

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: McGRAW-EDISON

Report Number: P194231

Luminaire Tested: **GLEON-AF-03-LED-E1-5WQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-5WQ-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19141 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 166
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: 25 FT



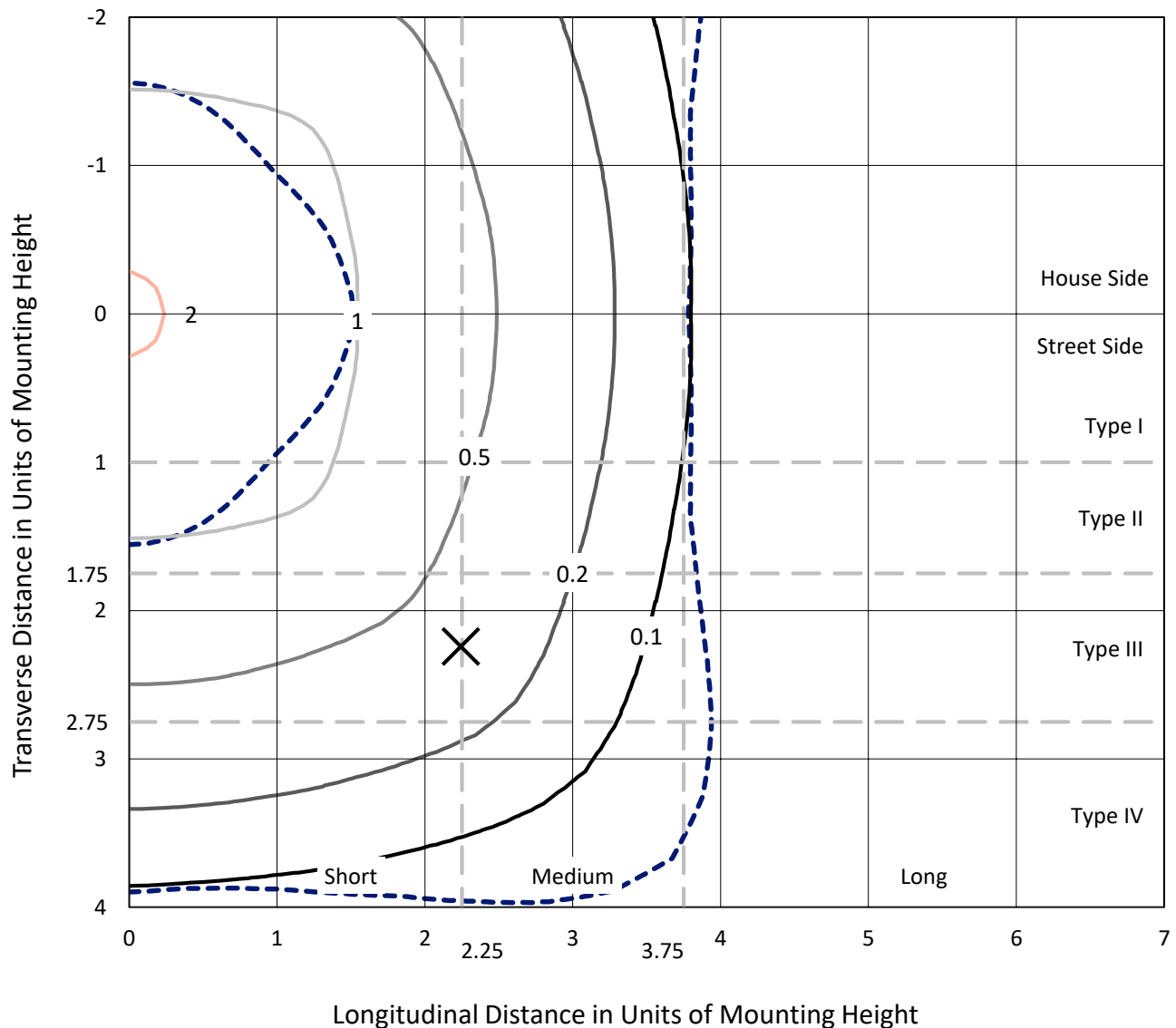
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

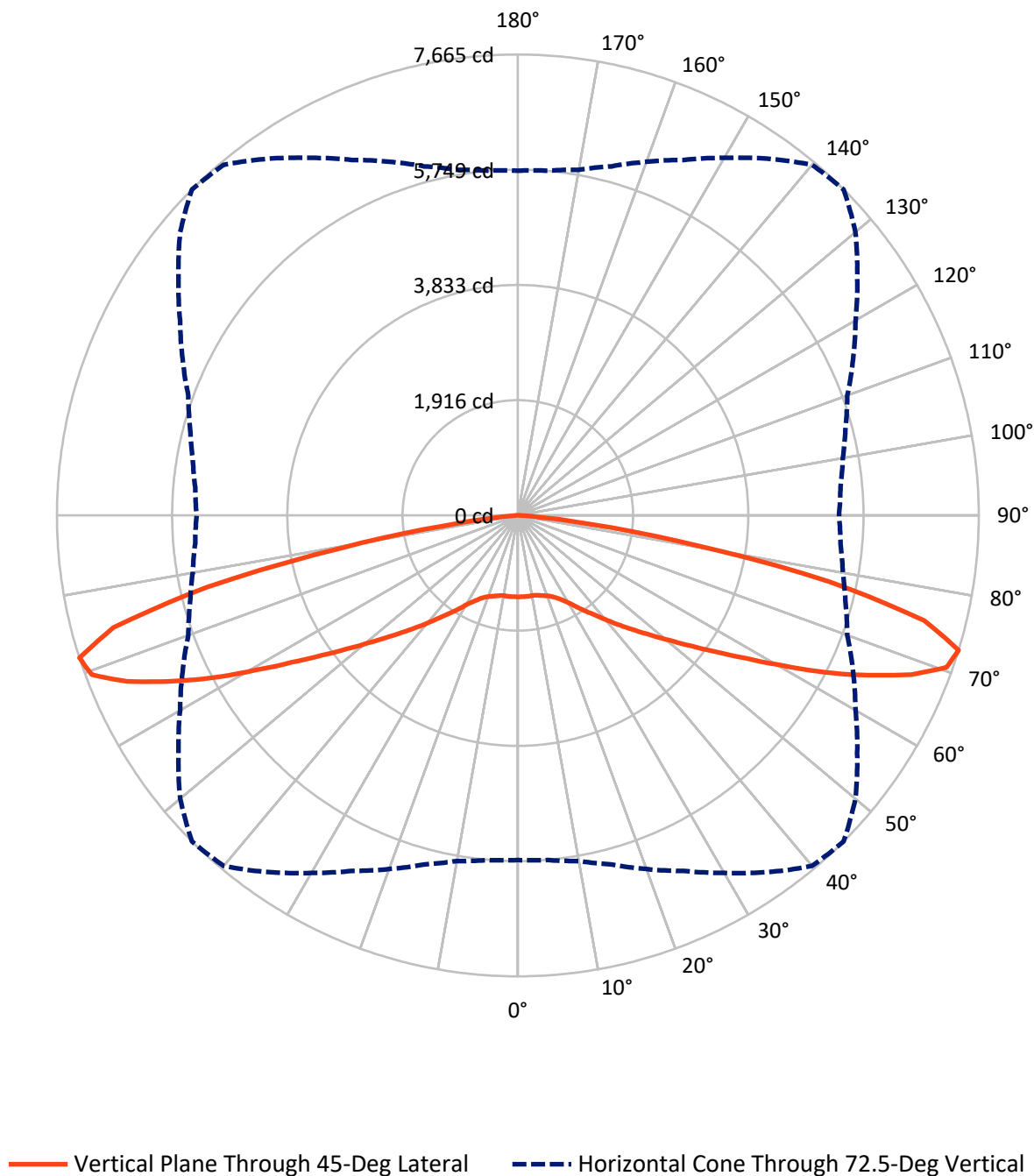


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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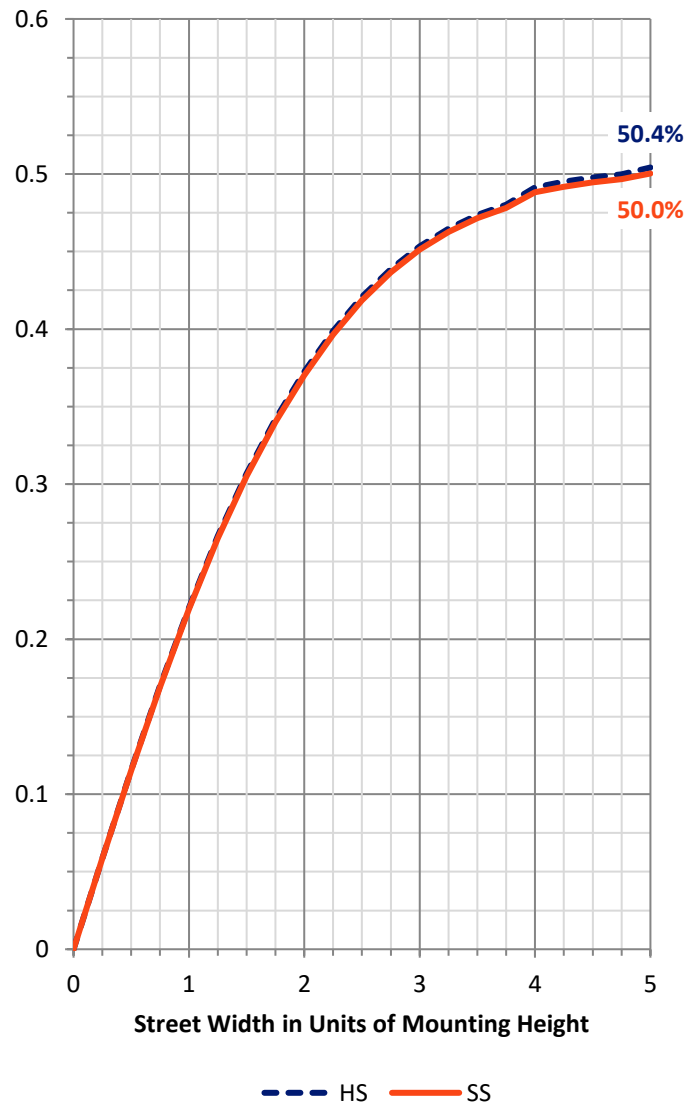
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9570.5	0.0	9570.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9570.5	0.0	9570.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19141.0	0.0	19141.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	0.7
10°-20°	393.1	2.1
20°-30°	718.4	3.8
30°-40°	1238.6	6.5
40°-50°	2117.3	11.1
50°-60°	3431.9	17.9
60°-70°	5693.4	29.7
70°-80°	5014.6	26.2
80°-90°	404.3	2.1
