

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: P452006

Luminaire Tested: **GALN-SA2D-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12433 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 125
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



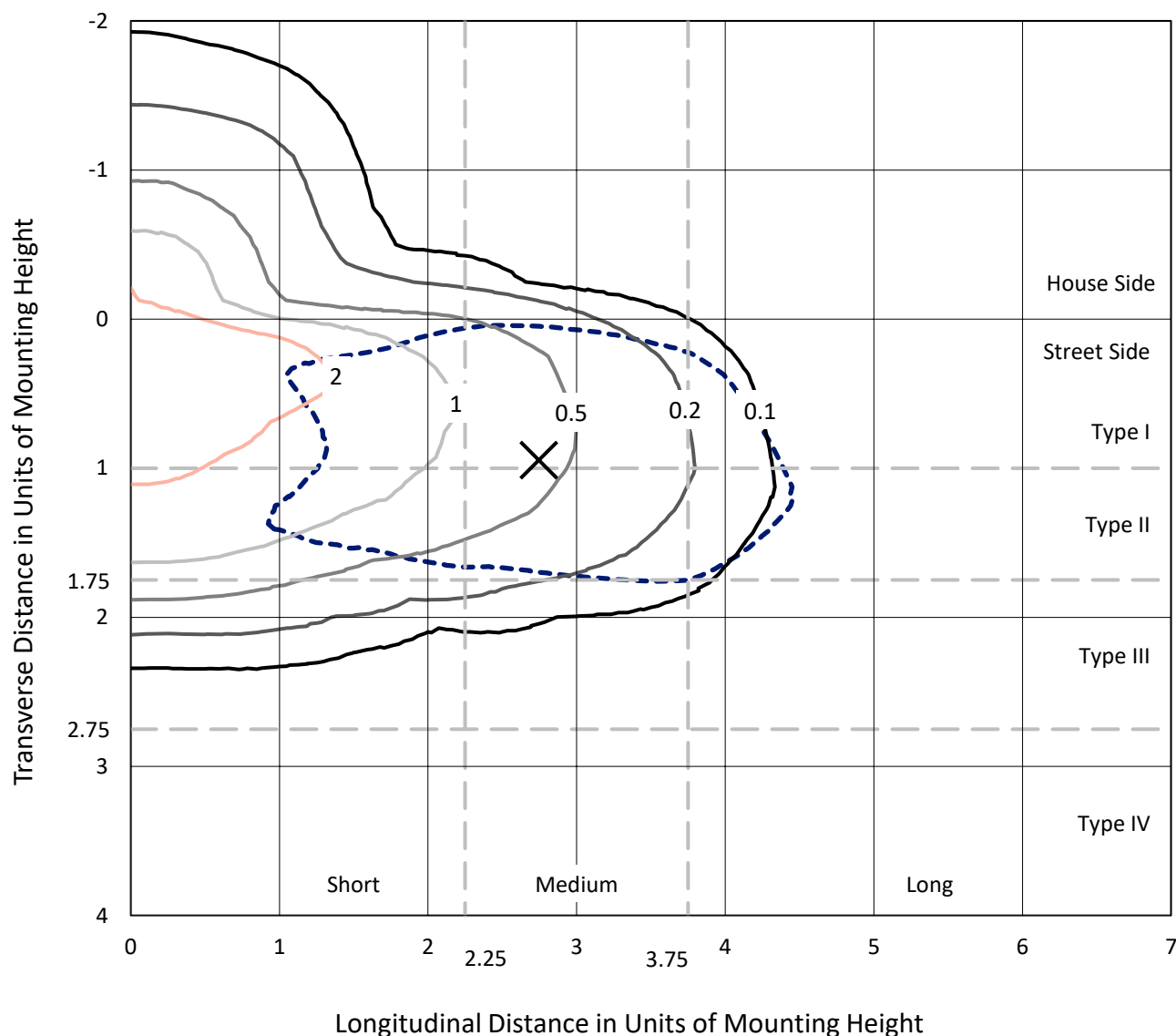
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

