

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: P192531

Luminaire Tested: **GLEON-AF-03-LED-E1-5MQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12164.9 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 96
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



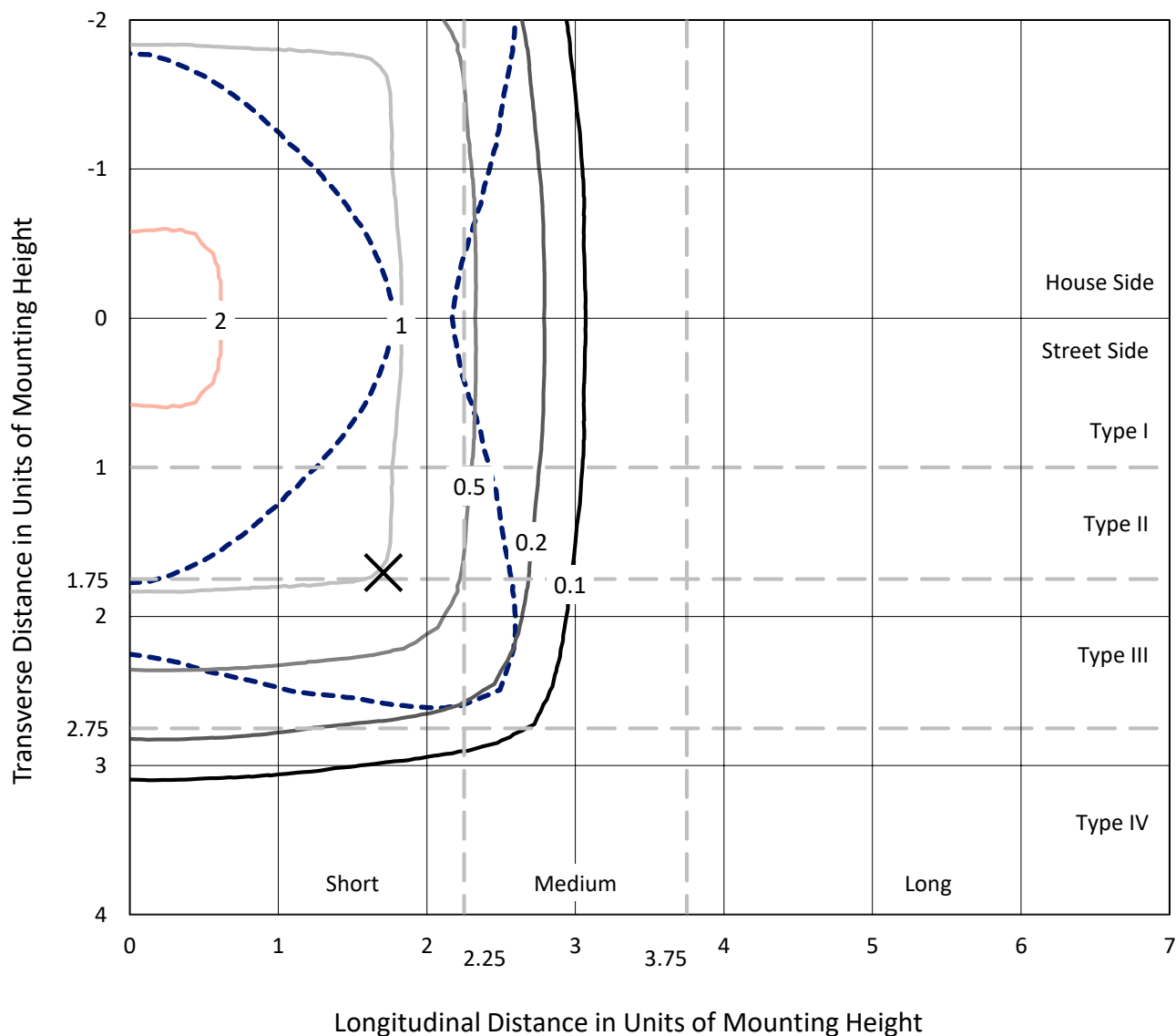
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

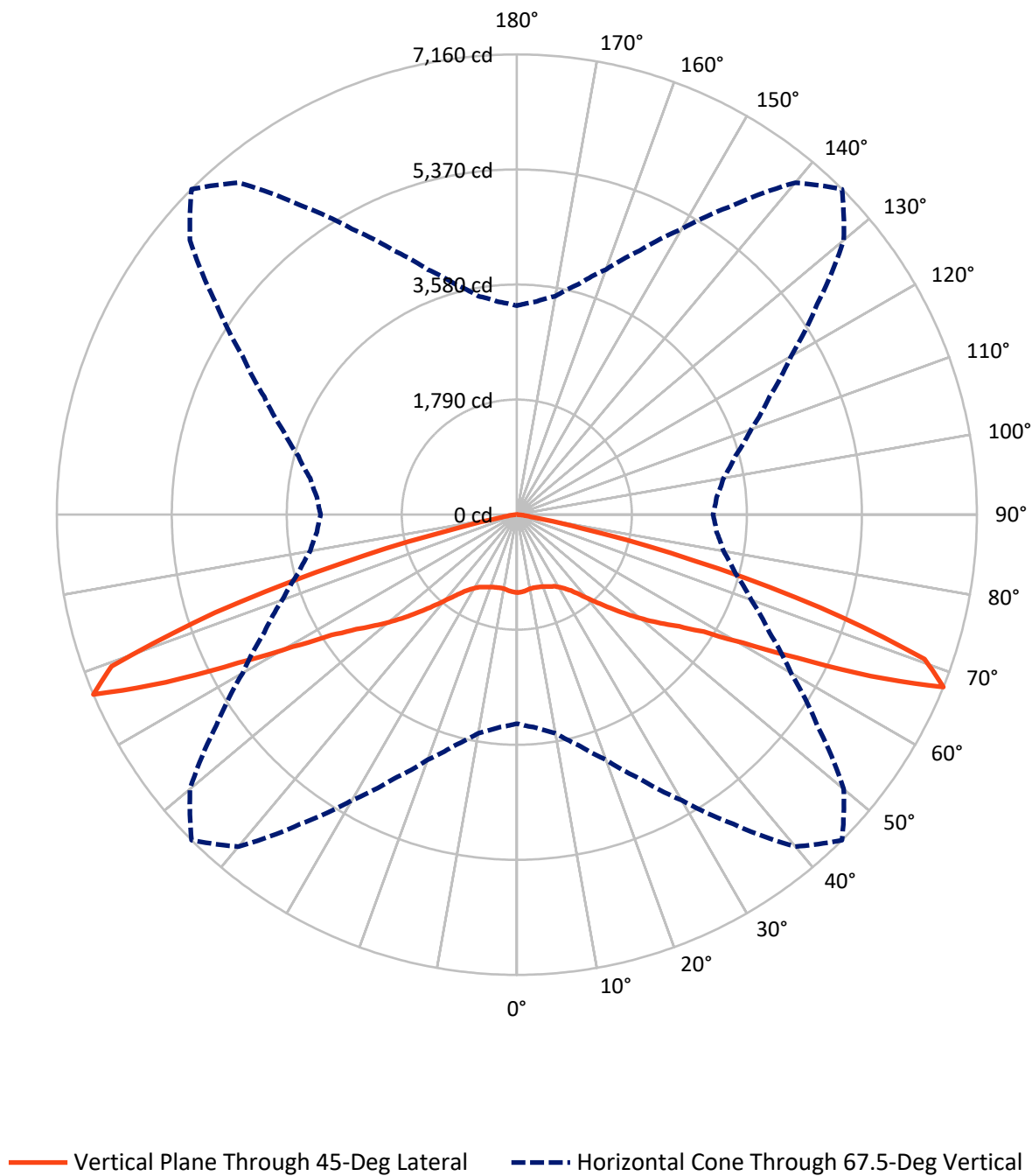


Based on 20 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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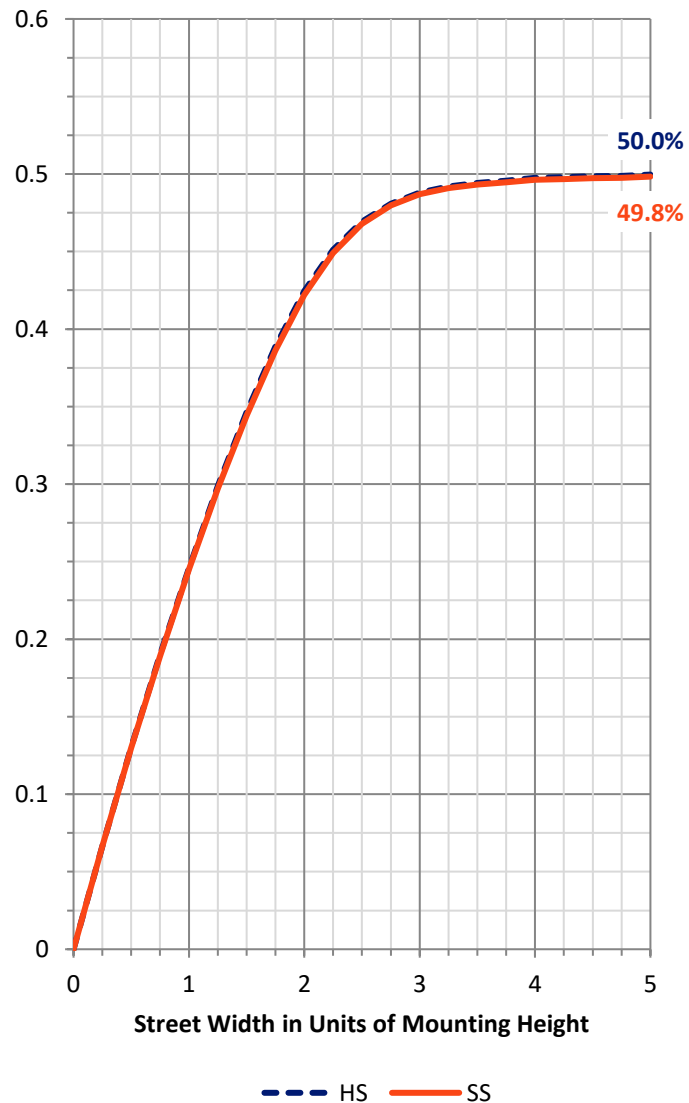
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6082.5	0.0	6082.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6082.5	0.0	6082.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12164.9	0.0	12164.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	0.9
10°-20°	329.3	2.7
20°-30°	559.7	4.6
30°-40°	915.0	7.5
40°-50°	1633.4	13.4
50°-60°	2753.9	22.6
60°-70°	4273.7	35.1
70°-80°	1501.6	12.3
80°-90°	84.9	0.7
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°	12164.9	100.0
0°-180°	12164.9	100.0