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°	19141.0	100.0
0°-180°	19141.0	100.0

Coefficient of Utilization



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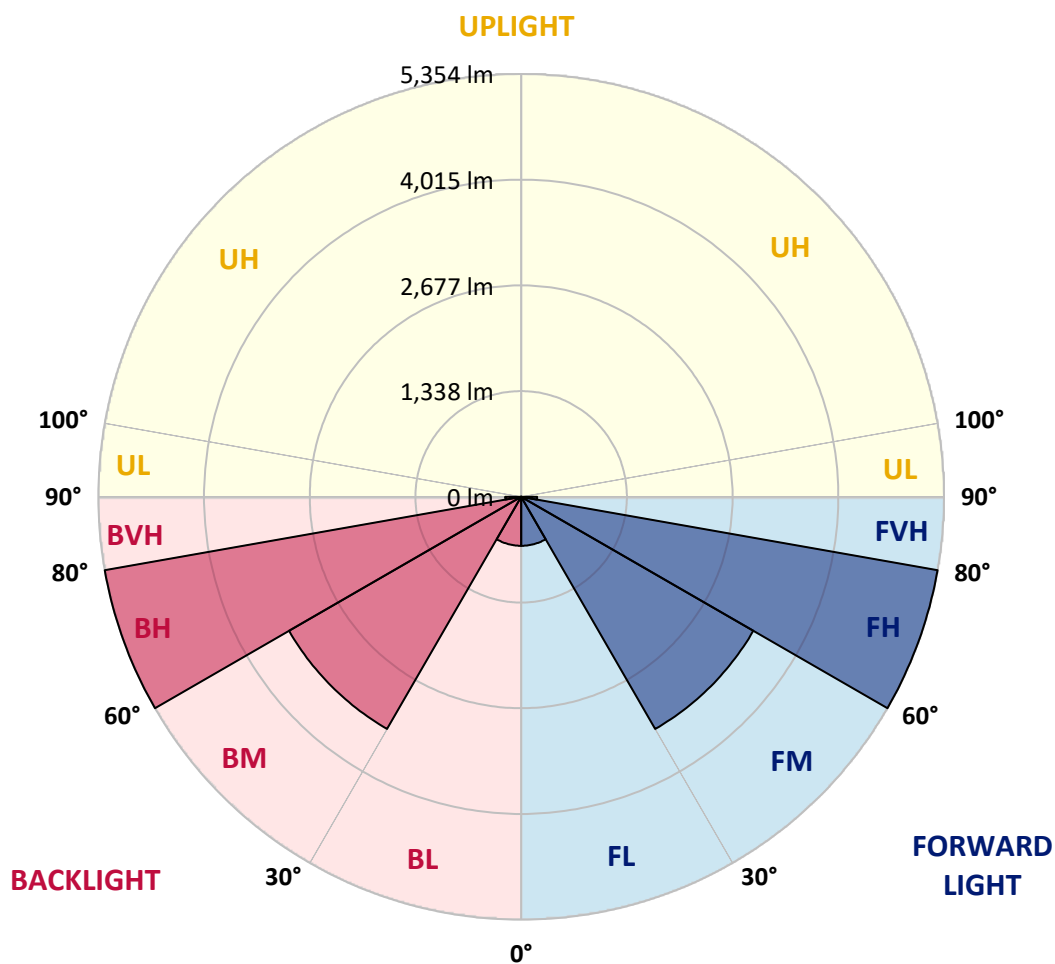
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	620.4	3.2			
FM	(30°-60°)	3393.9	17.7			
FH	(60°-80°)	5354.0	28.0			G3/7500
FVH	(80°-90°)	202.2	1.1			G2/225
BL	(0°-30°)	620.4	3.2	B2/1000		
BM	(30°-60°)	3393.9	17.7	B3/5000		
BH	(60°-80°)	5354.0	28.0	B5		G3/7500
BVH	(80°-90°)	202.2	1.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5
2.5°	1355.5	1356.4	1357.2	1356.4	1356.4	1355.5	1354.6	1355.5	1354.6	1352.8	1353.7
5°	1359.9	1361.6	1361.6	1359.9	1360.7	1359.9	1358.1	1359.0	1357.2	1354.6	1354.6
7.5°	1365.1	1366.0	1366.0	1364.3	1365.1	1363.4	1361.6	1360.7	1359.0	1355.5	1352.8
10°	1373.0	1373.9	1373.0	1371.3	1371.3	1368.6	1364.3	1362.5	1359.0	1353.7	1351.1
12.5°	1381.8	1382.7	1381.8	1380.1	1379.2	1374.8	1371.3	1368.6	1366.0	1361.6	1357.2
15°	1394.1	1395.9	1394.1	1390.6	1388.0	1384.5	1382.7	1383.6	1384.5	1380.9	1376.5
17.5°	1416.9	1417.8	1415.2	1407.3	1403.8	1400.3	1400.3	1402.0	1404.6	1402.9	1398.5
