

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: P193190

Luminaire Tested: **GLEON-AF-02-LED-E1-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-T3-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11781.4 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 113
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



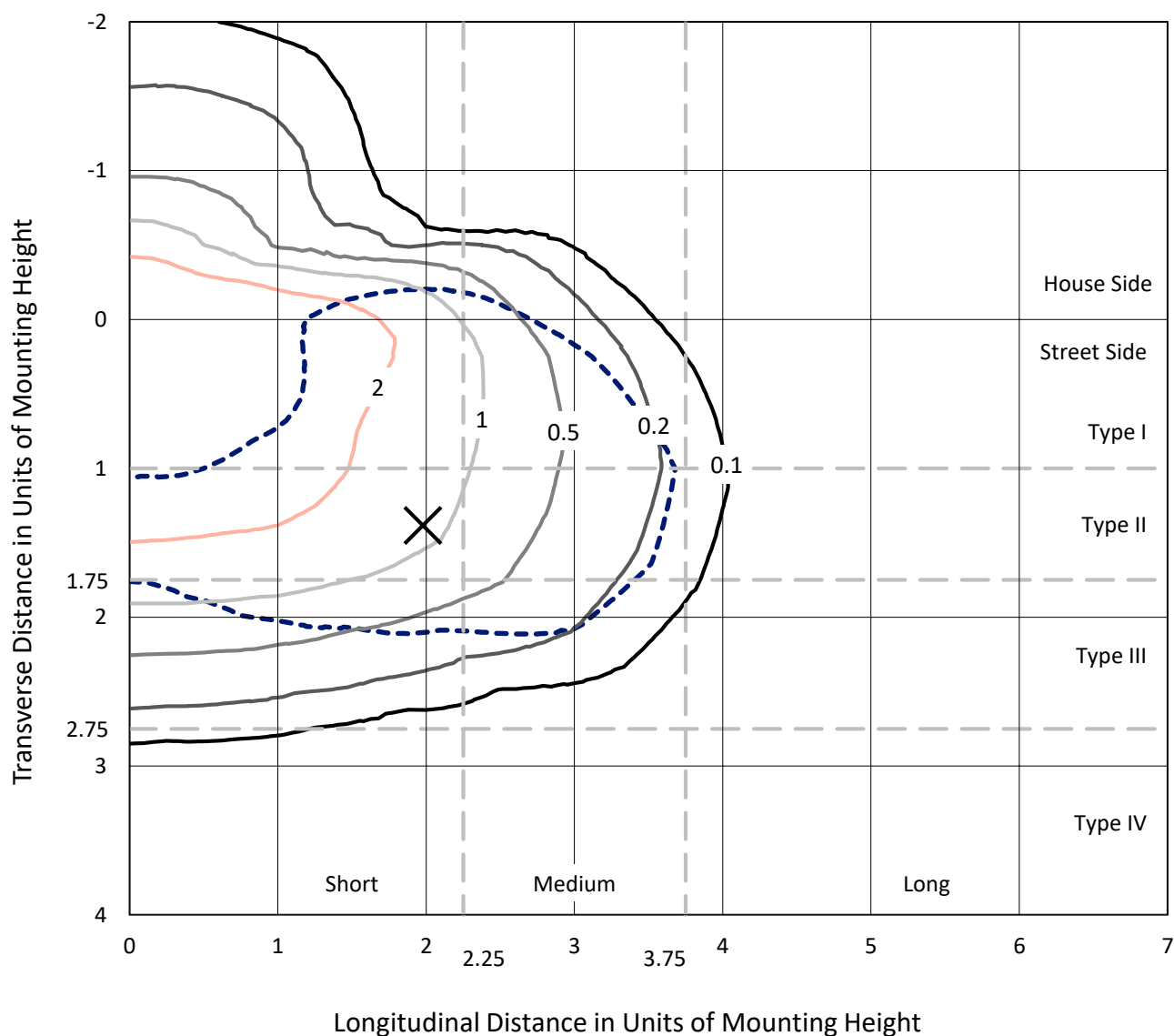
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

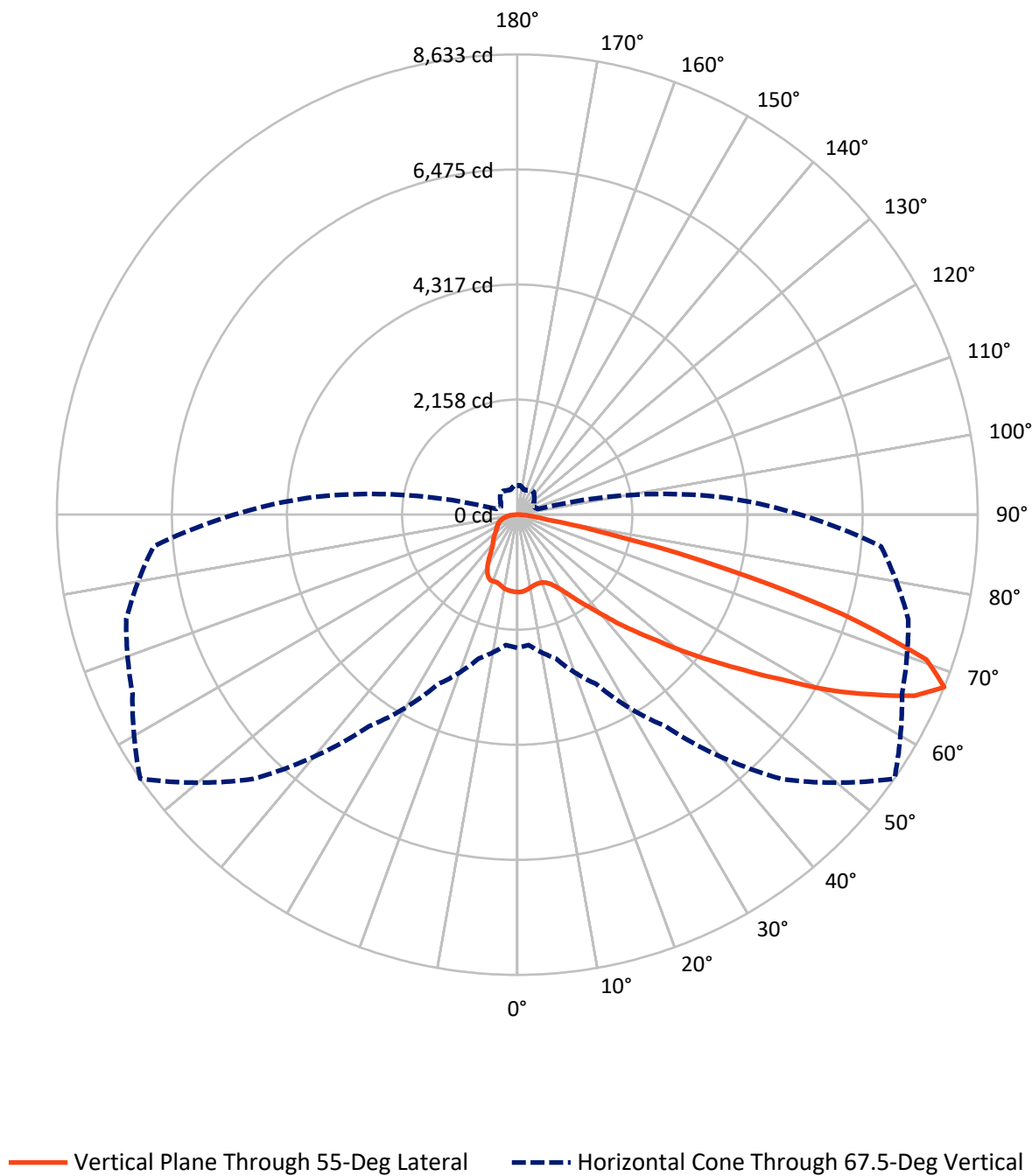


Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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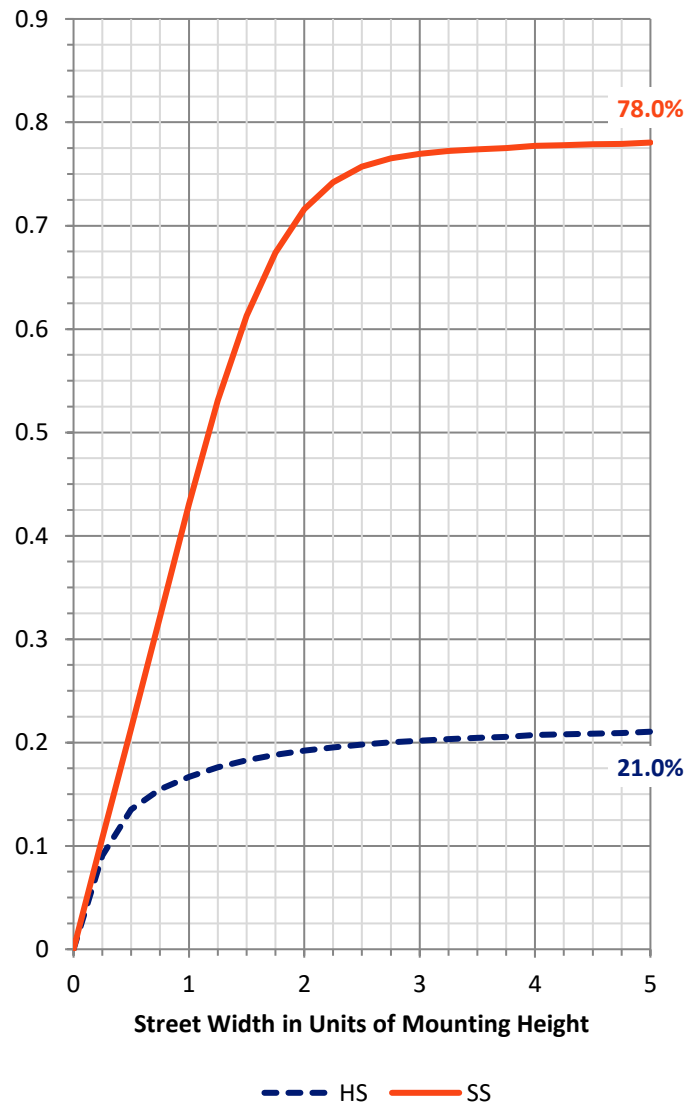
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2545.0	0.0	2545.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	9236.4	0.0	9236.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	11781.4	0.0	11781.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	1.2
10°-20°	384.0	3.3
20°-30°	643.3	5.5
30°-40°	1057.9	9.0
40°-50°	1780.8	15.1
50°-60°	2802.8	23.8
60°-70°	3344.8	28.4
70°-80°	1436.3	12.2
80°-90°	195.8	1.7
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°	11781.4	100.0
0°-180°	11781.4	100.0

