

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: P455024

Luminaire Tested: **GALN-SA6A-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21962 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 182
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: 24 FT

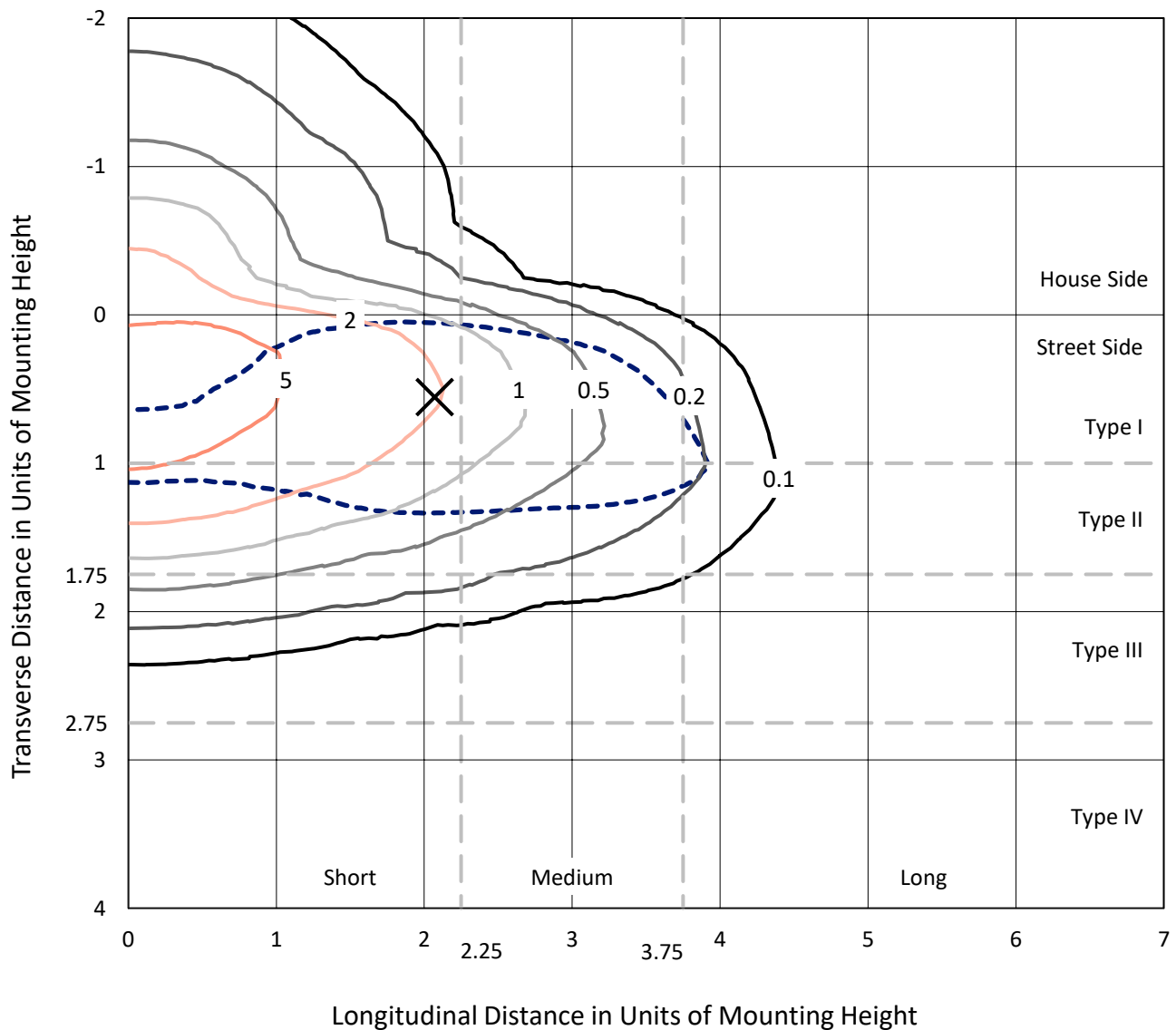


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

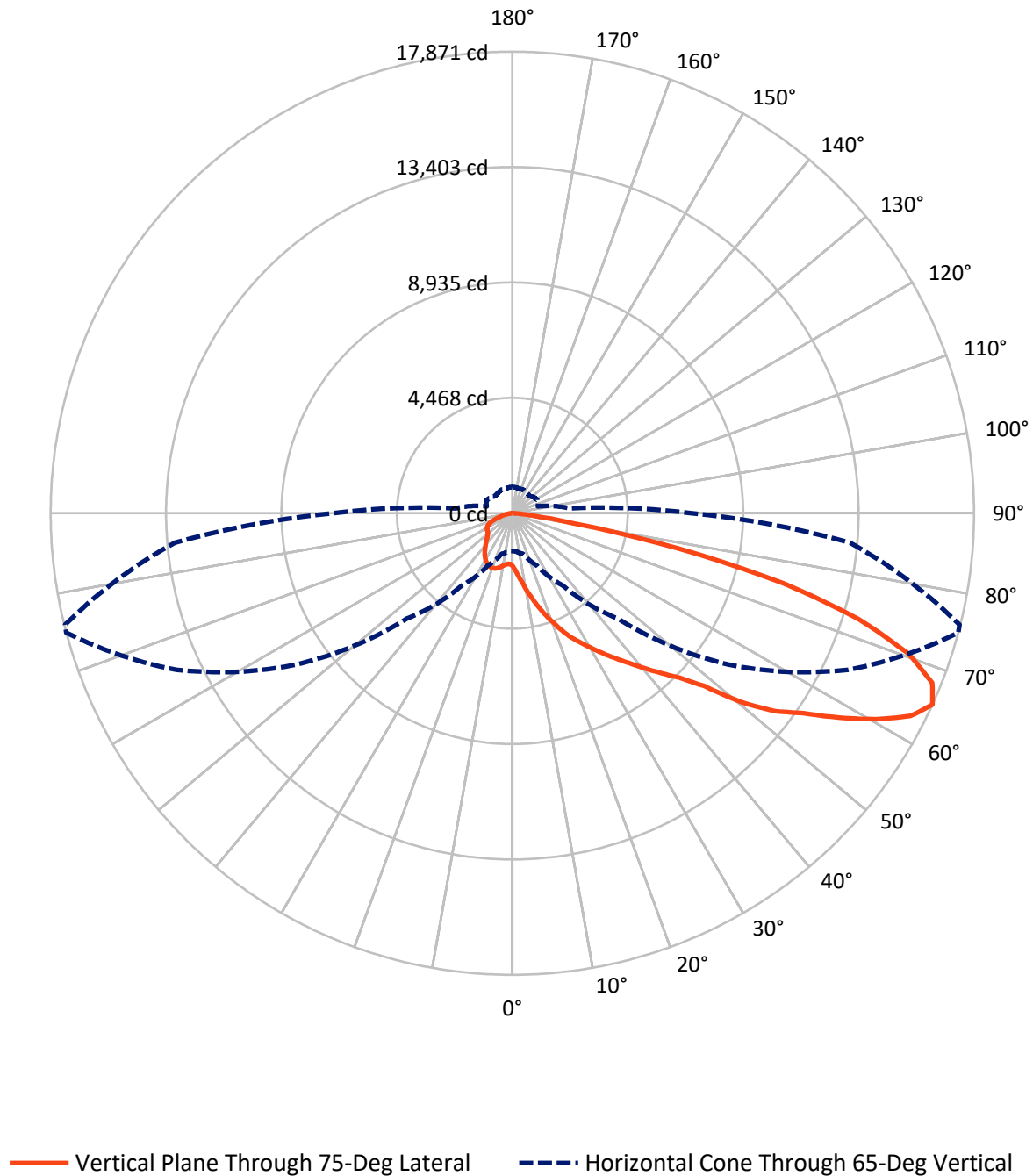


Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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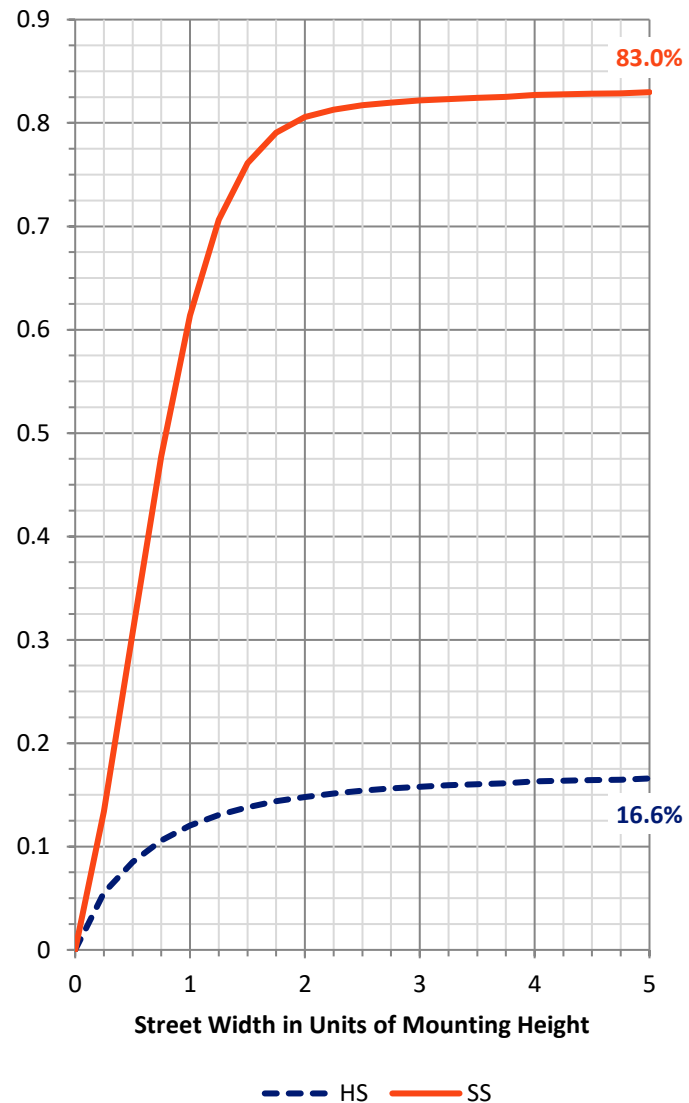
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3692.1	0.0	3692.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	18269.9	0.0	18269.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	21962.0	0.0	21962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.9	1.1
10°-20°	971.1	4.4
20°-30°	1875.8	8.5
30°-40°	3046.8	13.9
40°-50°	4191.2	19.1
50°-60°	4948.4	22.5
60°-70°	4335.6	19.7
70°-80°	2069.8	9.4
80°-90°	275.4	1.3
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°	21962.0	100.0
0°-180°	21962.0	100.0

Coefficient of Utilization



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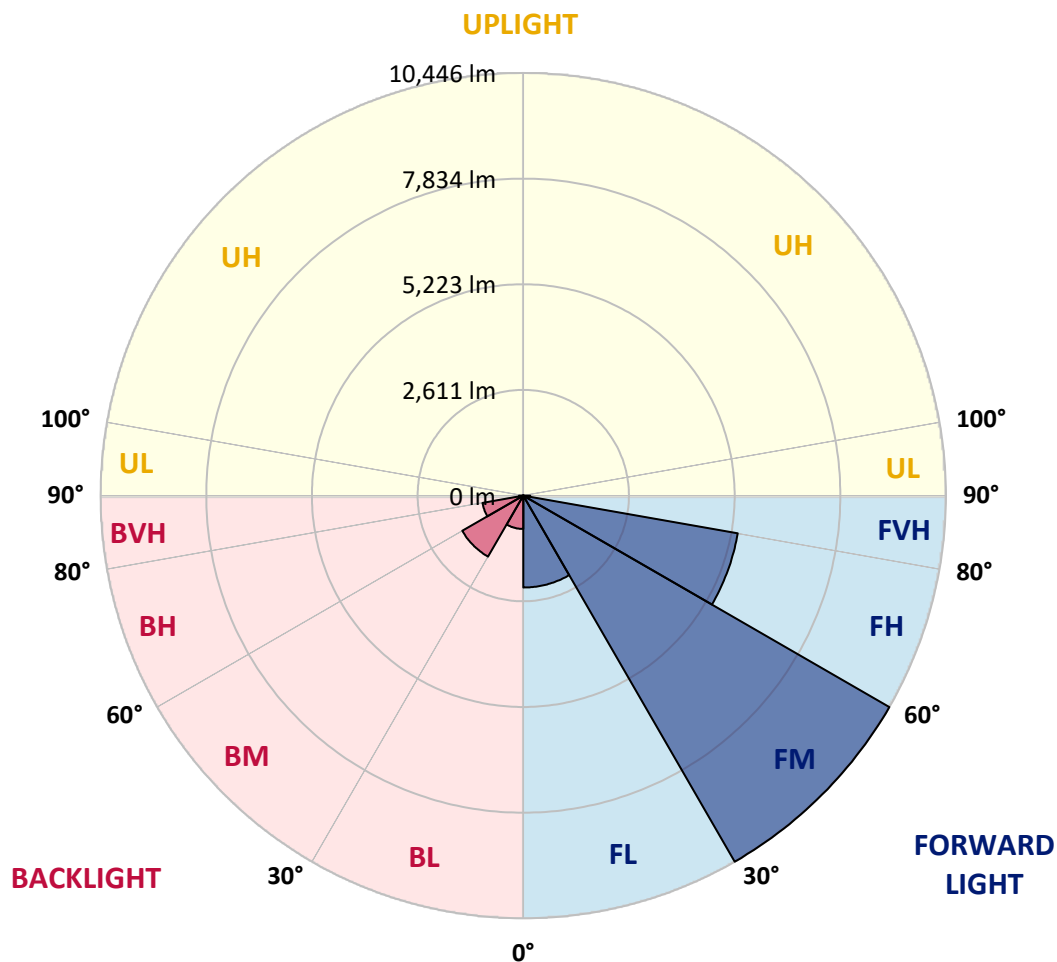