20°	1459.1	1456.4	1450.3	1440.6	1436.2	1430.1	1429.2	1430.1	1430.1	1429.2	1425.7
22.5°	1511.7	1510.0	1502.1	1489.8	1483.7	1480.1	1474.9	1470.5	1469.6	1467.0	1463.5
25°	1575.0	1574.1	1564.4	1553.9	1549.5	1545.1	1540.7	1534.6	1529.3	1523.2	1519.6
27.5°	1655.7	1652.2	1638.2	1632.9	1626.8	1624.1	1618.0	1610.9	1606.6	1598.7	1594.3
30°	1744.4	1744.4	1733.0	1731.2	1731.2	1725.1	1718.1	1705.8	1697.9	1690.0	1687.3
32.5°	1833.1	1833.9	1822.5	1826.0	1828.7	1833.1	1834.8	1830.4	1825.2	1824.3	1819.0
35°	1961.2	1957.7	1946.3	1948.9	1948.1	1947.2	1947.2	1956.8	1958.6	1960.4	1949.8
37.5°	2120.1	2120.1	2108.7	2108.7	2103.5	2098.2	2091.2	2097.3	2107.0	2109.6	2102.6
40°	2301.9	2308.0	2294.0	2293.1	2294.8	2278.2	2270.3	2279.9	2286.1	2296.6	2288.7
42.5°	2516.1	2511.7	2497.6	2495.9	2486.2	2481.0	2473.9	2481.8	2491.5	2498.5	2501.1
45°	2721.5	2718.0	2702.2	2702.2	2692.5	2688.1	2691.6	2704.8	2709.2	2718.9	2728.5
47.5°	2924.3	2919.9	2909.4	2913.8	2914.6	2922.5	2933.9	2946.2	2958.5	2971.7	2976.1
50°	3131.5	3132.4	3120.9	3131.5	3144.6	3166.6	3197.3	3217.5	3243.0	3259.6	3264.9
52.5°	3320.2	3323.7	3336.0	3360.6	3386.9	3430.0	3482.6	3531.8	3573.9	3602.0	3600.3
