	1707.6	1707.6
5°	1597.9	1606.0	1632.4	1662.9	1691.4	1734.1	1772.7	1795.0	1811.3	1817.4	1819.5
7.5°	1601.9	1622.3	1660.9	1705.6	1742.2	1797.1	1843.9	1888.6	1925.2	1939.4	1939.4
10°	1640.5	1669.0	1721.9	1780.9	1827.6	1884.5	1933.3	1971.9	2014.6	2039.0	2043.1
12.5°	1699.5	1734.1	1803.2	1868.2	1921.1	1965.8	2010.5	2039.0	2059.4	2077.6	2081.7
15°	1782.9	1825.6	1894.7	1961.7	2008.6	2037.0	2049.2	2049.2	2047.2	2049.2	2053.3
17.5°	1866.2	1906.8	1976.0	2043.1	2065.4	2049.2	2034.9	2030.9	2028.8	2024.8	2026.8
20°	1947.6	1986.2	2045.1	2095.9	2077.6	2020.7	2002.4	2000.4	1994.3	1990.2	1986.2
22.5°	2028.8	2057.3	2106.1	2124.4	2051.2	1969.9	1947.6	1935.3	1927.2	1917.0	1906.8
25°	2122.3	2130.5	2167.1	2138.6	1986.2	1876.4	1843.9	1825.6	1817.4	1807.2	1799.1
27.5°	2209.8	2209.8	2215.9	2116.3	1890.6	1752.4	1703.6	1671.1	1669.0	1667.0	1665.0
30°	2289.0	2278.9	2258.6	2049.2	1766.6	1599.9	1526.7	1494.2	1506.4	1516.5	1518.6
32.5°	2382.6	2362.2	2305.3	1957.7	1618.2	1429.1	1339.7	1325.5	1339.7	1351.8	1343.8
35°	2528.9	2492.4	2354.1	1852.0	1475.9	1272.6	1187.2	1166.9	1162.8	1160.8	1144.5
37.5°	2738.3	2675.3	2392.8	1738.1	1335.6	1134.3	1071.4	1028.6	990.0	949.4	943.3
40°	2994.5	2886.8	2419.2	1608.0	1187.2	1018.5	951.4	896.5	831.5	760.3	752.1
42.5°	3275.1	3114.4	2431.4	1463.7	1057.1	922.9	839.6	770.5	697.3	642.4	632.3
45°	3577.9	3360.4	2421.2	1325.5	951.4	841.6	748.1	672.9	614.0	575.3	567.2
47.5°	3872.7	3643.0	2392.8	1215.7	870.1	772.5	677.0	607.8	563.1	520.5	510.3
50°	4250.8	3913.4	2358.2	1130.3	780.7	703.4	632.3	559.1	508.2	487.9	483.8
52.5°	4669.6	4183.7	2317.5	1022.5	693.2	648.5	603.8	538.7	522.5	483.8	477.7
55°	5122.9	4504.9	2309.4	886.4	616.0	609.9	575.3	557.0	561.1	483.8	473.6
57.5°	5600.6	4848.5	2327.7	750.1	553.0	575.3	587.5	573.3	567.2	494.0	473.6
60°	6098.7	5179.9	2272.8	624.1	504.2	546.8	601.7	565.2	520.5	489.9	475.7
62.5°	6582.5	5458.4	2034.9	534.6	467.6	538.7	593.6	534.6	483.8	483.8	477.7
65°	6934.2	5582.4	1591.8	469.6	443.2	528.5	579.3	514.4	473.6	487.9	479.7
67.5°	6974.9	5454.3	1069.3	418.7	422.8	510.3	546.8	496.0	463.5	500.1	487.9
70°	6724.9	5120.9	654.6	380.1	396.4	477.7	518.4	477.7	449.3	489.9	471.6
72.5°	6076.4	4498.8	461.5	347.7	367.9	447.2	492.0	461.5	428.9	443.2	424.9
75°	4984.7	3486.5	365.9	317.1	339.5	418.7	469.6	437.1	404.6	398.5	386.3
77.5°	3531.2	2234.1	294.8	292.8	309.0	384.2	439.1	408.6	376.1	363.9	355.8
80°	2030.9	1095.7	254.1	264.3	280.5	349.7	402.5	376.1	345.6	327.3	315.1
82.5°	776.6	382.2	223.6	229.7	248.0	313.0	365.9	343.6	313.0	329.3	276.5
85°	252.0	209.4	183.0	189.1	207.3	260.2	323.2	304.9	270.4	239.9	221.6
87.5°	111.8	113.8	97.6	107.7	130.1	172.8	235.8	223.6	197.2	164.7	158.6
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)