

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: P192611

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192611
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12196.6 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-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



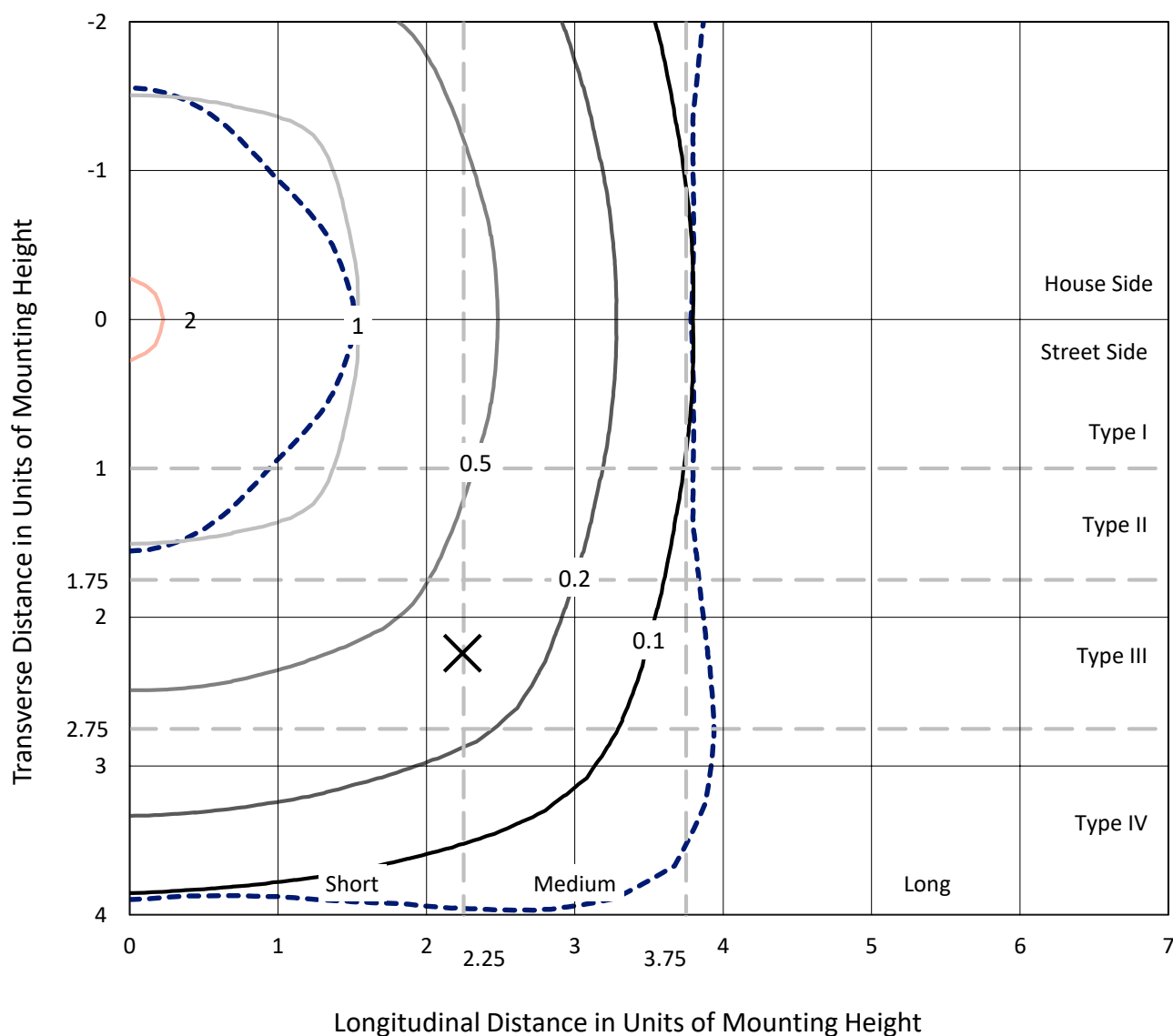
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

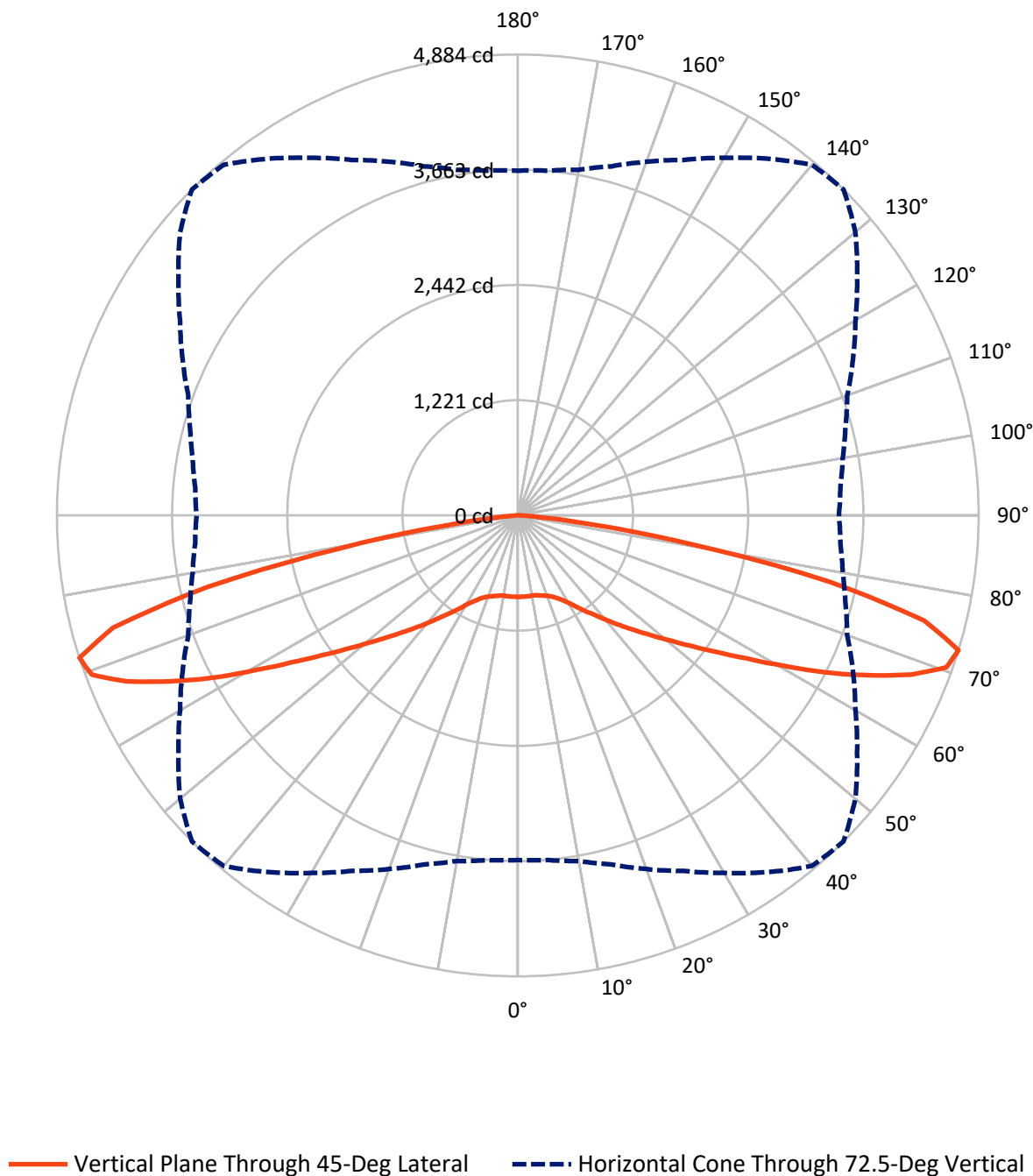


Based on 20 foot mounting height. Maximum calculated value = 2.2 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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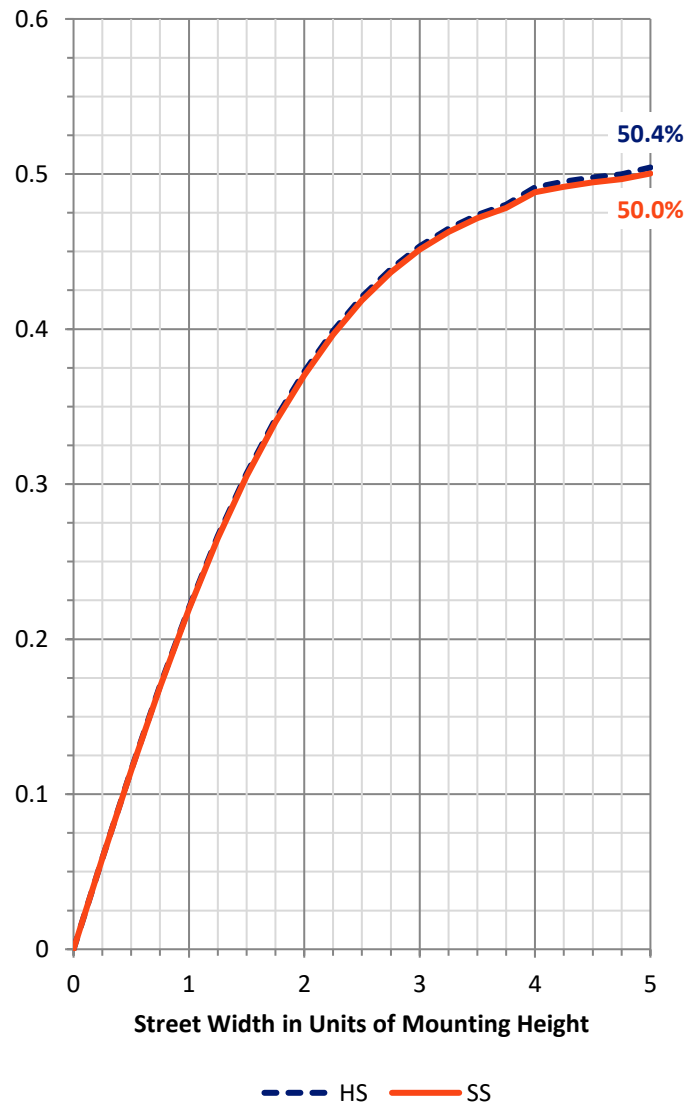
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6098.3	0.0	6098.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6098.3	0.0	6098.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	12196.6	0.0	12196.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	0.7
10°-20°	250.5	2.1
20°-30°	457.7	3.8
30°-40°	789.2	6.5
40°-50°	1349.2	11.1
50°-60°	2186.8	17.9
60°-70°	3627.8	29.7
70°-80°	3195.3	26.2
80°-90°	257.6	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°	12196.6	100.0