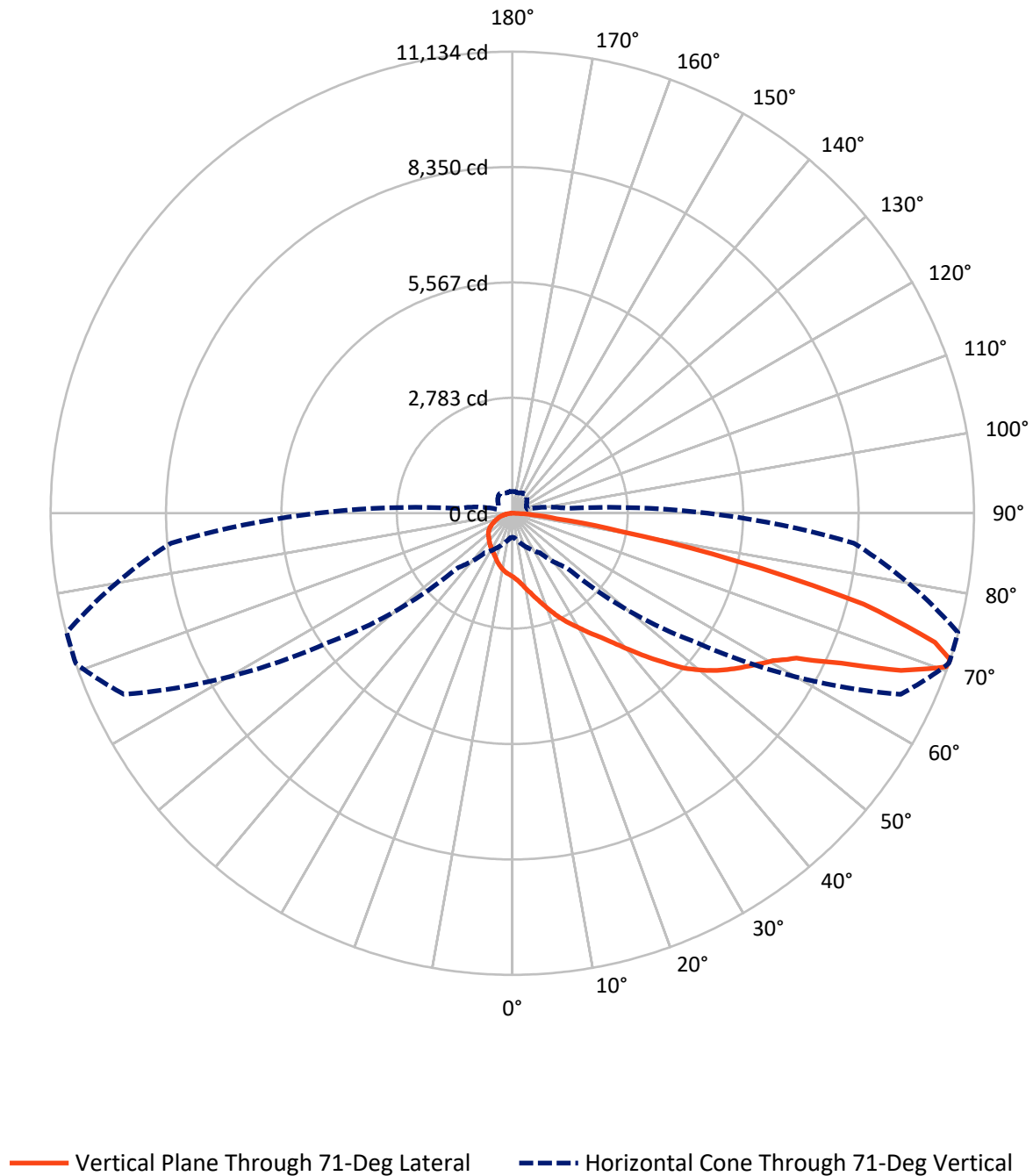


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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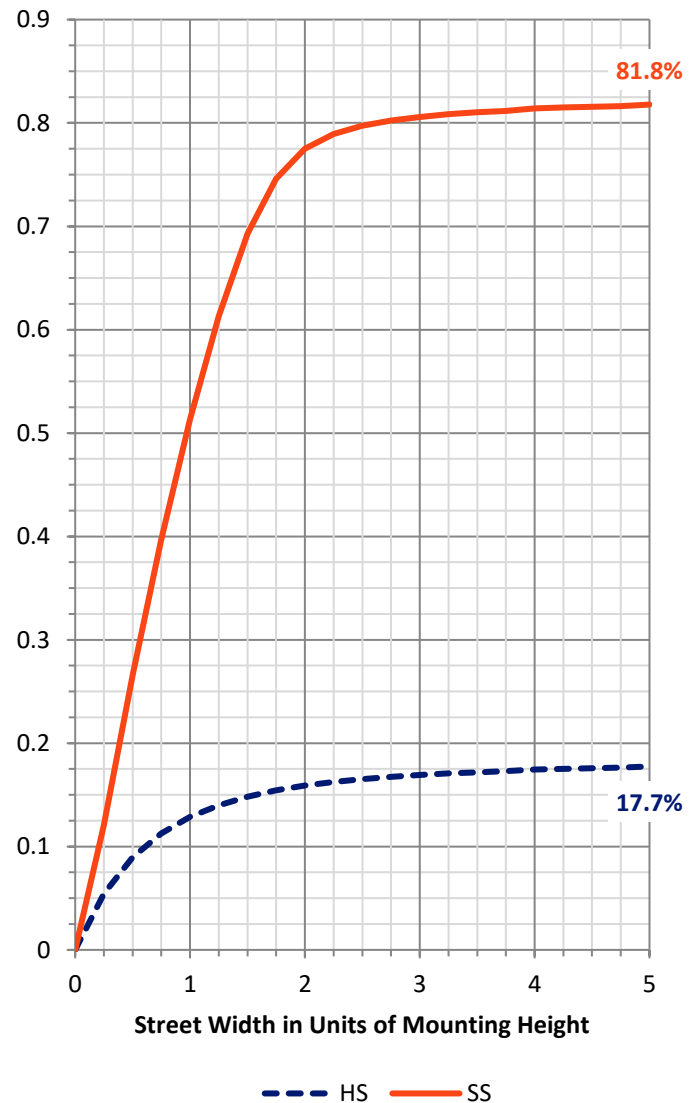
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2236.0	0.0	2236.0
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	10197.0	0.0	10197.0
	% Fixture	82.0	0.0	82.0
Total	Lumens	12433.0	0.0	12433.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	1.2
10°-20°	497.8	4.0
20°-30°	869.9	7.0
30°-40°	1293.9	10.4
40°-50°	1906.3	15.3
50°-60°	2668.9	21.5
60°-70°	2985.1	24.0
70°-80°	1823.4	14.7
80°-90°	234.6	1.9
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°	12433.0	100.0
0°-180°	12433.0	100.0

