

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: P192612

Luminaire Tested: **GLEON-AF-04-LED-E1-5WQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192612
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-04-LED-E1-5WQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 16116.8 lumens
Efficiency: N/A
Efficacy: 124.9 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): 129
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



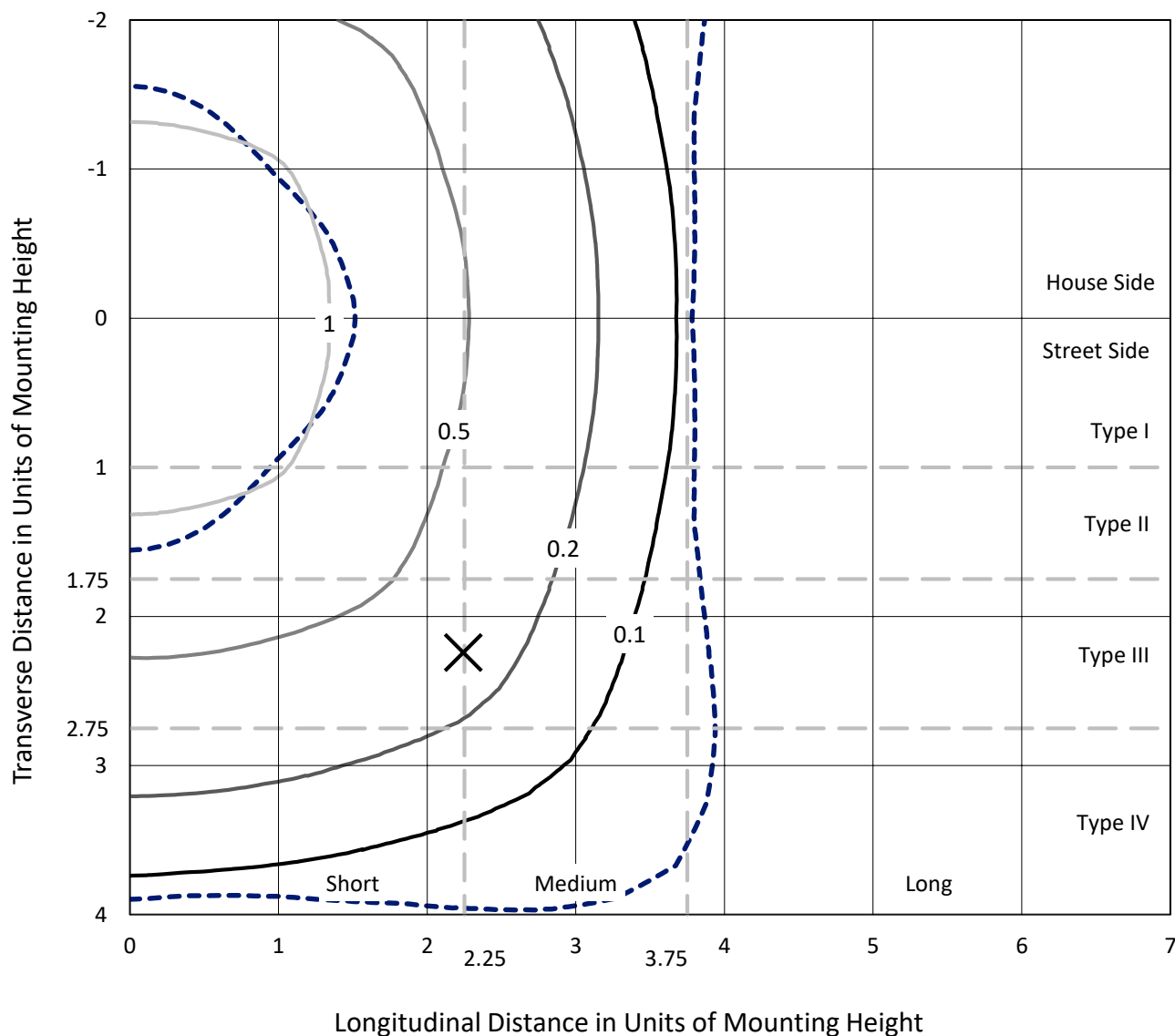
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

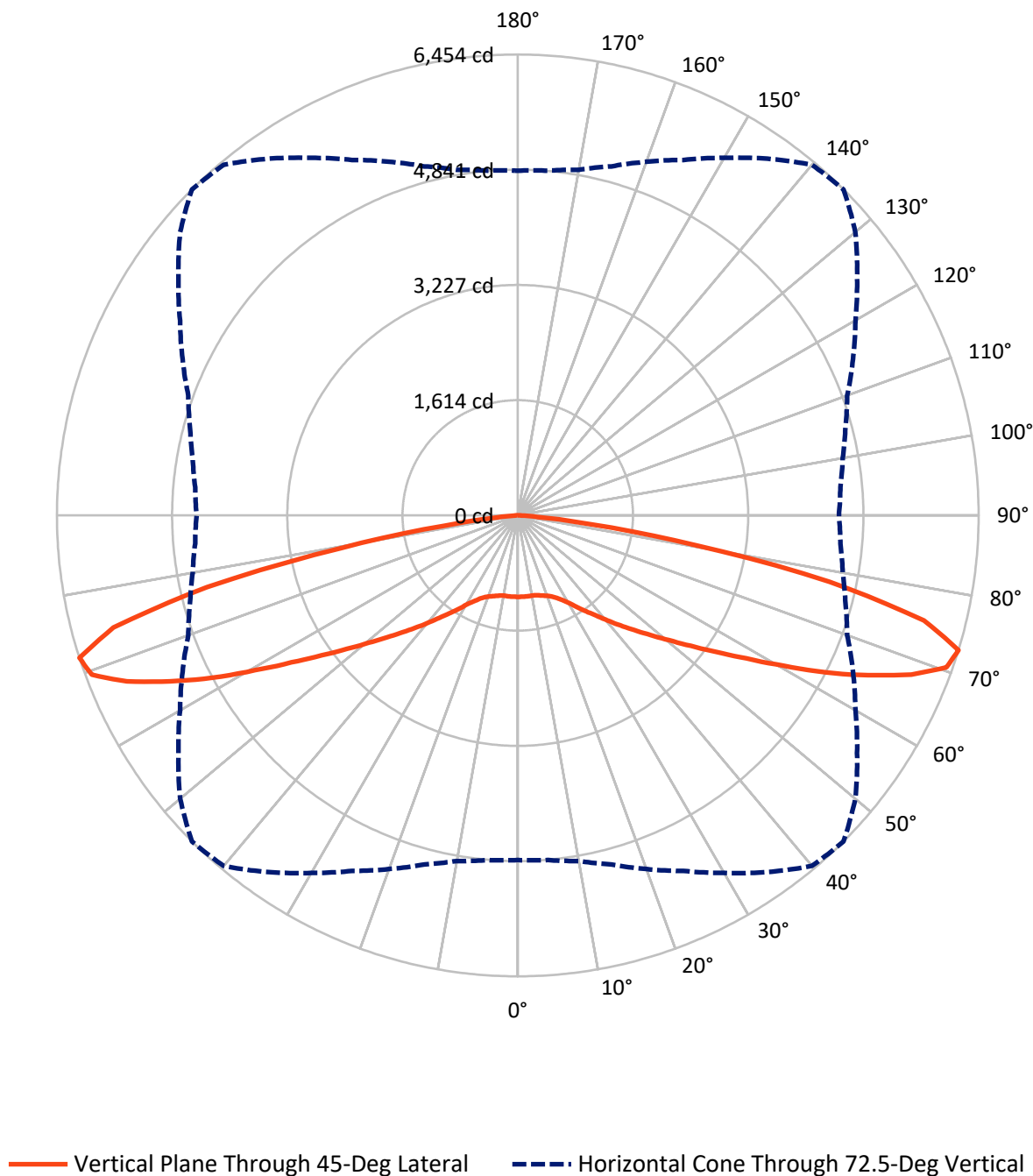


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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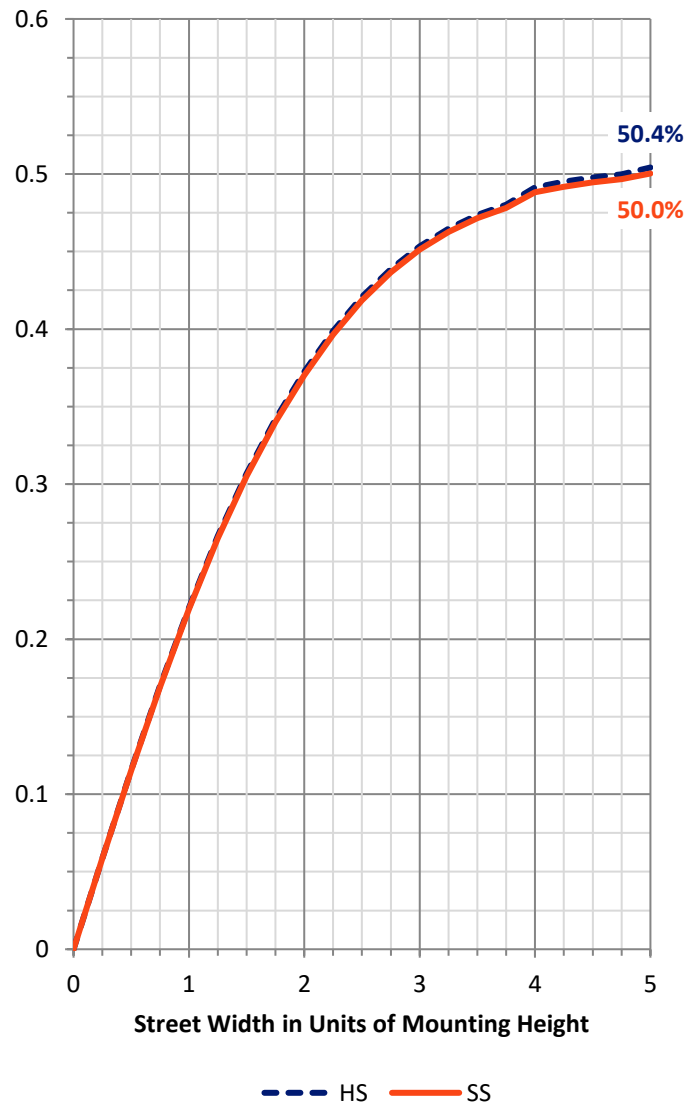
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8058.4	0.0	8058.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8058.4	0.0	8058.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	16116.8	0.0	16116.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	0.7
10°-20°	331.0	2.1
20°-30°	604.9	3.8
30°-40°	1042.9	6.5
40°-50°	1782.8	11.1
50°-60°	2889.7	17.9
60°-70°	4793.9	29.7
70°-80°	4222.3	26.2