0°-180°	12196.6	100.0

Coefficient of Utilization



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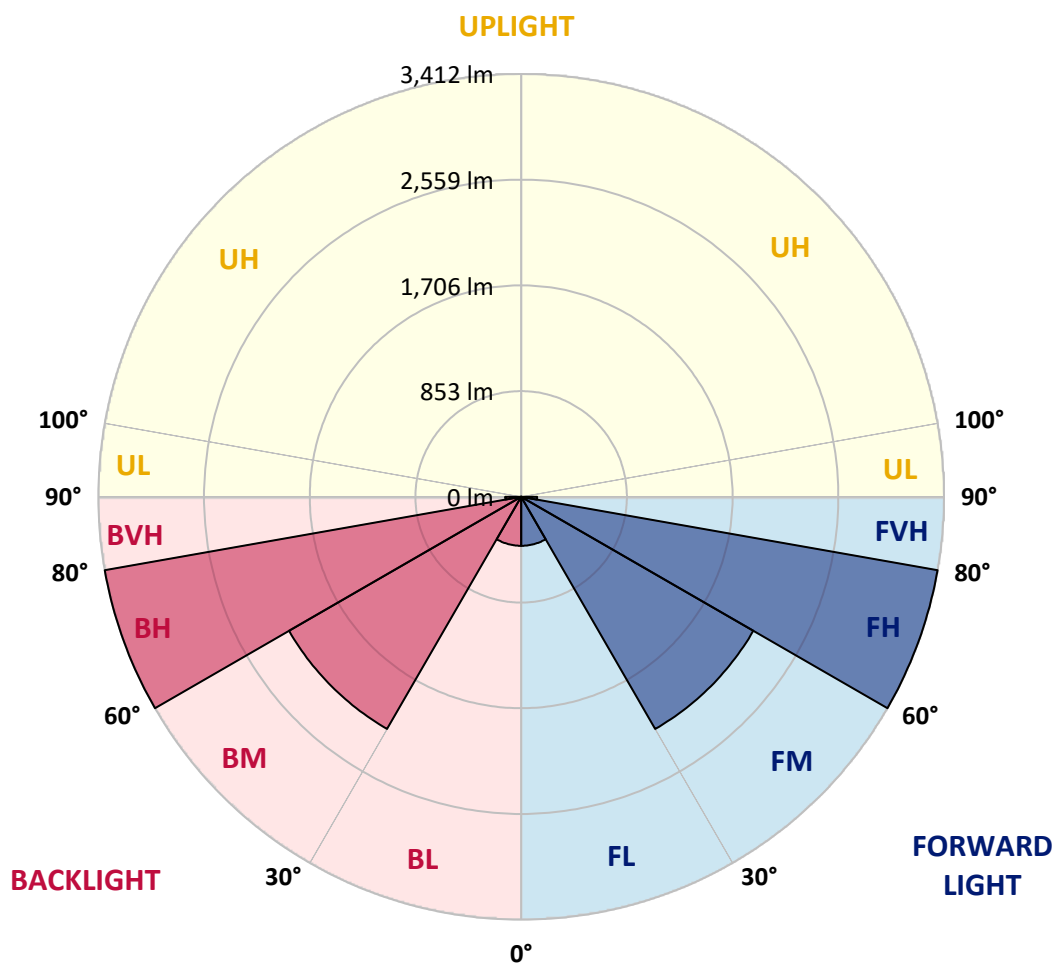
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	395.3	3.2			
FM	(30°-60°)	2162.6	17.7			
FH	(60°-80°)	3411.6	28.0			G2/5000
FVH	(80°-90°)	128.8	1.1			G2/225
BL	(0°-30°)	395.3	3.2	B1/500		
BM	(30°-60°)	2162.6	17.7	B2/2500		
BH	(60°-80°)	3411.6	28.0	B4/5000		G2/5000
BVH	(80°-90°)	128.8	1.1			G2/225
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°	863.7	863.7	863.7	863.7	863.7	863.7	863.7	863.7	863.7	863.7	863.7
2.5°	863.7	864.2	864.8	864.2	864.2	863.7	863.1	863.7	863.1	862.0	862.6
5°	866.5	867.6	867.6	866.5	867.1	866.5	865.4	866.0	864.8	863.1	863.1
7.5°	869.8	870.5	870.5	869.2	869.8	868.7	867.6	867.1	866.0	863.7	862.0
10°	874.9	875.5	874.9	873.7	873.7	872.1	869.2	868.2	866.0	862.6	861.0
12.5°	880.5	881.0	880.5	879.3	878.8	876.0	873.7	872.1	870.5	867.6	864.8
15°	888.3	889.5	888.3	886.1	884.5	882.2	881.0	881.6	882.2	880.0	877.2
17.5°	902.9	903.5	901.7	896.7	894.5	892.2	892.2	893.3	895.1	894.0	891.1
