

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: P380934

Luminaire Tested: **PRV-PA2A-8540-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380934
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-PA2A-8540-U-T3
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 85 CRI, 4000K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12331.5 lumens
Efficiency: N/A
Efficacy: 110.1 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): 112
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

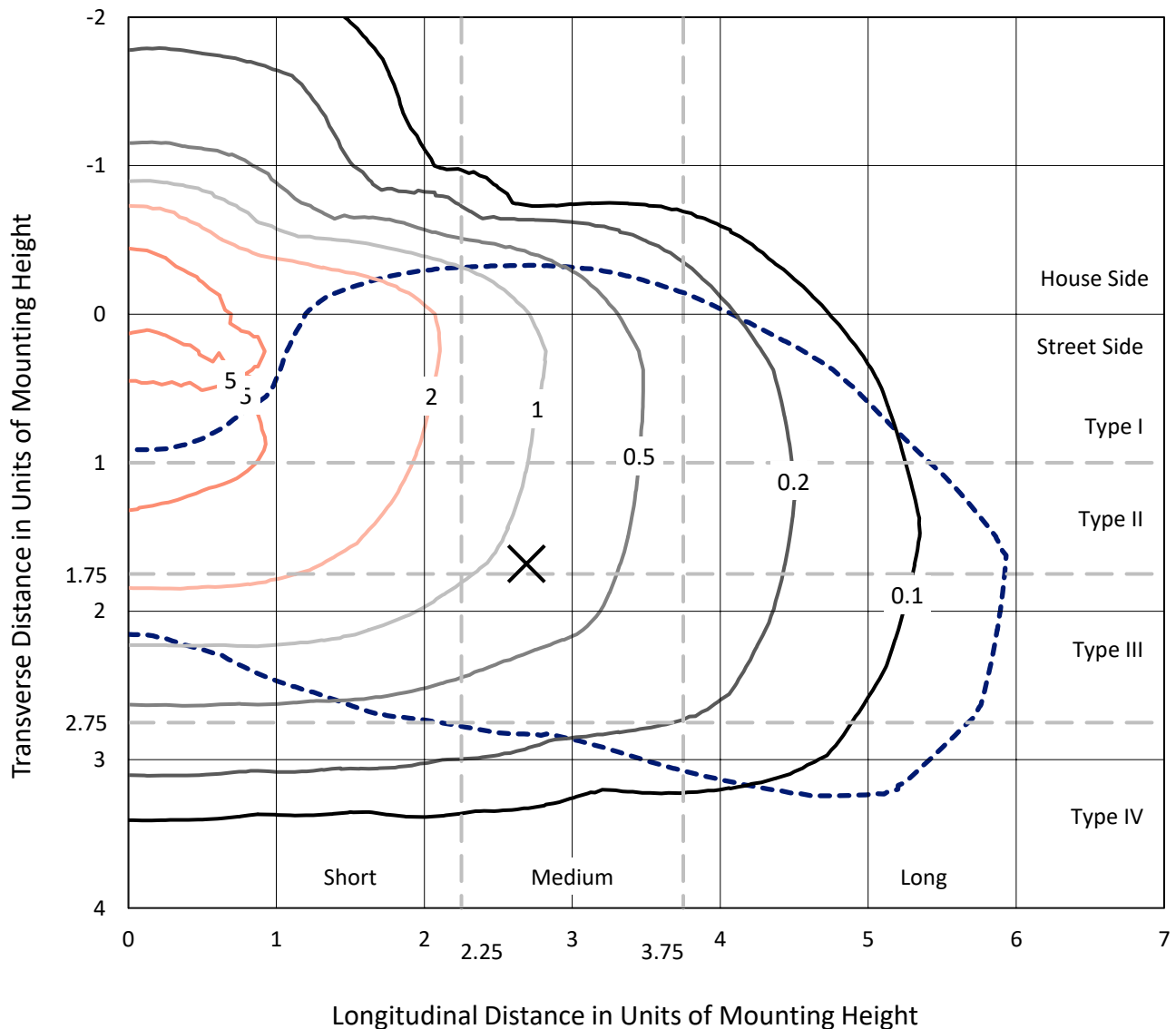


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

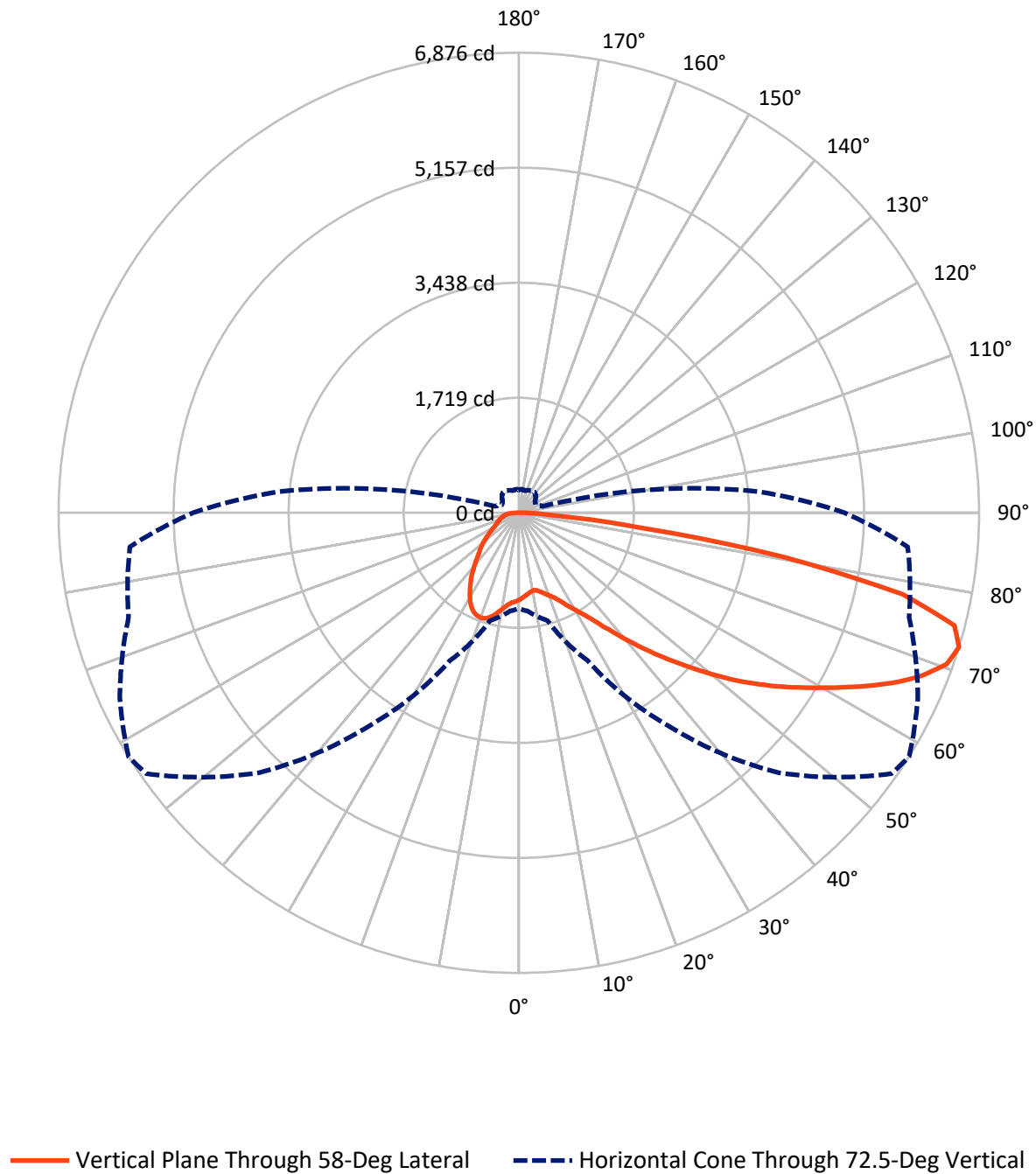


Based on 15 foot mounting height. Maximum calculated value = 6.7 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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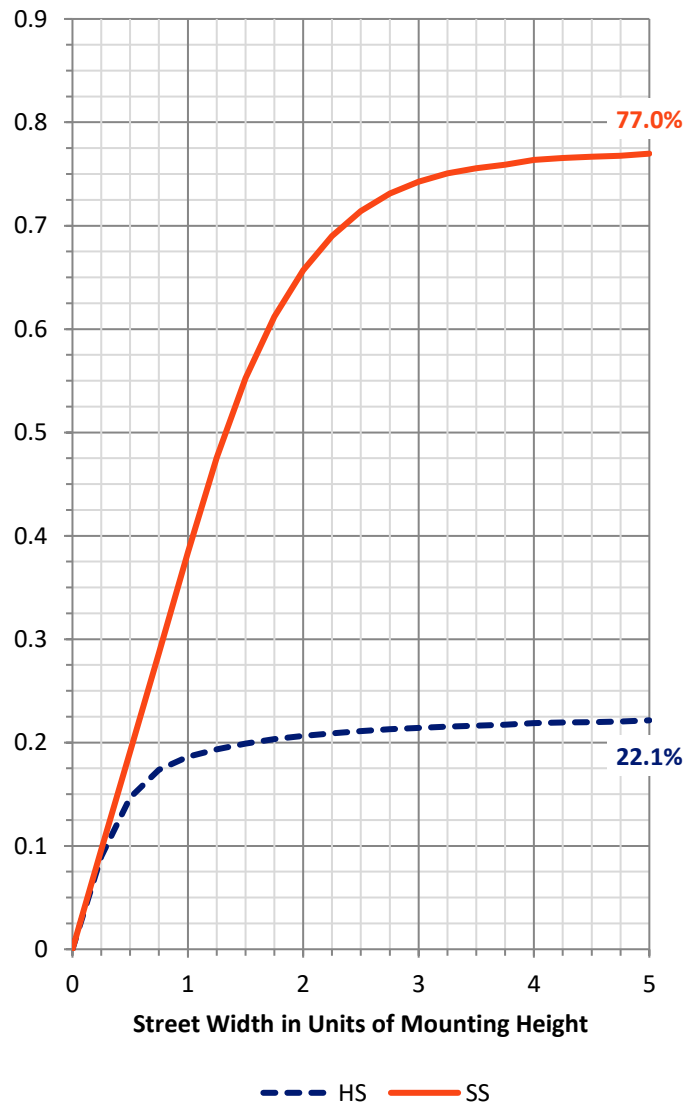
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2796.6	0.0	2796.6
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	9534.8	0.0	9534.8
	% Fixture	77.3	0.0	77.3
Total	Lumens	12331.5	0.0	12331.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	1.0
10°-20°	397.9	3.2
20°-30°	712.8	5.8
30°-40°	1072.3	8.7
40°-50°	1736.4	14.1
50°-60°	2613.8	21.2
60°-70°	3076.1	24.9
70°-80°	2181.3	17.7