80°-90°	340.4	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°	16116.8	100.0
0°-180°	16116.8	100.0

Coefficient of Utilization



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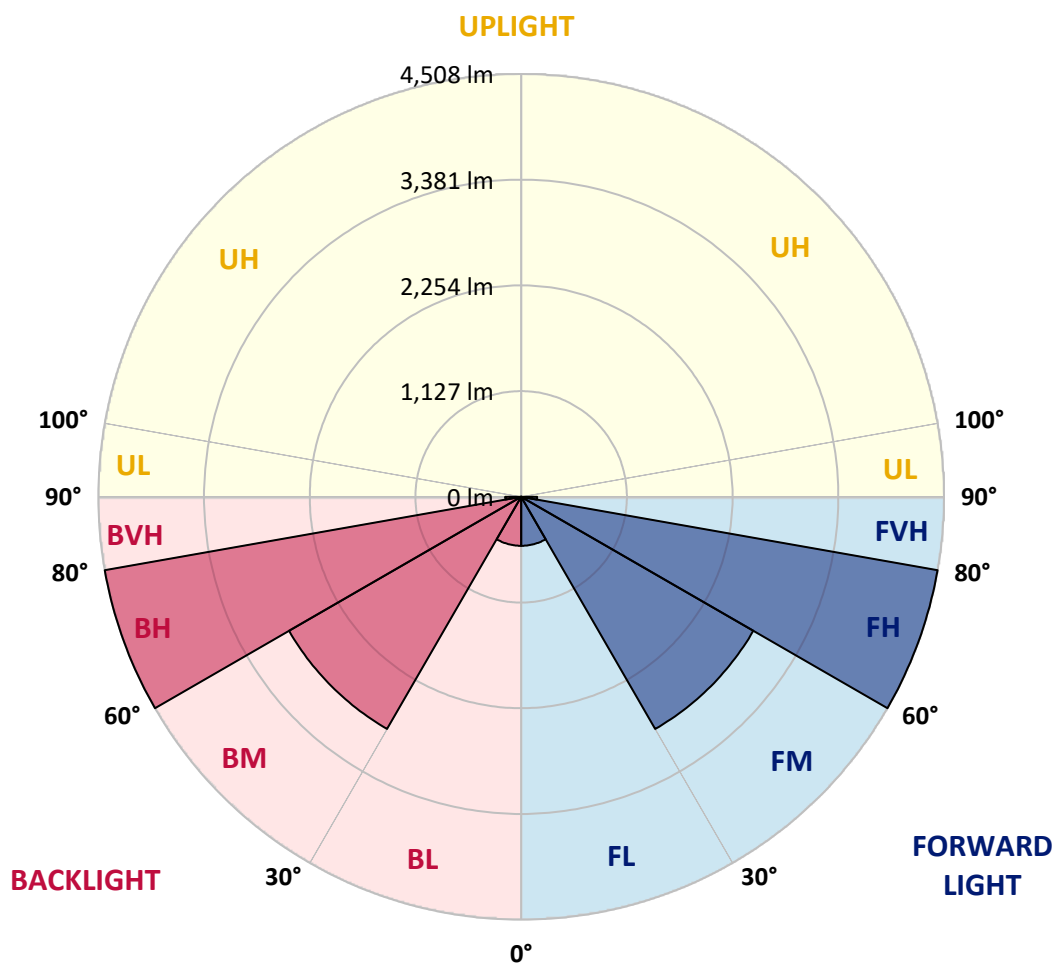
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	522.4	3.2			
FM	(30°-60°)	2857.7	17.7			
FH	(60°-80°)	4508.1	28.0			G2/5000
FVH	(80°-90°)	170.2	1.1			G2/225
BL	(0°-30°)	522.4	3.2	B2/1000		
BM	(30°-60°)	2857.7	17.7	B3/5000		
BH	(60°-80°)	4508.1	28.0	B4/5000		G2/5000
BVH	(80°-90°)	170.2	1.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1141.3	1141.3	1141.3	1141.3	1141.3	1141.3	1141.3	1141.3	1141.3	1141.3	1141.3
2.5°	1141.3	1142.1	1142.9	1142.1	1142.1	1141.3	1140.5	1141.3	1140.5	1139.1	1139.8
5°	1145.0	1146.4	1146.4	1145.0	1145.8	1145.0	1143.5	1144.3	1142.9	1140.5	1140.5
7.5°	1149.4	1150.2	1150.2	1148.8	1149.4	1148.0	1146.4	1145.8	1144.3	1141.3	1139.1
10°	1156.1	1156.8	1156.1	1154.7	1154.7	1152.3	1148.8	1147.2	1144.3	1139.8	1137.6
12.5°	1163.5	1164.2	1163.5	1162.0	1161.3	1157.6	1154.7	1152.3	1150.2	1146.4	1142.9
15°	1173.9	1175.3	1173.9	1170.9	1168.6	1165.7	1164.2	1164.9	1165.7	1162.7	1159.0