20°	929.7	928.0	924.2	918.0	915.1	911.2	910.6	911.2	911.2	910.6	908.5
22.5°	963.2	962.1	957.1	949.3	945.4	943.1	939.7	937.0	936.5	934.7	932.5
25°	1003.5	1003.0	996.9	990.1	987.3	984.5	981.7	977.9	974.5	970.6	968.4
27.5°	1055.0	1052.8	1043.9	1040.4	1036.6	1034.9	1031.0	1026.5	1023.6	1018.7	1015.9
30°	1111.5	1111.5	1104.3	1103.1	1103.1	1099.2	1094.8	1086.9	1081.8	1076.9	1075.1
32.5°	1168.0	1168.5	1161.3	1163.5	1165.2	1168.0	1169.2	1166.4	1162.9	1162.4	1159.0
35°	1249.7	1247.4	1240.2	1241.8	1241.3	1240.7	1240.7	1246.8	1248.1	1249.2	1242.4
37.5°	1351.0	1351.0	1343.7	1343.7	1340.3	1337.0	1332.5	1336.4	1342.6	1344.2	1339.7
40°	1466.7	1470.6	1461.7	1461.2	1462.2	1451.6	1446.6	1452.7	1456.7	1463.4	1458.4
42.5°	1603.3	1600.4	1591.5	1590.4	1584.3	1580.9	1576.4	1581.4	1587.5	1592.0	1593.8
45°	1734.2	1731.9	1721.8	1721.8	1715.7	1712.8	1715.2	1723.4	1726.3	1732.5	1738.7
47.5°	1863.3	1860.5	1853.8	1856.7	1857.2	1862.3	1869.5	1877.3	1885.2	1893.6	1896.3
50°	1995.4	1995.9	1988.6	1995.4	2003.9	2017.8	2037.3	2050.1	2066.4	2077.0	2080.4
52.5°	2115.6	2117.9	2125.7	2141.4	2158.2	2185.5	2219.2	2250.4	2277.3	2295.2	2294.1