55°	3546.7	3552.0	3581.8	3624.0	3667.0	3732.0	3810.1	3897.0	3967.2	4007.6	3982.2
57.5°	3836.4	3847.8	3881.2	3938.3	4002.4	4086.6	4193.7	4324.5	4433.4	4487.8	4446.6
60°	4234.1	4241.1	4281.5	4344.7	4422.0	4526.5	4669.6	4845.1	4998.8	5070.8	5023.4
62.5°	4758.2	4771.4	4803.9	4868.0	4947.0	5065.5	5240.2	5459.7	5651.1	5751.1	5644.0
65°	5384.2	5426.3	5453.5	5518.5	5592.2	5717.8	5900.4	6135.7	6341.1	6406.9	6283.1
67.5°	6004.0	6040.8	6088.2	6162.9	6237.5	6378.8	6548.3	6776.5	7002.1	7061.8	6869.6
70°	6275.2	6296.3	6370.1	6471.9	6615.0	6781.8	6977.6	7233.9	7513.1	7562.2	7318.2
72.5°	5731.8	5752.9	5835.4	6008.4	6257.7	6522.8	6864.3	7240.9	7609.7	7665.0	7328.7
75°	4335.1	4300.8	4422.9	4652.0	4988.2	5357.8	5835.4	6375.3	6908.2	6977.6	6576.4
77.5°	2240.4	2236.0	2328.2	2612.6	3013.8	3434.4	3960.2	4570.4	5091.8	5302.5	4975.9
80°	631.2	638.2	682.1	823.5	1057.9	1361.6	1772.5	2344.0	2770.7	2988.4	2805.8
82.5°	247.6	266.9	283.6	309.9	340.6	385.4	514.5	765.5	1027.1	1227.3	1005.2
85°	88.7	94.8	134.3	158.9	161.5	170.3	194.0	226.5	273.0	325.7	267.8