17.5°	1193.1	1193.7	1191.6	1184.9	1181.9	1179.0	1179.0	1180.5	1182.7	1181.2	1177.6
20°	1228.5	1226.3	1221.2	1213.0	1209.3	1204.1	1203.4	1204.1	1204.1	1203.4	1200.4
22.5°	1272.9	1271.4	1264.7	1254.4	1249.3	1246.3	1241.8	1238.1	1237.5	1235.1	1232.2
25°	1326.1	1325.5	1317.2	1308.4	1304.7	1301.0	1297.4	1292.1	1287.7	1282.4	1279.5
27.5°	1394.1	1391.2	1379.4	1374.9	1369.8	1367.5	1362.4	1356.5	1352.7	1346.1	1342.4
30°	1468.8	1468.8	1459.1	1457.7	1457.7	1452.5	1446.6	1436.2	1429.6	1423.0	1420.7
32.5°	1543.4	1544.2	1534.5	1537.5	1539.8	1543.4	1544.9	1541.2	1536.8	1536.0	1531.6
35°	1651.4	1648.4	1638.8	1641.1	1640.3	1639.6	1639.6	1647.6	1649.2	1650.6	1641.7
37.5°	1785.2	1785.2	1775.6	1775.6	1771.1	1766.7	1760.8	1765.9	1774.1	1776.3	1770.3
40°	1938.2	1943.4	1931.4	1930.8	1932.2	1918.3	1911.6	1919.6	1924.8	1933.8	1927.2
42.5°	2118.5	2114.8	2103.0	2101.5	2093.4	2088.9	2083.0	2089.7	2097.9	2103.8	2106.0
45°	2291.5	2288.6	2275.3	2275.3	2267.1	2263.5	2266.4	2277.5	2281.2	2289.3	2297.4
47.5°	2462.2	2458.6	2449.7	2453.4	2454.2	2460.7	2470.4	2480.7	2491.1	2502.1	2505.9
50°	2636.8	2637.4	2627.9	2636.8	2647.8	2666.3	2692.1	2709.2	2730.6	2744.6	2749.1