55°	2259.9	2263.3	2282.3	2309.2	2336.6	2378.0	2427.7	2483.1	2527.9	2553.6	2537.4
57.5°	2444.5	2451.9	2473.1	2509.4	2550.3	2603.9	2672.3	2755.6	2825.0	2859.7	2833.3
60°	2697.9	2702.4	2728.2	2768.4	2817.7	2884.2	2975.4	3087.3	3185.2	3231.2	3200.9
62.5°	3032.0	3040.3	3061.0	3101.9	3152.2	3227.7	3339.1	3479.0	3600.8	3664.7	3596.4
65°	3430.7	3457.6	3475.0	3516.4	3563.4	3643.4	3759.7	3909.7	4040.5	4082.5	4003.6
67.5°	3825.7	3849.2	3879.5	3927.0	3974.6	4064.6	4172.5	4318.0	4461.7	4499.9	4377.3
70°	3998.6	4012.0	4059.0	4123.9	4215.1	4321.3	4446.1	4609.4	4787.3	4818.7	4663.1
72.5°	3652.3	3665.7	3718.3	3828.6	3987.4	4156.3	4373.9	4613.9	4848.8	4884.1	4669.8
75°	2762.3	2740.4	2818.3	2964.2	3178.5	3414.1	3718.3	4062.4	4401.9	4446.1	4190.4
77.5°	1427.6	1424.7	1483.5	1664.8	1920.4	2188.4	2523.5	2912.2	3244.5	3378.8	3170.7
80°	402.2	406.7	434.7	524.7	674.0	867.6	1129.4	1493.6	1765.4	1904.2	1787.8
82.5°	157.8	170.0	180.8	197.4	217.1	245.7	327.8	487.9	654.5	782.1	640.5
85°	56.5	60.4	85.5	101.3	102.9	108.5	123.6	144.3	173.9	207.5	170.7
87.5°	21.3	23.5	27.5	45.4	44.8	40.9	49.8	52.0	39.2	35.8	44.1