80°-90°	415.6	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°	12331.5	100.0
0°-180°	12331.5	100.0

Coefficient of Utilization



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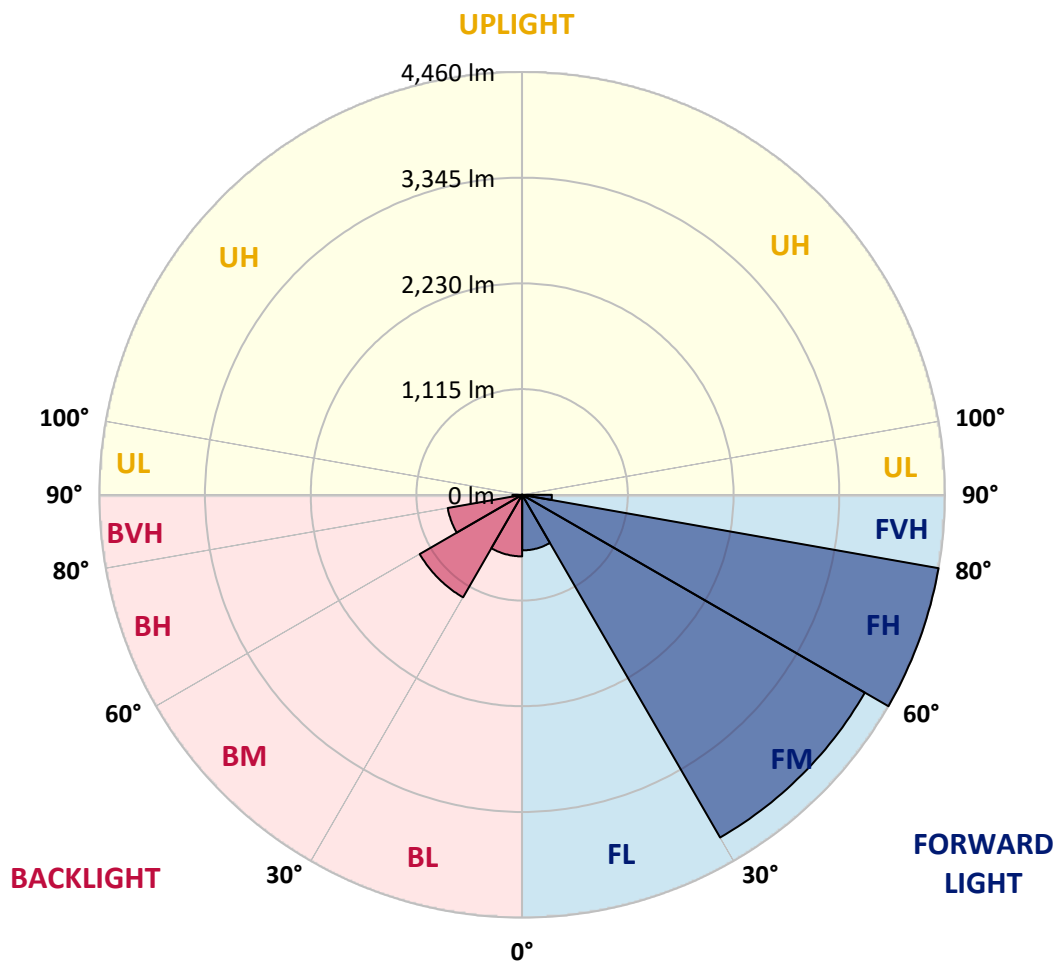
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	586.4	4.8			
FM	(30°-60°)	4174.6	33.9			
FH	(60°-80°)	4460.3	36.2			G2/5000
FVH	(80°-90°)	313.5	2.5			G3/500
BL	(0°-30°)	649.6	5.3	B2/1000		
BM	(30°-60°)	1247.8	10.1	B2/2500		
BH	(60°-80°)	797.1	6.5	B2/1000		G2/1000
BVH	(80°-90°)	102.1	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°	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7
2.5°	1251.9	1245.4	1247.0	1247.0	1253.5	1256.7	1258.4	1263.3	1266.5	1274.6	1286.1
5°	1193.3	1188.4	1190.0	1191.6	1203.0	1214.4	1224.2	1230.7	1240.5	1253.5	1269.8
7.5°	1150.9	1147.7	1149.3	1152.6	1162.4	1175.4	1191.6	1201.4	1216.1	1240.5	1268.1
10°	1120.0	1120.0	1121.6	1128.1	1137.9	1154.2	1167.2	1178.6	1207.9	1251.9	1294.2
12.5°	1095.6	1095.6	1100.5	1113.5	1129.8	1146.1	1177.0	1190.0	1229.1	1289.3	1339.8
15°	1093.9	1095.6	1097.2	1108.6	1126.5	1162.4	1207.9	1227.4	1274.6	1346.3	1404.9
17.5°	1120.0	1121.6	1115.1	1118.4	1139.6	1190.0	1250.2	1273.0	1333.3	1411.4	1471.6
20°	1199.8	1199.8	1180.2	1162.4	1177.0	1232.4	1300.7	1323.5	1390.2	1476.5	1536.8