52.5°	2795.6	2798.5	2808.9	2829.7	2851.7	2888.0	2932.4	2973.8	3009.3	3032.9	3031.4
55°	2986.4	2990.8	3015.9	3051.4	3087.6	3142.3	3208.1	3281.3	3340.4	3374.5	3353.0
57.5°	3230.2	3239.9	3268.0	3316.0	3370.0	3441.0	3531.2	3641.3	3733.0	3778.7	3744.0
60°	3565.1	3571.0	3605.1	3658.3	3723.3	3811.3	3931.8	4079.6	4209.0	4269.7	4229.7
62.5°	4006.4	4017.6	4044.9	4098.9	4165.4	4265.2	4412.3	4597.1	4758.2	4842.5	4752.3
65°	4533.5	4569.0	4591.9	4646.6	4708.7	4814.4	4968.1	5166.3	5339.3	5394.6	5290.5
67.5°	5055.4	5086.4	5126.3	5189.2	5252.0	5370.9	5513.7	5705.8	5895.8	5946.1	5784.1
70°	5283.8	5301.5	5363.6	5449.5	5569.8	5710.3	5875.2	6090.9	6326.1	6367.4	6162.0
72.5°	4826.2	4844.0	4913.5	5059.0	5269.0	5492.3	5779.9	6096.8	6407.4	6454.0	6170.9
75°	3650.2	3621.3	3724.1	3917.1	4200.2	4511.4	4913.5	5368.0	5816.8	5875.2	5537.4
77.5°	1886.5	1882.7	1960.3	2199.8	2537.6	2891.8	3334.5	3848.2	4287.4	4464.8	4189.8
80°	531.4	537.4	574.3	693.4	890.7	1146.4	1492.5	1973.7	2332.9	2516.2	2362.5
82.5°	208.4	224.7	238.7	260.9	286.8	324.5	433.2	644.6	864.9	1033.4	846.4
85°	74.7	79.9	113.1	133.9	136.0	143.4	163.4	190.7	229.9	274.2	225.4