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°	863.7	863.7	863.7	863.7	863.7	863.7	863.7	863.7
2.5°	861.5	862.0	862.0	862.6	863.1	863.1	864.2	864.2
5°	862.0	862.0	861.0	861.5	861.0	861.0	861.5	861.5
7.5°	861.0	860.3	859.3	858.7	857.5	857.5	857.5	857.5
10°	859.3	858.7	857.5	857.0	856.5	856.5	856.5	856.5
12.5°	863.7	862.0	861.0	860.3	860.3	860.3	860.3	860.3
15°	875.5	871.6	868.7	868.7	869.2	870.5	870.5	871.6
17.5°	890.0	885.5	882.7	880.5	881.6	883.3	884.5	885.5
20°	907.3	905.1	901.2	898.9	898.9	901.2	902.3	902.9
22.5°	931.4	929.7	928.0	925.2	925.2	926.4	928.6	928.6
25°	967.2	966.1	965.0	962.7	962.1	962.1	963.2	964.4
27.5°	1012.0	1012.5	1011.4	1010.8	1009.1	1008.6	1010.3	1009.7
30°	1071.9	1074.6	1077.4	1075.1	1072.4	1070.7	1069.0	1066.8
32.5°	1152.9	1149.5	1147.3	1143.4	1138.4	1133.9	1130.5	1126.6
35°	1229.6	1223.9	1221.7	1225.2	1224.5	1221.7	1217.8	1214.4
37.5°	1323.5	1322.4	1323.5	1329.6	1328.6	1331.4	1323.5	1323.0
40°	1442.1	1443.2	1451.1	1458.4	1462.2	1466.1	1461.7	1457.2
42.5°	1579.8	1579.3	1582.0	1592.0	1598.8	1603.3	1593.8	1592.6