Coefficient of Utilization



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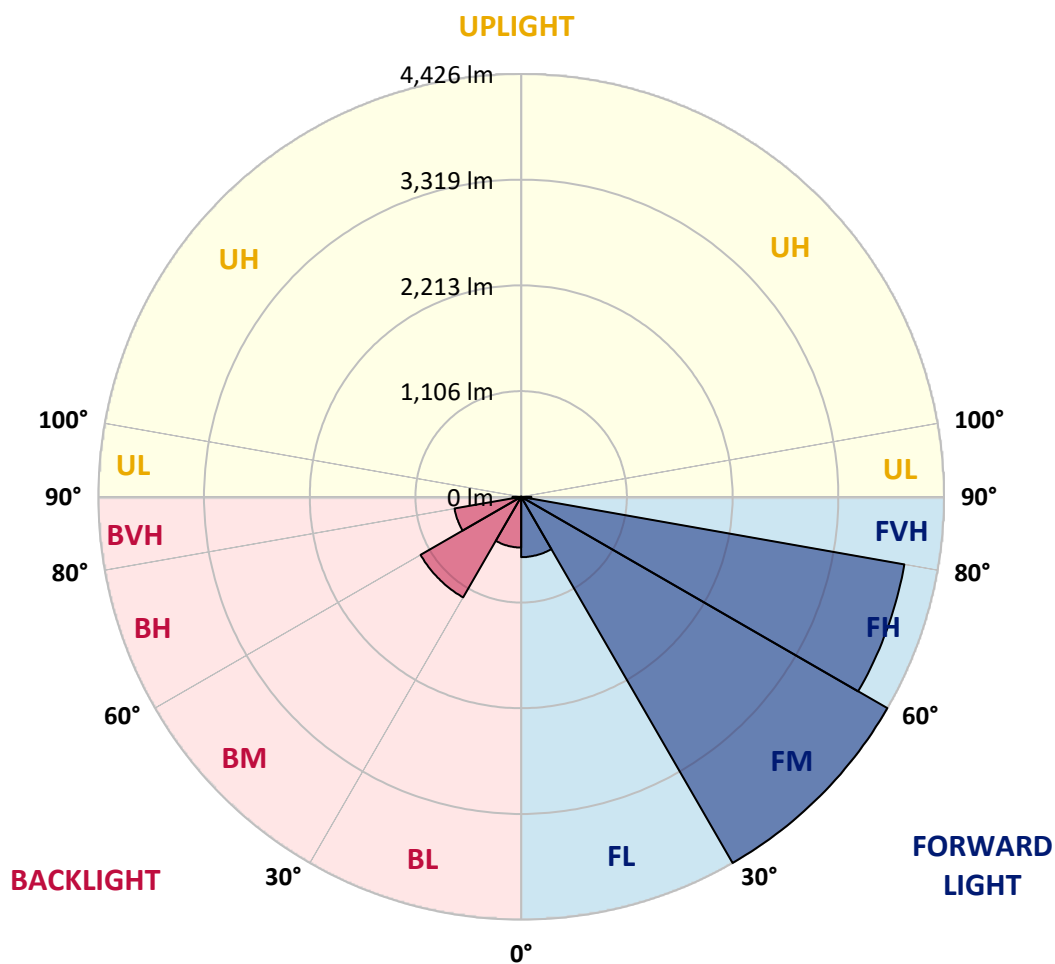
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	631.5	5.4			
FM	(30°-60°)	4426.0	37.6			
FH	(60°-80°)	4072.9	34.6			G2/5000
FVH	(80°-90°)	106.0	0.9			G2/225
BL	(0°-30°)	531.5	4.5	B2/1000		
BM	(30°-60°)	1215.5	10.3	B2/2500		
BH	(60°-80°)	708.3	6.0	B2/1000		G2/1000
BVH	(80°-90°)	89.8	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8
2.5°	1440.2	1440.8	1442.0	1446.5	1450.5	1449.4	1450.0	1447.6	1447.1	1443.7	1447.1
5°	1422.0	1423.7	1424.3	1431.8	1436.3	1437.5	1435.6	1432.8	1429.4	1426.1	1427.7
7.5°	1380.5	1385.1	1385.6	1395.9	1403.3	1412.9	1413.5	1414.1	1412.4	1410.1	1413.5
10°	1354.4	1355.5	1355.0	1362.4	1368.0	1378.9	1385.1	1395.9	1400.3	1401.6	1403.9
12.5°	1352.6	1351.5	1349.8	1349.8	1348.0	1352.6	1364.0	1379.4	1390.3	1393.6	1396.5
15°	1370.8	1370.2	1364.5	1356.0	1345.2	1341.8	1351.5	1368.6	1382.7	1390.3	1393.0
17.5°	1411.8	1408.4	1399.3	1380.0	1356.6	1347.5	1348.7	1362.9	1379.4	1389.0	1391.9
20°	1486.9	1486.9	1467.6	1431.2	1389.7	1368.0	1357.8	1366.3	1382.2	1395.4	1399.3
22.5°	1616.7	1617.8	1585.4	1525.6	1455.7	1409.6	1383.9	1382.2	1401.0	1415.8	1420.4
