

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: P380998

Luminaire Tested: **PRV-PA2A-8540-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2A-8540-U-T4W
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 85 CRI, 4000K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12183.5 lumens
Efficiency: N/A
Efficacy: 108.8 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

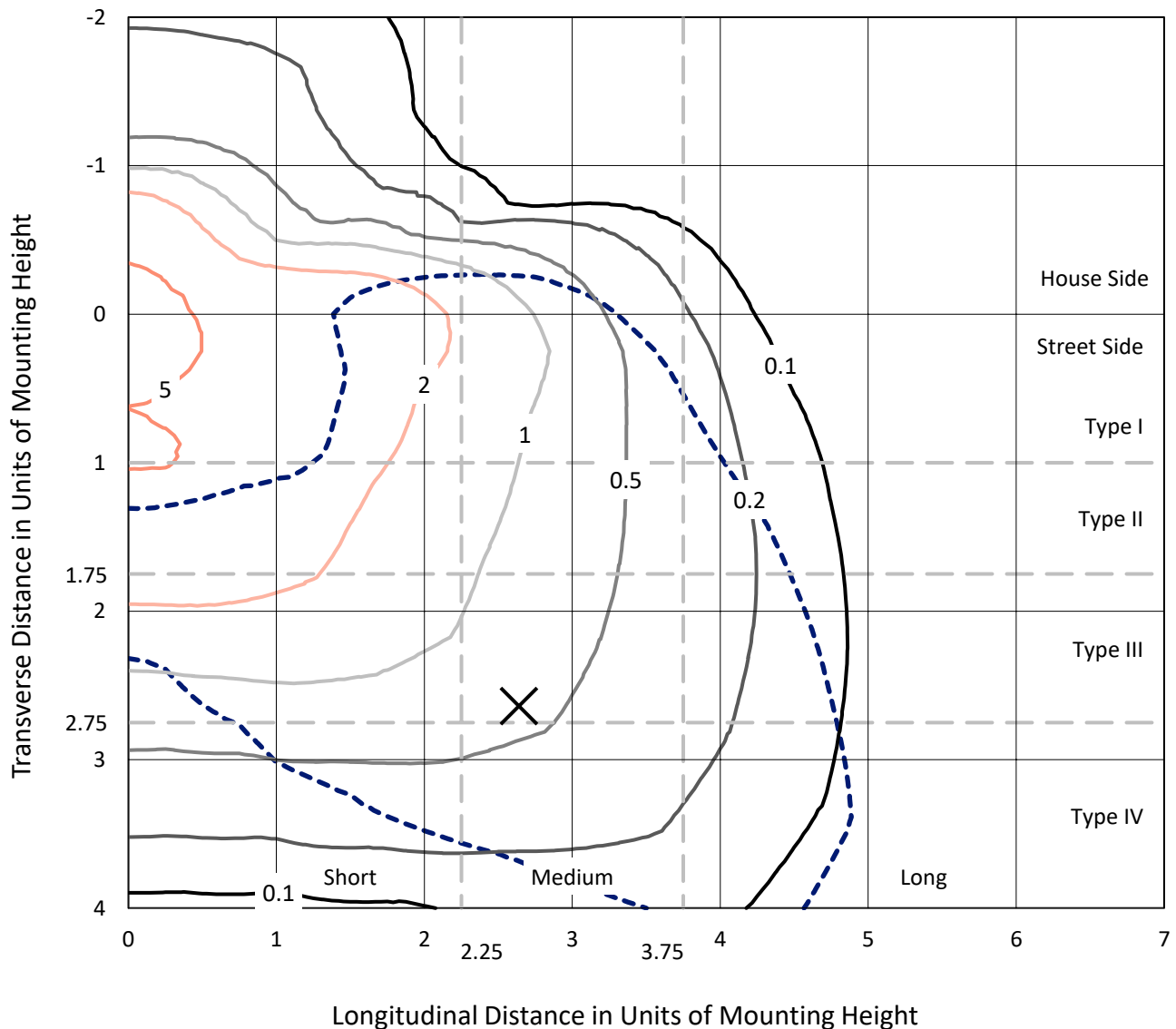


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

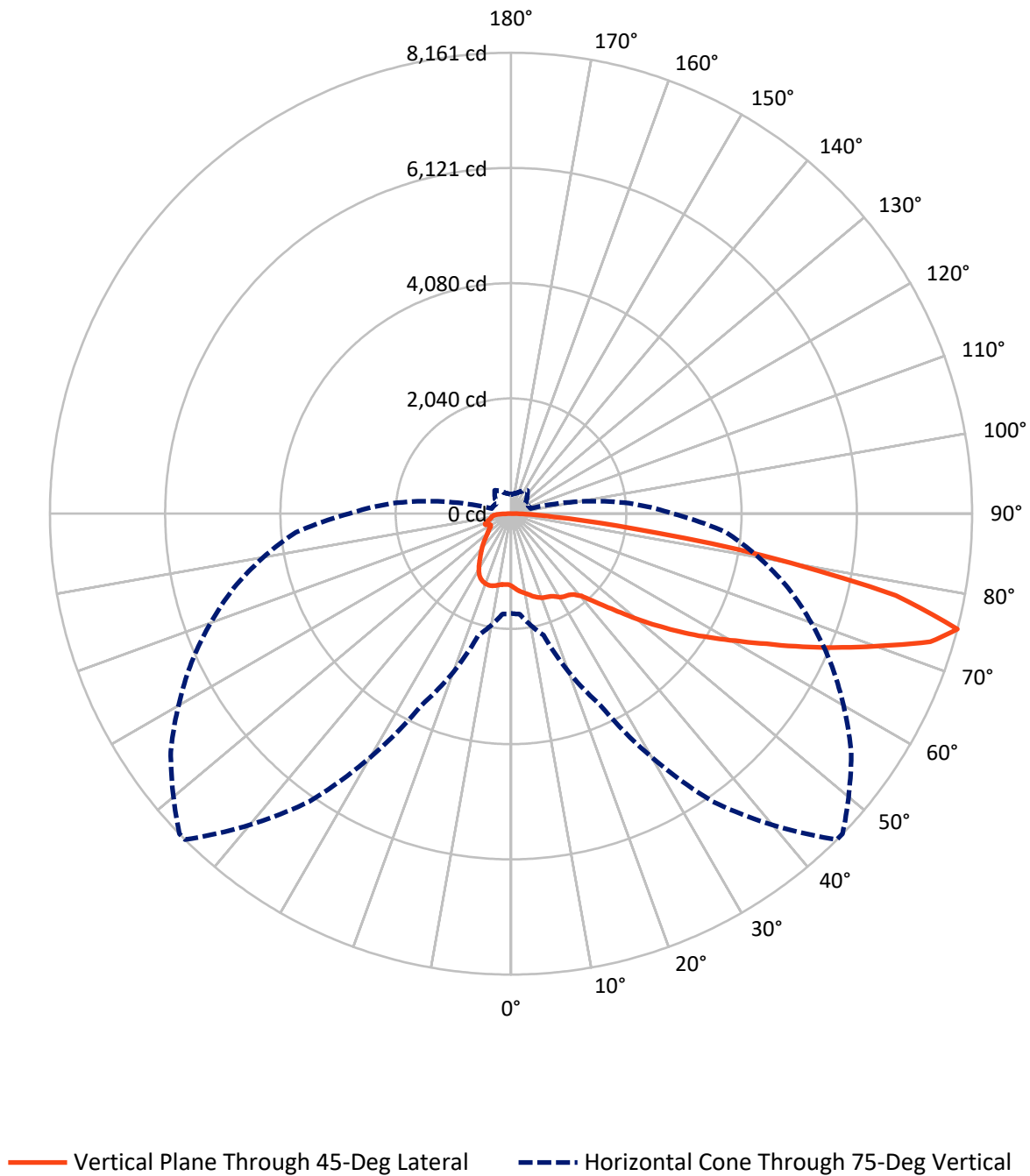


Based on 15 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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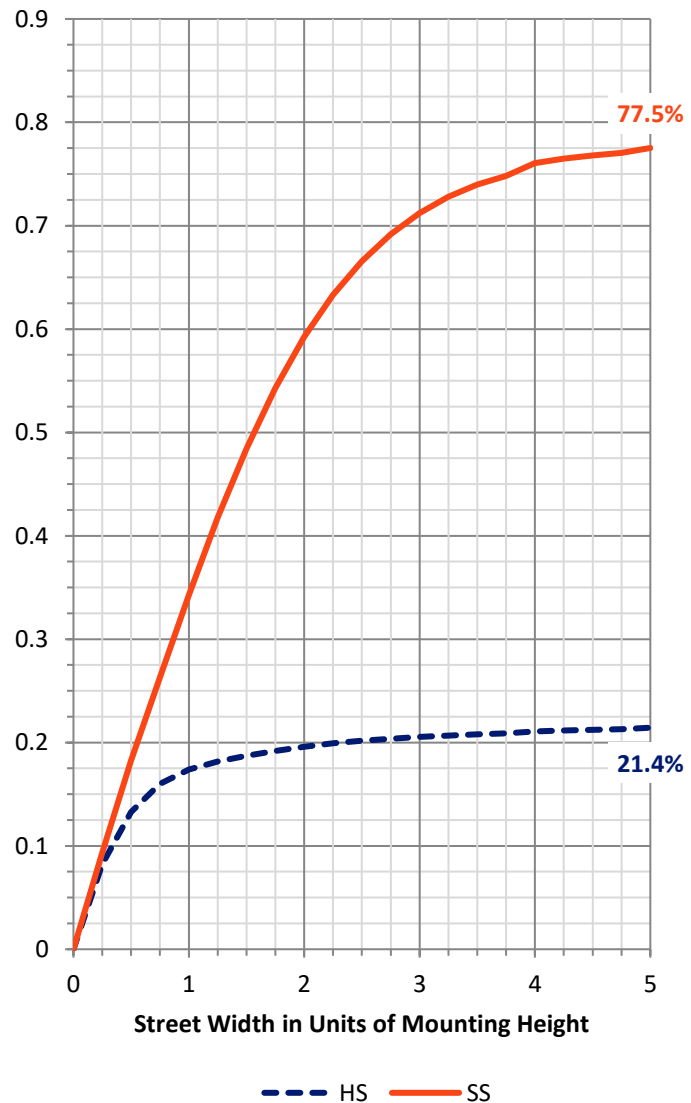
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2692.5	0.0	2692.5
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	9491.0	0.0	9491.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	12183.5	0.0	12183.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	1.0
10°-20°	402.7	3.3
20°-30°	686.6	5.6
30°-40°	961.9	7.9
40°-50°	1413.2	11.6
50°-60°	2249.2	18.5
60°-70°	3199.5	26.3
70°-80°	2678.9	22.0
80°-90°	464.9	3.8
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°	12183.5	100.0
0°-180°	12183.5	100.0

Coefficient of Utilization