45°	1725.2	1721.3	1723.4	1731.9	1738.7	1743.7	1733.0	1733.0
47.5°	1885.2	1878.5	1871.2	1880.7	1884.6	1888.0	1879.6	1876.7
50°	2063.6	2049.6	2034.0	2037.9	2037.9	2036.8	2026.1	2025.5
52.5°	2268.3	2242.6	2214.1	2203.4	2197.3	2190.6	2172.2	2163.3
55°	2503.9	2465.2	2420.5	2393.1	2378.6	2360.1	2329.3	2320.8
57.5°	2779.1	2718.7	2641.5	2607.9	2575.5	2545.3	2511.1	2501.6
60°	3105.2	3016.3	2914.0	2851.7	2816.6	2787.5	2752.2	2750.6
62.5°	3468.9	3328.4	3212.7	3156.7	3131.0	3105.2	3071.6	3076.0
65°	3838.6	3692.0	3583.4	3538.2	3514.1	3492.9	3459.3	3464.4
67.5°	4203.3	4068.5	3949.4	3903.0	3876.1	3849.2	3819.0	3824.1
70°	4465.1	4297.8	4163.6	4060.6	3996.3	3923.6	3876.6	3864.8
72.5°	4390.1	4132.3	3919.1	3715.0	3595.2	3497.9	3432.0	3403.4
75°	3799.4	3447.0	3172.9	2922.2	2781.3	2666.7	2583.3	2531.3
77.5°	2821.6	2425.5	2101.6	1813.0	1584.8	1431.6	1323.5	1253.6
80°	1544.5	1174.7	858.7	603.5	443.6	368.6	325.6	304.9
82.5°	481.1	310.6	228.8	197.4	183.4	175.7	162.8	142.0
85°	153.3	134.3	124.8	119.2	113.5	99.0	68.3	62.1
87.5°	59.3	60.9	60.4	57.1	58.1	41.9	33.6	29.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)