22.5°	1362.6	1370.7	1325.1	1286.1	1263.3	1294.2	1356.1	1380.5	1455.4	1548.1	1608.4
25°	1559.6	1567.7	1505.8	1450.5	1408.1	1403.3	1443.9	1470.0	1531.9	1627.9	1678.4
27.5°	1750.0	1735.4	1678.4	1626.3	1572.6	1528.7	1559.6	1582.4	1653.9	1727.2	1758.1
30°	1899.8	1888.4	1833.0	1795.6	1745.2	1688.1	1670.2	1694.6	1753.3	1821.6	1837.9
32.5°	2065.9	2057.7	2002.4	1953.5	1911.1	1857.4	1818.4	1829.8	1862.4	1911.1	1920.9
35°	2277.4	2295.4	2236.8	2137.4	2090.2	2038.1	2010.5	2013.7	2038.1	2069.1	2052.8
37.5°	2500.5	2521.7	2524.9	2368.7	2305.2	2257.9	2228.7	2240.0	2269.3	2290.5	2240.0
40°	2914.0	2892.8	2808.2	2692.6	2594.9	2549.3	2508.7	2507.0	2528.2	2565.6	2474.4
42.5°	3462.6	3443.1	3272.2	3122.4	2967.7	2915.6	2835.9	2801.7	2811.4	2858.7	2731.7
45°	3988.4	3980.2	3843.5	3669.3	3483.7	3382.8	3200.5	3117.4	3109.3	3146.8	2995.4
47.5°	4455.6	4419.8	4320.5	4185.4	4165.9	3902.2	3566.8	3454.4	3415.4	3436.5	3267.2
50°	4955.4	4833.3	4696.5	4613.5	4755.2	4509.4	3936.3	3819.1	3723.1	3737.7	3561.9
52.5°	5220.7	5015.6	4926.1	4950.5	5140.9	5046.5	4338.4	4195.2	4040.5	4061.7	3854.9
55°	4992.8	4991.2	5030.3	5181.7	5447.0	5337.9	4720.9	4559.8	4390.5	4395.4	4191.9
57.5°	4680.3	4743.7	4945.6	5279.4	5826.3	5644.0	5097.0	4926.1	4771.4	4747.0	4574.4