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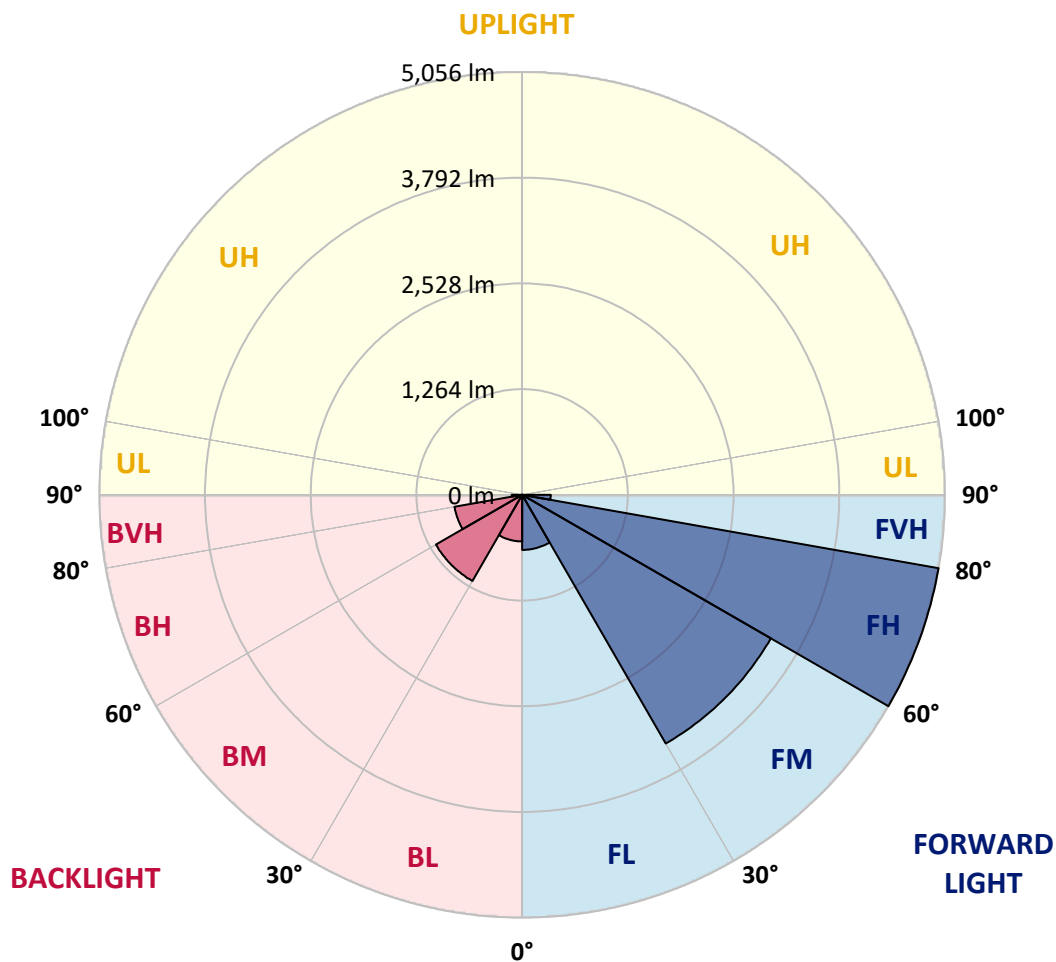
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	658.6	5.4			
FM	(30°-60°)	3434.2	28.2			
FH	(60°-80°)	5056.4	41.5			G3/7500
FVH	(80°-90°)	341.8	2.8			G3/500
BL	(0°-30°)	557.2	4.6	B2/1000		
BM	(30°-60°)	1190.2	9.8	B2/2500		
BH	(60°-80°)	821.9	6.7	B2/1000		G2/1000
BVH	(80°-90°)	123.1	1.0			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°	46°	55°	65°	75°	85°
0°	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5
2.5°	1352.8	1346.3	1343.0	1343.0	1330.0	1321.9	1320.2	1308.9	1299.1	1289.3	1281.1
5°	1430.9	1426.1	1416.3	1408.1	1390.2	1367.4	1364.2	1339.8	1315.4	1292.6	1273.0
7.5°	1502.6	1492.8	1481.4	1465.1	1435.8	1404.9	1400.0	1365.8	1331.6	1297.4	1271.4
10°	1562.8	1553.0	1536.7	1513.9	1476.5	1439.1	1434.2	1398.4	1362.6	1321.9	1284.4
12.5°	1619.8	1611.6	1587.2	1556.3	1512.3	1478.1	1473.2	1442.3	1404.9	1359.3	1310.4
15°	1668.6	1660.4	1634.4	1598.6	1548.1	1522.1	1515.6	1486.3	1448.9	1400.0	1349.5
17.5°	1693.0	1693.0	1665.4	1626.3	1579.1	1559.5	1554.6	1518.9	1484.6	1437.4	1387.0
20°	1701.1	1704.4	1684.9	1637.6	1597.0	1588.9	1583.9	1554.6	1515.6	1470.0	1422.8
22.5°	1706.1	1712.6	1696.3	1642.6	1608.4	1603.5	1600.2	1580.7	1549.8	1505.8	1458.6