Coefficient of Utilization



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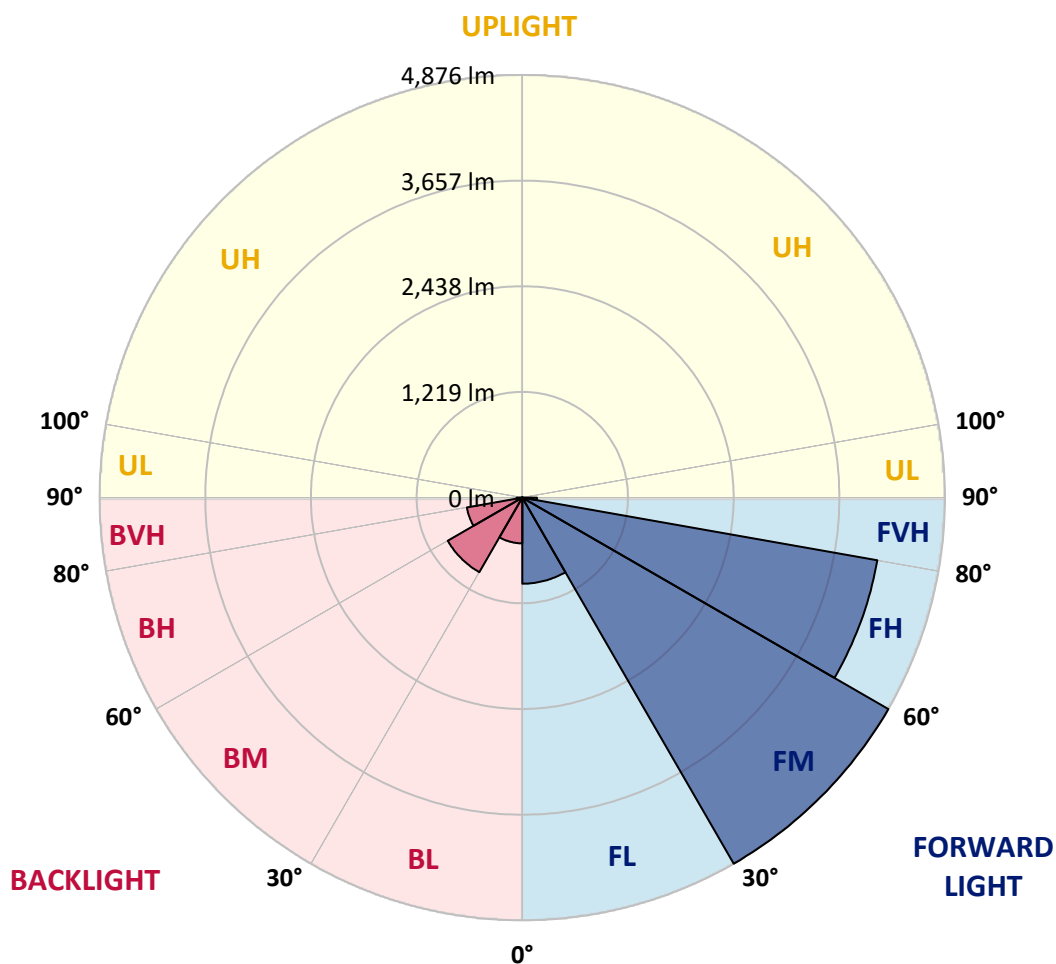
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	993.4	8.0			
FM	(30°-60°)	4876.0	39.2			
FH	(60°-80°)	4158.8	33.4			G2/5000
FVH	(80°-90°)	168.8	1.4			G2/225
BL	(0°-30°)	527.5	4.2	B2/1000		
BM	(30°-60°)	993.1	8.0	B1/1000		
BH	(60°-80°)	649.7	5.2	B2/1000		G2/1000
BVH	(80°-90°)	65.8	0.5			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9
2.5°	1694.0	1685.8	1686.5	1674.9	1659.8	1643.4	1620.2	1599.7	1583.3	1573.7	1545.7
5°	1877.1	1868.9	1858.7	1833.4	1822.5	1782.2	1730.9	1684.4	1648.9	1629.1	1573.1
7.5°	2025.4	2023.4	2020.6	2006.3	1978.3	1922.2	1878.5	1797.9	1745.3	1707.7	1612.0
10°	2117.0	2120.4	2122.5	2125.2	2113.6	2084.2	2024.1	1922.2	1855.3	1807.4	1662.6
12.5°	2163.5	2166.9	2178.5	2203.8	2219.5	2216.1	2166.9	2067.1	1974.9	1912.0	1716.6
15°	2192.2	2197.6	2218.1	2251.6	2304.2	2337.7	2313.8	2221.5	2120.4	2045.9	1780.8
17.5°	2223.6	2229.7	2252.3	2300.1	2369.2	2441.6	2467.6	2388.3	2278.3	2189.4	1852.5
20°	2241.4	2249.6	2281.7	2344.6	2425.2	2530.4	2616.5	2574.8	2454.6	2356.2	1935.2