Coefficient of Utilization



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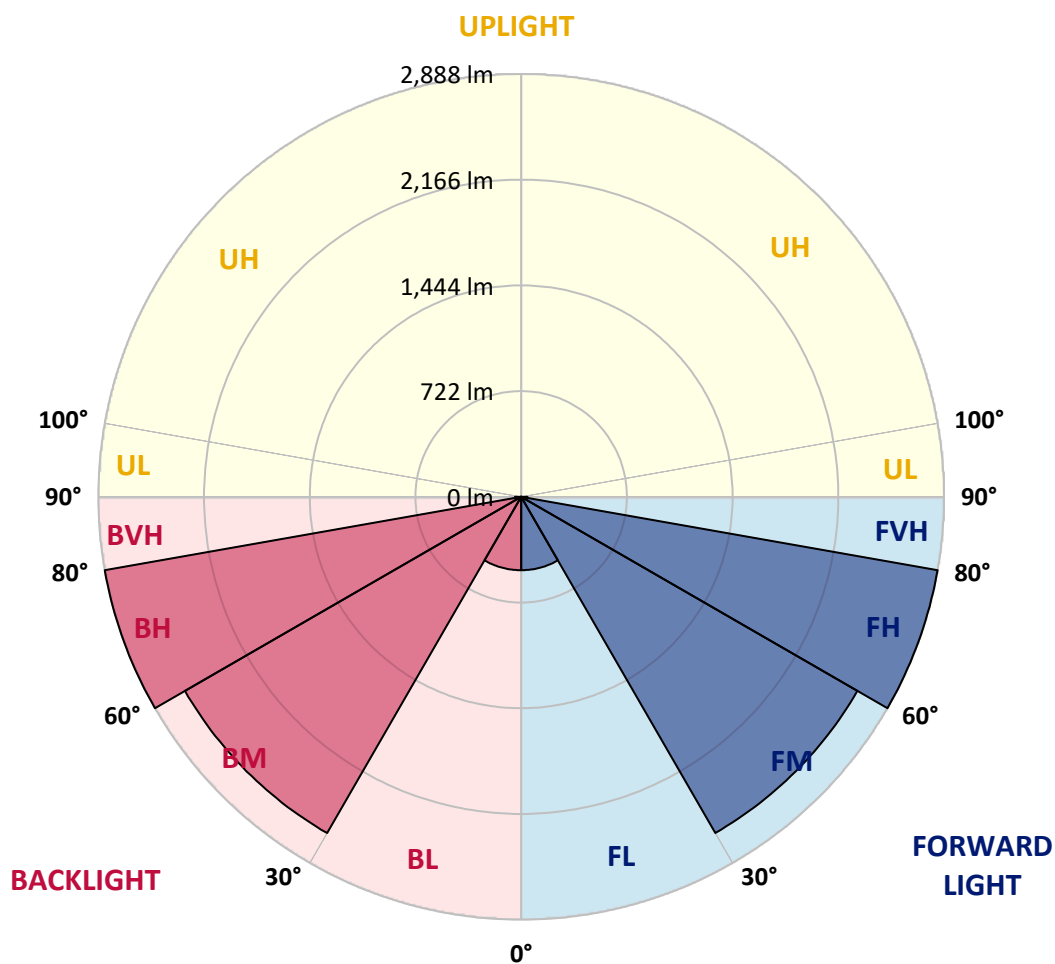
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	501.2	4.1			
FM	(30°-60°)	2651.2	21.8			
FH	(60°-80°)	2887.7	23.7			G2/5000
FVH	(80°-90°)	42.4	0.3			G1/100
BL	(0°-30°)	501.2	4.1	B2/1000		
BM	(30°-60°)	2651.2	21.8	B3/5000		
BH	(60°-80°)	2887.7	23.7	B4/5000		G2/5000
BVH	(80°-90°)	42.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3
2.5°	1207.9	1209.0	1209.0	1209.0	1208.4	1208.4	1207.2	1208.4	1207.9	1206.1	1206.7
5°	1197.7	1198.9	1198.9	1198.2	1200.0	1199.4	1197.7	1198.9	1198.2	1197.2	1197.7
7.5°	1183.2	1184.9	1184.9	1184.3	1186.0	1185.5	1184.3	1184.9	1184.9	1183.2	1183.2
10°	1167.0	1168.1	1168.1	1167.6	1170.2	1170.2	1169.7	1171.5	1172.1	1170.2	1169.2
12.5°	1151.9	1153.6	1153.6	1155.8	1158.5	1159.7	1162.5	1164.7	1167.0	1166.5	1164.1
15°	1143.0	1144.1	1146.2	1149.1	1153.6	1157.5	1162.0	1167.0	1171.5	1172.6	1169.2
17.5°	1137.3	1139.0	1142.3	1146.2	1152.4	1159.1	1165.9	1172.6	1178.7	1181.0	1177.0
20°	1135.6	1136.8	1140.1	1146.7	1155.2	1165.2	1174.7	1182.6	1191.0	1193.8	1191.0