25°	1722.3	1722.3	1710.9	1650.7	1623.0	1621.4	1621.4	1610.0	1588.9	1551.4	1504.2
27.5°	1746.7	1745.2	1730.4	1668.6	1655.6	1660.4	1658.9	1657.2	1642.6	1605.2	1554.6
30°	1787.4	1787.4	1771.1	1704.4	1696.3	1717.4	1719.1	1722.3	1699.5	1640.9	1600.2
32.5°	1849.3	1842.8	1826.5	1740.2	1727.2	1746.7	1750.0	1748.4	1728.9	1673.5	1653.9
35°	2039.8	2025.1	1966.5	1820.0	1754.9	1766.3	1767.9	1776.1	1779.3	1735.4	1725.6
37.5°	2373.5	2353.9	2264.4	2008.9	1842.8	1815.2	1813.5	1834.6	1852.6	1813.5	1813.5
40°	2736.5	2720.2	2668.2	2334.4	2005.6	1914.4	1907.9	1927.4	1950.2	1922.6	1930.7
42.5°	3049.1	3062.1	3066.9	2679.5	2249.8	2100.0	2082.1	2054.4	2090.2	2065.8	2098.4
45°	3283.5	3276.9	3366.5	3032.8	2565.6	2332.8	2308.4	2233.5	2279.1	2277.4	2349.1
47.5°	3532.6	3521.2	3558.6	3364.9	2925.4	2617.6	2580.2	2469.5	2537.9	2585.1	2703.9
50°	3768.6	3771.9	3784.9	3626.9	3316.0	2964.4	2917.2	2769.1	2866.7	2966.0	3133.7
52.5°	4076.3	4053.5	4037.2	3933.0	3753.9	3325.8	3294.9	3125.6	3262.3	3379.5	3602.6
55°	4344.9	4330.2	4320.4	4315.6	4120.2	3724.7	3692.1	3516.3	3713.2	3796.3	4125.1
57.5°	4631.4	4623.2	4675.4	4758.4	4680.2	4130.0	4095.8	3926.5	4146.3	4204.9	4691.6
60°	4841.4	4846.3	4989.5	5201.2	5147.4	4569.5	4528.8	4379.1	4567.9	4620.0	5258.2