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2270.5	10.3			
FM	(30°-60°)	10445.6	47.6			
FH	(60°-80°)	5381.7	24.5			G3/7500
FVH	(80°-90°)	172.1	0.8			G2/225
BL	(0°-30°)	824.3	3.8	B2/1000		
BM	(30°-60°)	1740.8	7.9	B2/2500		
BH	(60°-80°)	1023.7	4.7	B3/2500		G3/2500
BVH	(80°-90°)	103.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5
2.5°	2711.2	2693.3	2674.3	2621.9	2565.9	2502.7	2412.2	2325.2	2209.7	2206.1	2120.4
5°	3462.9	3450.9	3366.4	3317.5	3187.7	3015.0	2868.4	2640.9	2430.1	2405.1	2238.3
7.5°	4153.8	4107.3	4075.1	3987.0	3858.3	3636.8	3353.3	3045.9	2693.3	2660.0	2383.6
10°	4674.3	4669.6	4652.9	4576.6	4480.2	4259.8	3945.3	3504.5	3026.9	2961.4	2559.9
12.5°	5063.8	5067.4	5065.0	5063.8	4994.8	4807.7	4467.0	4002.5	3364.0	3317.5	2763.6
15°	5320.0	5355.7	5370.0	5429.5	5435.5	5310.4	5017.4	4483.7	3744.0	3674.9	2982.8
17.5°	5489.1	5507.0	5573.7	5674.9	5757.1	5734.5	5473.6	4929.2	4132.3	4016.8	3210.3
20°	5651.1	5682.1	5733.3	5871.5	6016.8	6083.5	5900.1	5385.5	4517.1	4443.2	3461.7
22.5°	5988.2	6032.3	6050.2	6120.5	6244.3	6362.3	6278.9	5822.6	4938.8	4838.7	3728.5
25°	6558.8	6605.3	6555.2	6538.6	6579.1	6637.4	6619.6	6234.8	5336.6	5193.7	3981.0
27.5°	7302.1	7308.1	7210.4	7117.5	7017.4	6987.7	6932.9	6600.5	5682.1	5563.0	4234.8