22.5°	1139.0	1141.2	1145.1	1153.0	1164.1	1177.0	1188.2	1198.9	1209.5	1214.5	1210.6
25°	1154.1	1156.3	1161.4	1171.5	1183.8	1197.2	1210.0	1222.4	1231.9	1237.0	1234.1
27.5°	1182.0	1184.9	1191.0	1201.1	1214.5	1229.0	1243.1	1253.1	1261.0	1262.6	1259.3
30°	1224.0	1230.1	1237.5	1248.7	1264.3	1276.5	1290.6	1299.5	1309.0	1309.0	1306.3
32.5°	1289.5	1295.6	1303.5	1314.1	1326.4	1339.8	1352.2	1360.0	1370.0	1370.6	1363.9
35°	1387.4	1390.3	1396.9	1403.7	1414.8	1426.6	1437.2	1442.2	1450.6	1451.2	1445.1
37.5°	1516.6	1517.2	1521.7	1523.8	1534.0	1546.8	1557.0	1560.2	1568.1	1567.0	1560.8
40°	1667.1	1669.9	1671.5	1675.0	1685.6	1697.9	1708.5	1710.1	1718.5	1716.9	1709.1
42.5°	1841.1	1842.2	1851.7	1856.8	1866.8	1872.9	1886.4	1888.1	1898.2	1893.7	1884.7
45°	2036.4	2046.4	2055.3	2065.4	2076.0	2083.3	2094.0	2091.7	2098.5	2091.7	2086.7
47.5°	2241.7	2248.9	2269.1	2284.7	2302.1	2308.2	2323.3	2316.7	2323.3	2313.8	2312.2
50°	2467.6	2480.5	2497.8	2515.8	2534.3	2544.3	2563.9	2555.5	2564.5	2555.5	2550.4
52.5°	2690.3	2693.7	2731.7	2758.0	2783.7	2795.5	2807.2	2803.3	2803.9	2803.3	2798.2