62.5°	4843.0	4891.9	5223.9	5603.2	5665.1	5075.8	5028.6	4865.8	5000.9	5000.9	5766.0
65°	4380.7	4436.0	5181.6	5702.5	6189.3	5678.2	5632.5	5376.9	5427.4	5359.1	6243.0
67.5°	3920.0	3985.1	4686.7	5710.7	6557.2	6322.8	6269.1	5888.2	5801.9	5629.3	6576.7
70°	3613.9	3659.5	4245.6	5604.9	6778.6	6996.7	6956.0	6373.2	6096.5	5855.6	6506.7
72.5°	3042.6	3026.3	3586.3	5101.9	6902.3	7761.9	7727.7	6900.7	6352.1	5748.2	5549.5
75°	1766.3	1785.8	2225.4	3737.7	6221.9	8160.7	8157.5	7351.6	6239.7	5077.4	3823.9
77.5°	509.5	524.2	730.9	1642.6	3934.7	6960.9	7183.9	6723.2	5274.4	3618.8	1982.8
80°	223.0	234.4	317.4	547.0	1694.6	4546.7	4742.1	4546.7	3180.9	1660.4	778.1
82.5°	131.9	140.0	206.7	338.6	812.4	2163.5	2427.2	2119.5	1372.3	704.9	322.4
85°	74.9	78.1	118.9	214.9	511.1	757.0	849.8	796.1	669.1	400.4	169.3
87.5°	34.2	35.8	58.6	100.9	286.5	255.6	265.4	351.6	387.4	244.2	84.6
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°	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5
2.5°	1277.9	1273.0	1263.2	1260.0	1255.1	1256.7	1258.4	1258.4	1260.0	1255.1	1255.1
5°	1264.9	1256.7	1247.0	1247.0	1247.0	1260.0	1271.4	1277.9	1281.1	1281.1	1277.9
7.5°	1260.0	1250.2	1238.9	1242.1	1245.4	1261.6	1282.8	1303.9	1310.4	1310.4	1307.2