87.5°	33.4	36.9	43.0	71.1	70.2	64.1	78.1	81.6	61.5	56.2	69.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5
2.5°	1352.0	1352.8	1352.8	1353.7	1354.6	1354.6	1356.4	1356.4
5°	1352.8	1352.8	1351.1	1352.0	1351.1	1351.1	1352.0	1352.0
7.5°	1351.1	1350.2	1348.5	1347.6	1345.8	1345.8	1345.8	1345.8
10°	1348.5	1347.6	1345.8	1344.9	1344.1	1344.1	1344.1	1344.1
12.5°	1355.5	1352.8	1351.1	1350.2	1350.2	1350.2	1350.2	1350.2
15°	1373.9	1367.8	1363.4	1363.4	1364.3	1366.0	1366.0	1367.8
17.5°	1396.7	1389.7	1385.3	1381.8	1383.6	1386.2	1388.0	1389.7
20°	1424.0	1420.4	1414.3	1410.8	1410.8	1414.3	1416.1	1416.9
22.5°	1461.7	1459.1	1456.4	1452.0	1452.0	1453.8	1457.3	1457.3
25°	1517.9	1516.1	1514.4	1510.9	1510.0	1510.0	1511.7	1513.5
27.5°	1588.1	1589.0	1587.2	1586.4	1583.7	1582.9	1585.5	1584.6
30°	1682.1	1686.4	1690.8	1687.3	1682.9	1680.3	1677.7	1674.2
32.5°	1809.4	1804.1	1800.6	1794.4	1786.5	1779.5	1774.2	1768.1
35°	1929.6	1920.8	1917.3	1922.6	1921.7	1917.3	1911.2	1905.9
37.5°	2077.1	2075.4	2077.1	2086.8	2085.0	2089.4	2077.1	2076.2
40°	2263.2	2265.0	2277.3	2288.7	2294.8	2301.0	2294.0	2286.9
42.5°	2479.2	2478.3	2482.7	2498.5	2509.0	2516.1	2501.1	2499.4