55°	2901.8	2909.6	2947.6	2983.5	3028.2	3061.2	3081.3	3079.2	3074.1	3069.0	3060.7
57.5°	3140.1	3147.9	3191.6	3235.7	3286.6	3333.6	3374.5	3416.4	3432.7	3437.2	3418.7
60°	3462.3	3461.8	3519.9	3573.7	3646.4	3716.4	3805.8	3897.0	4001.6	4050.2	3986.0
62.5°	3790.1	3803.6	3887.5	3982.6	4132.5	4278.5	4443.6	4605.9	4771.4	4906.2	4762.9
65°	3751.0	3802.4	3927.3	4142.6	4419.5	4748.4	5104.3	5480.8	5820.9	6054.7	5792.4
67.5°	3250.9	3324.1	3451.2	3712.9	4059.2	4533.6	5131.2	5875.8	6741.2	7159.5	6641.0
70°	2356.2	2439.1	2572.3	2827.9	3170.8	3621.7	4270.7	5164.6	6310.4	6732.2	6161.0
72.5°	1172.6	1217.3	1299.5	1462.3	1721.9	2087.8	2676.3	3535.6	4549.3	4936.5	4414.5
75°	398.4	419.0	433.0	486.1	568.3	712.2	1004.7	1545.7	2358.1	2826.7	2324.4
77.5°	229.9	230.5	240.1	249.5	263.6	279.1	318.3	417.9	722.8	1026.6	748.0
80°	148.8	148.3	156.1	163.4	172.8	180.8	182.9	193.6	223.2	264.6	236.6
82.5°	77.2	86.8	104.1	113.5	131.4	134.8	130.3	126.4	133.8	138.8	142.1
85°	42.5	36.9	55.4	71.6	79.4	80.6	80.6	76.1	78.8	77.2	83.9
87.5°	19.5	17.9	21.9	35.3	37.4	31.9	33.6	29.6	21.3	20.6	23.5