30°	8100.2	8071.7	7909.7	7741.7	7572.5	7405.8	7248.5	6953.1	6066.8	5929.9	4483.7
32.5°	8841.2	8825.7	8645.8	8384.9	8099.1	7941.8	7623.8	7309.3	6479.0	6346.8	4739.8
35°	9396.3	9418.9	9221.2	8936.5	8624.4	8485.0	8083.6	7683.3	6905.5	6761.3	5018.6
37.5°	9790.6	9778.7	9603.6	9357.0	9083.0	8961.5	8620.8	8091.9	7364.1	7225.9	5323.5
40°	9931.1	9924.0	9794.1	9614.3	9440.4	9397.5	9183.1	8532.7	7889.4	7727.4	5690.4
42.5°	9841.8	9857.3	9771.5	9722.7	9690.5	9721.5	9741.7	9110.4	8462.4	8313.5	6088.3
45°	9567.8	9559.5	9547.6	9627.4	9808.4	10012.1	10294.5	9656.0	9085.4	8966.3	6622.0
47.5°	9078.2	9137.8	9167.6	9387.9	9783.4	10265.9	10930.6	10387.4	9989.5	9885.9	7435.5
50°	8393.3	8440.9	8617.2	9009.1	9598.8	10361.2	11552.4	11583.4	11497.6	11303.4	8319.4
52.5°	7323.6	7397.4	7760.8	8479.1	9220.0	10321.9	11928.8	12609.0	12722.2	12576.8	9190.2
55°	6126.4	6230.0	6613.6	7555.9	8698.2	10107.4	12188.5	13203.4	13654.9	13520.3	10028.8
57.5°	4954.3	5063.8	5458.1	6370.6	7788.1	9633.3	12358.8	13865.7	14924.7	14749.6	11072.3
60°	3713.0	3827.4	4165.7	5105.5	6492.1	8706.6	12243.3	14439.9	16193.3	16118.3	12117.0
62.5°	2395.5	2521.8	2816.0	3593.9	4990.0	7440.3	11625.0	14756.7	17291.6	17201.1	12879.4