87.5°	28.1	31.0	36.3	59.9	59.1	54.0	65.8	68.8	51.8	47.3	58.4
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°	1141.3	1141.3	1141.3	1141.3	1141.3	1141.3	1141.3	1141.3
2.5°	1138.4	1139.1	1139.1	1139.8	1140.5	1140.5	1142.1	1142.1
5°	1139.1	1139.1	1137.6	1138.4	1137.6	1137.6	1138.4	1138.4
7.5°	1137.6	1136.9	1135.4	1134.6	1133.2	1133.2	1133.2	1133.2
10°	1135.4	1134.6	1133.2	1132.5	1131.7	1131.7	1131.7	1131.7
12.5°	1141.3	1139.1	1137.6	1136.9	1136.9	1136.9	1136.9	1136.9
15°	1156.8	1151.7	1148.0	1148.0	1148.8	1150.2	1150.2	1151.7
17.5°	1176.0	1170.1	1166.5	1163.5	1164.9	1167.2	1168.6	1170.1
20°	1199.0	1196.1	1190.8	1187.8	1187.8	1190.8	1192.3	1193.1
22.5°	1230.8	1228.5	1226.3	1222.6	1222.6	1224.1	1227.1	1227.1
25°	1278.2	1276.5	1275.2	1272.3	1271.4	1271.4	1272.9	1274.4
27.5°	1337.3	1338.0	1336.5	1335.7	1333.5	1332.8	1335.0	1334.3
30°	1416.3	1420.1	1423.6	1420.7	1417.1	1414.8	1412.6	1409.7
32.5°	1523.5	1519.0	1516.1	1510.9	1504.3	1498.4	1493.9	1488.7
35°	1624.8	1617.4	1614.5	1618.9	1618.1	1614.5	1609.3	1604.8
37.5°	1748.9	1747.5	1748.9	1757.1	1755.6	1759.3	1748.9	1748.2
40°	1905.7	1907.1	1917.5	1927.2	1932.2	1937.3	1931.4	1925.5