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°	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3
2.5°	1206.7	1207.2	1207.2	1209.0	1209.5	1210.6	1211.6	1212.3
5°	1197.2	1198.9	1197.7	1199.4	1199.4	1200.5	1200.5	1201.1
7.5°	1183.2	1184.9	1184.9	1184.9	1184.3	1186.0	1186.0	1186.0
10°	1168.6	1169.7	1169.2	1168.1	1167.0	1168.6	1168.1	1167.6
12.5°	1164.1	1161.4	1159.1	1158.0	1155.8	1156.3	1154.7	1154.7
15°	1167.0	1162.0	1158.0	1156.3	1154.1	1153.0	1151.9	1152.4
17.5°	1174.2	1168.1	1163.1	1160.3	1157.5	1155.8	1153.6	1154.1
20°	1187.1	1179.9	1172.6	1167.0	1162.0	1159.1	1157.5	1156.9
22.5°	1206.1	1195.6	1184.9	1176.5	1169.7	1165.9	1164.1	1163.1
25°	1228.0	1216.2	1203.9	1194.4	1187.6	1182.6	1179.2	1179.2
27.5°	1255.4	1245.9	1234.6	1223.4	1217.3	1212.3	1210.0	1209.0
30°	1301.3	1292.3	1283.4	1272.7	1264.9	1259.9	1255.9	1252.5
32.5°	1360.0	1352.7	1345.4	1337.6	1330.3	1323.5	1317.4	1314.6
35°	1442.8	1437.2	1432.2	1423.2	1420.4	1416.4	1413.2	1410.3
37.5°	1557.0	1554.6	1554.6	1545.2	1543.0	1541.2	1537.9	1538.5
40°	1706.8	1709.1	1706.3	1703.0	1701.2	1696.8	1696.8	1700.6
42.5°	1884.1	1885.9	1892.1	1886.4	1892.6	1886.9	1883.6	1886.4