65°	1459.2	1473.5	1635.5	2231.1	3415.2	5760.7	10211.1	14336.2	17870.6	17843.2	13111.7
67.5°	943.4	966.1	1039.9	1336.5	2047.7	4001.3	8164.6	12948.5	17532.3	17522.7	12631.6
70°	796.9	804.1	837.4	901.7	1190.0	2426.5	5733.3	10736.4	16246.9	16246.9	11477.3
72.5°	712.3	721.9	733.8	754.0	849.3	1374.7	3421.2	8357.5	14027.7	14120.6	9769.1
75°	646.8	644.4	651.6	655.2	724.3	898.2	1769.0	6181.2	10851.9	10666.1	7074.6
77.5°	553.9	557.5	553.9	569.4	639.7	683.8	898.2	4147.8	6576.7	6336.1	3551.0
80°	455.0	461.0	467.0	476.5	546.8	519.4	539.6	1890.5	2432.5	2381.2	1097.1
82.5°	341.9	350.2	359.7	382.4	430.0	343.1	340.7	807.6	877.9	804.1	403.8
85°	138.2	163.2	246.6	269.2	270.4	188.2	209.7	337.1	358.6	350.2	158.4
87.5°	32.2	38.1	79.8	120.3	110.8	70.3	77.4	109.6	125.1	115.5	53.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5
2.5°	2081.0	2039.4	1967.9	1913.1	1873.8	1839.2	1817.8	1804.7	1799.9	1798.7	1799.9
5°	2151.3	2077.5	1964.3	1892.8	1853.5	1830.9	1817.8	1816.6	1817.8	1819.0	1815.4
7.5°	2247.8	2141.8	1994.1	1927.4	1897.6	1880.9	1875.0	1872.6	1873.8	1872.6	1872.6
10°	2376.5	2231.1	2052.5	1983.4	1958.4	1939.3	1929.8	1923.8	1919.0	1914.3	1911.9
12.5°	2518.2	2330.0	2115.6	2048.9	2013.1	1983.4	1961.9	1946.4	1935.7	1925.0	1922.6