60°	4395.4	4465.4	4758.4	5263.1	5958.2	5924.0	5455.2	5305.4	5180.0	5108.4	4976.5
62.5°	3962.4	4014.4	4429.6	5158.9	5847.5	6125.9	5818.2	5715.6	5621.2	5473.1	5409.6
65°	3452.8	3470.7	3908.7	4815.4	5709.1	6204.0	6179.6	6134.0	6042.8	5824.7	5837.7
67.5°	2900.9	2936.8	3320.9	4266.8	5406.3	6168.2	6459.6	6497.0	6389.6	6062.4	6111.2
70°	2313.3	2357.2	2648.7	3508.2	4891.9	6013.5	6718.5	6778.7	6571.9	6140.5	6161.7
72.5°	1430.9	1473.3	1668.7	2437.0	3877.7	5494.2	6798.2	6876.3	6576.8	6036.3	5832.8
75°	494.9	499.8	652.8	1168.9	2301.9	4147.9	6537.7	6721.7	6370.0	5657.0	5075.9
77.5°	226.3	234.4	289.8	481.9	1020.7	2238.4	5398.2	5858.9	5741.7	5064.4	3907.0
80°	156.3	159.5	200.2	288.1	589.3	787.9	3407.2	4007.9	4213.1	3921.7	2503.7
82.5°	117.2	120.5	154.6	195.4	424.9	382.6	1297.4	1862.4	2314.9	2272.6	1046.7
85°	112.4	110.7	120.5	130.2	283.3	227.9	420.0	576.3	903.5	773.3	263.7
87.5°	48.9	53.7	123.7	73.3	148.1	105.8	182.4	213.3	275.1	239.3	94.4
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°	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7
2.5°	1290.9	1294.2	1303.9	1318.7	1326.7	1343.0	1354.4	1360.9	1365.8	1367.4	1367.4
5°	1279.6	1286.1	1307.2	1331.6	1354.4	1388.7	1419.6	1437.4	1450.5	1455.4	1457.0
7.5°	1282.8	1299.1	1330.0	1365.8	1395.1	1439.1	1476.5	1512.4	1541.6	1553.0	1553.0