45°	2090.0	2096.1	2108.4	2102.9	2106.8	2097.3	2085.5	2086.1
47.5°	2321.1	2326.6	2331.7	2327.8	2328.4	2312.7	2297.0	2293.2
50°	2561.0	2563.3	2566.1	2560.5	2561.6	2544.3	2526.4	2526.9
52.5°	2798.2	2808.9	2820.1	2805.0	2801.6	2782.1	2756.8	2746.8
55°	3069.6	3084.7	3071.9	3045.5	3019.3	2992.9	2960.0	2954.4
57.5°	3404.1	3378.4	3338.1	3288.3	3252.0	3215.1	3181.5	3167.5
60°	3869.6	3772.8	3700.1	3626.2	3579.8	3534.5	3490.3	3483.6
62.5°	4527.4	4360.2	4215.3	4062.6	3937.8	3840.5	3762.8	3740.9
65°	5352.1	4956.5	4613.6	4293.7	4015.6	3805.8	3673.8	3615.6
67.5°	5706.7	4925.7	4337.8	3883.6	3519.9	3266.0	3123.2	3052.2
70°	5014.8	4084.9	3445.5	2990.8	2659.5	2388.7	2259.6	2183.4
72.5°	3450.0	2598.5	2054.8	1677.1	1412.6	1186.0	1096.5	1089.8
75°	1549.1	1026.0	707.1	544.8	458.8	398.9	380.4	366.4
77.5°	433.5	320.5	285.8	267.3	249.5	228.8	220.9	222.7
80°	210.9	199.2	191.3	179.6	163.4	146.0	138.2	141.5
82.5°	139.9	138.2	143.2	134.8	111.3	94.5	79.4	72.7
85°	85.0	86.2	87.9	88.4	75.0	52.6	35.8	40.3
87.5°	33.6	38.6	41.9	43.6	40.9	25.1	20.1	20.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)