15°	2676.7	2434.8	2185.9	2093.0	2041.7	1997.7	1960.7	1935.7	1916.7	1901.2	1900.0
17.5°	2827.9	2533.7	2233.5	2113.2	2038.2	1976.2	1927.4	1892.8	1869.0	1848.8	1846.4
20°	2989.9	2627.8	2255.0	2100.1	2002.4	1927.4	1863.1	1821.4	1794.0	1771.3	1767.8
22.5°	3153.1	2707.6	2252.6	2058.4	1940.5	1852.3	1784.4	1740.4	1708.2	1685.6	1677.2
25°	3309.2	2772.0	2222.8	1991.7	1854.7	1763.0	1693.9	1653.4	1624.8	1597.4	1597.4
27.5°	3449.8	2810.1	2166.8	1910.7	1766.6	1670.1	1615.3	1578.4	1552.2	1534.3	1523.6
30°	3587.9	2827.9	2090.6	1808.3	1673.7	1591.5	1547.4	1525.9	1502.1	1481.9	1479.5
32.5°	3711.8	2824.4	1995.3	1708.2	1585.5	1527.1	1509.3	1492.6	1467.6	1439.0	1431.8
35°	3832.1	2800.5	1882.1	1598.6	1511.6	1489.0	1493.8	1470.0	1424.7	1389.0	1383.0
37.5°	3963.2	2757.7	1758.2	1509.3	1449.7	1471.1	1483.1	1430.6	1356.8	1300.8	1287.7
40°	4114.4	2708.8	1629.6	1419.9	1400.9	1454.5	1454.5	1358.0	1256.7	1222.2	1212.7
42.5°	4291.9	2668.3	1522.4	1344.9	1360.4	1414.0	1408.0	1261.5	1219.8	1201.9	1197.2
45°	4573.1	2654.0	1411.6	1279.4	1327.0	1366.3	1317.5	1228.1	1204.3	1190.0	1185.3
47.5°	5017.4	2670.7	1313.9	1230.5	1288.9	1318.7	1216.2	1205.5	1188.8	1168.6	1166.2