10°	1313.7	1336.5	1378.9	1426.1	1463.5	1509.1	1548.1	1579.1	1613.3	1632.8	1636.1
12.5°	1360.9	1388.7	1443.9	1496.1	1538.4	1574.2	1610.0	1632.8	1649.1	1663.7	1667.0
15°	1427.7	1461.9	1517.2	1570.9	1608.4	1631.1	1640.9	1640.9	1639.3	1640.9	1644.2
17.5°	1494.4	1527.0	1582.4	1636.1	1653.9	1640.9	1629.6	1626.3	1624.6	1621.4	1623.0
20°	1559.6	1590.5	1637.7	1678.4	1663.7	1618.1	1603.5	1601.9	1597.0	1593.7	1590.5
22.5°	1624.6	1647.4	1686.5	1701.1	1642.6	1577.4	1559.6	1549.8	1543.3	1535.1	1527.0
25°	1699.6	1706.1	1735.4	1712.6	1590.5	1502.6	1476.5	1461.9	1455.4	1447.2	1440.7
27.5°	1769.6	1769.6	1774.4	1694.6	1513.9	1403.3	1364.2	1338.1	1336.5	1334.9	1333.3
30°	1833.0	1824.9	1808.7	1640.9	1414.6	1281.1	1222.6	1196.5	1206.3	1214.4	1216.1
32.5°	1907.9	1891.6	1846.1	1567.7	1295.8	1144.4	1072.8	1061.4	1072.8	1082.6	1076.1
35°	2025.2	1995.9	1885.2	1483.0	1181.9	1019.1	950.7	934.4	931.1	929.6	916.5
37.5°	2192.8	2142.4	1916.1	1391.9	1069.6	908.4	857.9	823.7	792.8	760.2	755.4
40°	2397.9	2311.7	1937.2	1287.7	950.7	815.6	761.9	717.9	665.8	608.9	602.4
42.5°	2622.6	2494.0	1947.0	1172.1	846.5	739.1	672.4	617.0	558.4	514.4	506.3
45°	2865.2	2690.9	1938.9	1061.4	761.9	673.9	599.1	538.9	491.6	460.7	454.2