25°	1800.5	1795.9	1750.5	1665.0	1558.6	1482.3	1438.0	1427.7	1443.7	1460.1	1465.8
27.5°	2014.4	1998.0	1943.8	1840.9	1703.2	1591.6	1523.3	1506.8	1522.2	1541.0	1546.7
30°	2226.1	2209.0	2144.8	2032.1	1879.0	1737.9	1640.0	1613.2	1634.8	1661.7	1665.0
32.5°	2437.8	2437.8	2366.1	2234.7	2068.0	1912.6	1795.3	1763.5	1799.3	1831.7	1839.2
35°	2691.0	2692.1	2622.8	2464.6	2285.2	2120.8	1991.7	1968.3	2022.4	2045.2	2062.9
37.5°	3002.3	3008.6	2919.2	2727.9	2531.6	2358.7	2205.1	2173.1	2227.2	2289.3	2346.3
40°	3338.6	3346.6	3248.2	3012.5	2816.2	2635.3	2469.2	2411.6	2501.5	2619.9	2693.3
42.5°	3659.5	3700.5	3605.4	3363.1	3151.9	2964.8	2796.3	2712.7	2825.3	3004.0	3067.8
45°	4123.3	4153.0	3987.3	3767.7	3569.1	3359.6	3136.7	3048.4	3206.0	3431.4	3444.4
47.5°	4432.3	4410.1	4325.9	4189.3	4063.6	3867.8	3532.1	3435.3	3644.8	3910.0	3836.5
50°	4596.7	4603.6	4592.1	4600.2	4604.7	4481.9	4016.9	3884.2	4134.2	4454.5	4285.4
52.5°	4750.4	4704.9	4742.4	4929.1	5154.5	5109.0	4544.4	4406.1	4658.9	5058.8	4760.1
55°	4747.0	4677.6	4799.9	5129.4	5618.2	5670.5	5136.9	4977.5	5213.7	5706.9	5263.1
57.5°	4579.2	4582.6	4771.0	5202.3	5941.4	6198.6	5824.2	5585.3	5802.0	6363.7	5722.4