50°	5429.5	2655.2	1244.8	1203.1	1255.5	1261.5	1174.5	1178.1	1168.6	1145.9	1141.2
52.5°	5766.7	2606.4	1200.7	1188.8	1226.9	1161.4	1135.2	1148.3	1144.8	1116.2	1111.4
55°	6137.1	2576.6	1179.3	1188.8	1207.9	1074.5	1098.3	1117.4	1112.6	1092.3	1091.2
57.5°	6586.2	2582.5	1163.8	1192.4	1188.8	1030.4	1061.4	1084.0	1082.8	1076.9	1076.9
60°	7046.0	2584.9	1140.0	1191.2	1166.2	995.9	1023.3	1055.4	1057.8	1061.4	1061.4
62.5°	7198.5	2481.3	1093.5	1169.8	1116.2	962.5	987.5	1031.6	1029.2	1038.7	1039.9
65°	6913.8	2194.2	1024.4	1120.9	1051.8	938.7	960.1	1000.6	987.5	1012.5	1017.3
67.5°	6293.2	1815.4	917.2	1032.8	980.4	913.7	942.2	957.7	933.9	982.8	983.9
70°	5439.1	1417.5	781.4	907.7	899.4	887.5	928.0	904.1	870.8	930.3	918.4
72.5°	4548.0	1082.8	624.2	742.1	791.0	848.1	902.9	835.0	788.6	806.5	785.0
75°	3416.4	800.5	501.5	581.3	658.7	792.2	880.3	751.7	680.2	663.5	658.7
77.5°	1741.6	522.9	375.2	434.8	494.4	715.9	849.3	654.0	563.4	537.2	525.3
80°	621.8	325.2	264.4	300.2	333.5	615.9	742.1	540.8	437.2	432.4	437.2
82.5°	288.3	209.7	177.5	196.6	197.7	411.0	565.8	403.8	332.3	505.1	426.5
85°	123.9	104.8	100.1	97.7	90.5	183.4	318.1	216.8	338.3	151.3	139.4
87.5°	36.9	41.7	36.9	27.4	20.3	20.3	32.2	11.9	8.3	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)