47.5°	3101.1	2917.2	1916.1	973.5	696.7	618.6	542.1	486.7	450.9	416.7	408.6
50°	3404.0	3133.7	1888.4	905.1	625.1	563.3	506.3	447.6	407.0	390.7	387.4
52.5°	3739.3	3350.2	1855.9	818.9	555.1	519.3	483.5	431.4	418.4	387.4	382.6
55°	4102.4	3607.4	1849.3	709.8	493.3	488.4	460.7	446.1	449.3	387.4	379.3
57.5°	4484.9	3882.6	1863.9	600.7	442.8	460.7	470.5	459.1	454.2	395.6	379.3
60°	4883.7	4147.9	1820.0	499.8	403.7	437.9	481.9	452.6	416.7	392.4	380.9
62.5°	5271.2	4370.9	1629.6	428.1	374.4	431.4	475.4	428.1	387.4	387.4	382.6
65°	5552.8	4470.3	1274.6	376.1	354.9	423.3	463.9	411.9	379.3	390.7	384.2
67.5°	5585.4	4367.7	856.3	335.4	338.6	408.6	437.9	397.2	371.1	400.5	390.7
70°	5385.2	4100.7	524.2	304.4	317.4	382.6	415.1	382.6	359.8	392.4	377.6
72.5°	4865.9	3602.6	369.6	278.4	294.6	358.1	393.9	369.6	343.5	354.9	340.2
75°	3991.7	2791.9	293.0	253.9	271.9	335.4	376.1	350.0	323.9	319.1	309.3
77.5°	2827.7	1789.1	236.1	234.4	247.4	307.6	351.6	327.2	301.1	291.4	284.9
80°	1626.3	877.4	203.5	211.6	224.6	280.0	322.4	301.1	276.7	262.1	252.4
82.5°	621.9	306.1	179.1	183.9	198.6	250.7	293.0	275.1	250.7	263.7	221.4
85°	201.9	167.6	146.5	151.4	166.1	208.4	258.9	244.2	216.5	192.1	177.4
87.5°	89.5	91.1	78.1	86.3	104.2	138.4	188.9	179.1	157.9	131.9	127.0
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)