10°	1269.8	1260.0	1251.9	1256.7	1264.9	1277.9	1294.2	1313.7	1330.0	1331.6	1330.0
12.5°	1292.6	1281.1	1273.0	1282.8	1292.6	1300.7	1308.9	1317.0	1338.1	1341.4	1341.4
15°	1330.0	1318.6	1308.9	1317.0	1320.2	1320.2	1320.2	1320.2	1341.4	1344.6	1344.6
17.5°	1367.4	1357.6	1347.9	1349.5	1339.8	1326.7	1321.9	1320.2	1331.6	1341.4	1343.0
20°	1403.2	1395.1	1385.4	1369.1	1344.6	1320.2	1312.1	1312.1	1318.6	1333.2	1333.2
22.5°	1442.3	1432.6	1416.3	1378.9	1338.1	1303.9	1295.8	1300.7	1308.9	1328.4	1326.7
25°	1486.3	1473.2	1445.6	1375.6	1317.0	1276.3	1277.9	1292.6	1307.2	1328.4	1328.4
27.5°	1535.1	1517.2	1461.9	1349.5	1269.8	1230.7	1245.4	1279.5	1300.7	1323.5	1326.7
30°	1588.9	1572.6	1474.9	1303.9	1193.3	1157.4	1193.3	1248.6	1281.1	1302.3	1307.2
32.5°	1653.9	1640.9	1486.3	1245.4	1093.9	1063.0	1115.1	1183.5	1235.6	1260.0	1264.9
35°	1735.4	1722.3	1500.9	1178.6	1001.1	968.6	1015.8	1085.8	1154.2	1185.1	1194.9
37.5°	1841.1	1821.6	1513.9	1107.0	923.0	885.6	908.4	971.9	1033.7	1076.1	1087.4
40°	1976.3	1945.4	1525.4	1025.6	854.6	812.4	820.4	851.4	887.2	924.6	939.3
42.5°	2166.7	2104.9	1527.0	939.3	784.6	745.6	742.4	752.1	752.1	752.1	757.0
45°	2432.1	2314.9	1530.2	857.9	713.0	672.4	662.6	659.3	634.9	587.6	584.4
47.5°	2767.4	2590.0	1544.9	789.5	638.1	602.4	589.3	576.3	530.7	481.9	472.1