42.5°	2087.5	2086.8	2090.4	2103.8	2112.6	2118.5	2106.0	2104.6
45°	2279.7	2274.6	2277.5	2288.6	2297.4	2304.1	2290.1	2290.1
47.5°	2491.1	2482.3	2472.6	2485.2	2490.3	2494.8	2483.7	2479.9
50°	2726.9	2708.4	2687.8	2692.9	2692.9	2691.4	2677.4	2676.7
52.5°	2997.4	2963.4	2925.8	2911.6	2903.6	2894.8	2870.3	2858.4
55°	3308.7	3257.7	3198.6	3162.3	3143.1	3118.7	3078.1	3066.9
57.5°	3672.3	3592.6	3490.5	3446.1	3403.3	3363.3	3318.3	3305.7
60°	4103.3	3985.8	3850.6	3768.5	3721.9	3683.4	3636.8	3634.6
62.5°	4583.8	4398.2	4245.3	4171.3	4137.3	4103.3	4059.0	4064.9
65°	5072.4	4878.8	4735.3	4675.4	4643.6	4615.5	4571.2	4577.9
67.5°	5554.3	5376.2	5218.8	5157.4	5121.8	5086.4	5046.4	5053.1
70°	5900.3	5679.3	5501.9	5365.8	5280.8	5184.8	5122.6	5107.1
72.5°	5801.2	5460.4	5178.8	4909.0	4750.8	4622.2	4535.1	4497.3
75°	5020.7	4554.9	4192.8	3861.6	3675.3	3523.7	3413.6	3344.9
77.5°	3728.5	3205.1	2777.2	2395.7	2094.2	1891.6	1748.9	1656.6
80°	2041.0	1552.3	1134.6	797.6	586.1	487.1	430.3	402.8
82.5°	635.7	410.3	302.3	260.9	242.4	232.0	215.1	187.7
85°	202.5	177.4	164.9	157.5	150.0	130.9	90.1	82.1
87.5°	78.3	80.6	79.9	75.4	76.9	55.4	44.4	39.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)