60°	4348.1	4379.4	4650.8	5190.3	6200.4	6631.7	6667.5	6240.2	6378.4	6960.6	6102.4
62.5°	3975.4	4008.4	4382.8	5066.3	6161.1	7048.8	7430.0	6983.3	6981.1	7322.5	6214.0
65°	3387.6	3377.9	3771.1	4602.4	5831.6	7357.2	8187.5	7625.9	7435.2	7328.2	5989.8
67.5°	2498.1	2454.8	2792.3	3505.4	4847.2	7011.8	8633.0	7960.4	7589.9	6846.1	5304.6
70°	1296.3	1253.1	1526.2	2046.9	3187.8	5472.6	8139.7	7787.5	7247.9	5738.9	4155.7
72.5°	554.3	546.9	657.8	898.0	1542.0	3156.5	6382.5	6740.4	6219.1	4275.9	2857.2
75°	372.7	370.5	412.0	489.4	693.7	1280.9	3994.2	4784.6	4550.1	2651.1	1606.9
77.5°	292.5	289.6	314.1	351.7	449.6	505.4	1772.6	2568.6	2377.5	1154.0	703.3
80°	228.8	226.5	241.8	262.3	323.2	318.7	583.2	1022.0	790.9	442.2	342.0
82.5°	180.4	180.4	193.0	193.5	229.3	217.4	304.4	450.1	395.0	257.8	209.4
85°	165.0	165.0	178.1	144.5	149.6	137.1	188.9	266.9	250.4	105.9	91.0
87.5°	83.0	80.9	149.6	128.1	81.4	72.8	92.3	129.2	138.9	58.6	45.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8
2.5°	1445.9	1445.4	1446.5	1447.1	1451.6	1457.8	1460.8	1464.7	1467.1	1465.8
5°	1428.9	1429.9	1434.6	1438.0	1445.9	1456.2	1461.9	1466.5	1470.4	1468.7