50°	3197.2	2909.1	1574.2	724.4	574.6	550.2	533.9	503.0	452.6	415.1	405.4
52.5°	3692.1	3288.4	1601.9	656.1	527.4	511.1	491.6	454.2	400.4	377.6	374.4
55°	4260.2	3711.7	1657.2	595.8	486.7	475.4	457.4	421.6	380.9	364.6	363.0
57.5°	4841.4	4185.4	1735.4	542.1	447.6	441.1	441.1	410.2	384.2	377.6	377.6
60°	5401.4	4592.3	1675.2	491.6	411.9	415.1	446.1	437.9	418.4	426.5	431.4
62.5°	5836.0	4831.6	1359.3	450.9	385.8	415.1	494.9	494.9	472.1	468.9	468.9
65°	6021.6	4828.4	955.6	420.0	376.1	455.8	551.9	525.8	465.6	442.8	437.9
67.5°	5974.4	4616.7	659.3	398.9	372.8	498.1	577.9	504.6	436.3	416.7	402.1
70°	5559.3	4169.1	507.9	379.3	367.9	480.2	569.8	480.2	413.5	395.6	382.6
72.5°	4484.9	3343.7	421.6	359.8	348.4	444.4	542.1	457.4	395.6	376.1	363.0
75°	2860.2	2103.2	356.5	333.7	310.9	398.9	504.6	434.6	376.1	350.0	340.2
77.5°	1375.6	906.7	310.9	302.8	280.0	369.5	467.2	405.4	350.0	328.9	322.4
80°	556.7	415.1	270.2	271.9	257.2	351.6	441.1	377.6	323.9	301.1	289.8
82.5°	289.8	240.9	227.9	234.4	234.4	335.4	421.6	354.9	301.1	291.4	253.9
85°	156.3	149.8	175.8	188.9	203.5	302.8	392.4	330.4	275.1	236.1	227.9
87.5°	76.5	97.6	99.3	113.9	141.6	242.6	330.4	276.7	229.5	190.4	187.2
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)