45°	2707.4	2701.3	2704.8	2718.0	2728.5	2736.4	2719.7	2719.7
47.5°	2958.5	2948.0	2936.6	2951.5	2957.7	2962.9	2949.7	2945.4
50°	3238.6	3216.6	3192.1	3198.2	3198.2	3196.4	3179.8	3178.9
52.5°	3559.9	3519.5	3474.7	3458.1	3448.4	3437.9	3408.9	3394.8
55°	3929.5	3868.9	3798.7	3755.7	3732.8	3703.9	3655.6	3642.4
57.5°	4361.4	4266.6	4145.5	4092.8	4041.9	3994.5	3940.9	3926.0
60°	4873.2	4733.6	4573.0	4475.5	4420.2	4374.6	4319.3	4316.6
62.5°	5443.9	5223.5	5041.8	4954.0	4913.6	4873.2	4820.6	4827.6
65°	6024.2	5794.2	5623.8	5552.7	5515.0	5481.6	5428.9	5436.8
67.5°	6596.6	6385.0	6198.0	6125.1	6083.0	6040.8	5993.4	6001.3
70°	7007.4	6744.9	6534.2	6372.7	6271.7	6157.6	6083.9	6065.4
72.5°	6889.8	6485.1	6150.6	5830.1	5642.3	5489.5	5385.9	5341.2
75°	5962.7	5409.6	4979.5	4586.2	4364.9	4185.0	4054.1	3972.5
77.5°	4428.1	3806.6	3298.3	2845.3	2487.1	2246.6	2077.1	1967.4
80°	2423.9	1843.6	1347.6	947.3	696.2	578.5	510.9	478.5
82.5°	755.0	487.2	359.1	309.9	288.0	275.7	255.5	223.0
85°	240.5	210.7	195.8	187.0	178.2	155.4	107.1	97.4
87.5°	93.1	95.7	94.8	89.5	91.3	65.8	52.7	46.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)