7.5°	1414.7	1417.5	1424.3	1427.2	1431.8	1434.6	1434.0	1435.6	1439.2	1435.1
10°	1406.7	1410.1	1415.2	1411.2	1400.3	1385.1	1370.8	1363.4	1365.7	1362.9
12.5°	1398.7	1403.3	1399.3	1380.5	1350.3	1330.4	1319.7	1320.7	1325.9	1327.1
15°	1394.1	1395.9	1378.9	1343.6	1312.8	1309.9	1315.6	1314.5	1315.1	1315.1
17.5°	1394.1	1389.7	1357.8	1322.5	1309.4	1304.2	1286.6	1264.4	1254.8	1251.3
20°	1401.6	1389.7	1350.9	1327.6	1299.1	1255.3	1208.6	1167.7	1149.5	1144.4
22.5°	1423.7	1403.3	1370.2	1329.9	1249.1	1175.6	1101.7	1052.7	1019.7	1014.0
25°	1468.7	1445.9	1408.4	1299.7	1169.4	1064.7	980.5	925.9	892.8	888.3
27.5°	1547.2	1532.5	1428.9	1233.1	1063.5	951.4	873.5	831.4	806.9	805.2
30°	1665.5	1658.2	1418.6	1134.6	933.3	841.7	804.0	779.6	761.4	760.8
32.5°	1854.5	1794.8	1385.1	1014.6	814.3	763.6	748.3	733.4	719.3	719.3
35°	2097.6	1905.2	1321.4	886.0	742.1	720.4	701.1	677.7	659.0	657.8
37.5°	2383.2	1973.4	1207.0	782.4	707.9	691.4	662.9	628.2	595.3	589.6
40°	2671.7	1994.0	1045.9	718.7	686.2	662.3	627.7	586.7	554.8	553.1
42.5°	2936.3	1954.6	875.1	674.9	664.7	632.8	596.3	560.0	535.0	534.4
45°	3158.2	1852.8	731.8	633.3	641.9	606.1	573.6	544.0	524.7	520.7
47.5°	3367.1	1708.9	631.1	589.6	619.2	591.2	563.9	536.0	517.3	514.4
50°	3609.5	1553.4	560.5	546.9	599.2	586.0	571.9	542.9	511.6	508.2
52.5°	3903.1	1419.2	505.4	509.2	583.9	592.9	592.4	562.2	507.6	503.0
55°	4230.8	1270.1	463.8	478.5	577.6	605.6	597.5	580.3	511.0	504.1
57.5°	4553.5	1096.0	434.8	455.3	568.4	604.3	573.1	548.6	519.0	509.2
60°	4795.4	862.0	412.6	434.8	548.6	585.5	546.3	513.8	517.3	509.9
62.5°	4811.3	666.4	385.8	417.2	518.4	566.7	528.6	498.4	524.7	517.8
65°	4528.5	503.5	360.2	396.1	485.9	554.8	511.6	489.9	540.1	532.6
67.5°	3812.6	405.2	338.6	374.4	453.5	529.8	496.2	482.0	553.7	540.7
70°	2752.5	345.4	317.5	348.2	424.5	501.3	482.6	467.7	516.7	496.2
72.5°	1694.6	299.4	293.6	313.6	402.3	471.8	462.0	441.0	465.5	448.9
75°	846.2	259.5	266.9	279.3	371.1	438.1	428.0	406.9	410.3	406.9
77.5°	405.2	221.9	235.6	245.3	330.6	400.0	389.2	367.6	363.7	364.2
80°	256.6	185.5	198.7	205.4	295.3	355.6	344.8	323.2	368.8	342.0
82.5°	160.5	150.8	154.2	166.7	257.2	309.5	295.3	276.0	332.3	262.9
85°	88.7	105.3	109.8	120.6	198.0	259.0	244.7	220.2	197.4	194.1
87.5°	52.9	62.6	64.4	72.2	133.2	187.3	165.6	157.0	130.3	129.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)