22.5°	2270.1	2276.9	2304.2	2371.2	2467.6	2599.4	2765.5	2756.6	2650.7	2523.6	2026.1
25°	2348.0	2358.9	2372.6	2412.9	2505.8	2669.8	2889.2	2950.7	2840.7	2698.5	2109.5
27.5°	2494.9	2503.8	2503.1	2508.6	2561.2	2730.6	2996.5	3142.7	3029.3	2875.5	2190.1
30°	2662.3	2665.7	2668.5	2656.2	2667.8	2792.8	3094.9	3332.7	3219.2	3057.3	2260.5
32.5°	2865.9	2872.8	2849.5	2818.1	2808.5	2885.1	3176.2	3522.6	3444.1	3241.8	2330.2
35°	3106.5	3124.2	3077.1	3021.7	2982.8	3017.6	3285.5	3716.7	3674.3	3477.5	2422.5
37.5°	3381.2	3403.0	3359.3	3250.7	3195.3	3204.9	3428.3	3956.6	3965.4	3746.1	2559.8
40°	3606.0	3634.7	3636.1	3482.3	3398.3	3409.2	3609.4	4214.9	4316.7	4078.2	2721.8
42.5°	3754.3	3782.3	3811.7	3721.5	3633.3	3695.5	3820.6	4495.0	4711.7	4481.4	2947.9
45°	3916.9	3942.2	3958.6	3917.6	3868.4	4029.7	4075.5	4793.0	5132.6	4931.7	3195.3
47.5°	4105.5	4133.5	4149.3	4110.3	4091.9	4322.8	4350.2	5071.1	5582.2	5369.0	3468.7
50°	4357.0	4378.2	4370.0	4345.4	4341.3	4547.6	4613.9	5331.4	5953.3	5839.9	3752.2
52.5°	4670.0	4695.3	4704.1	4669.3	4653.6	4708.2	4826.5	5568.6	6290.9	6244.4	4055.0
55°	4859.3	4899.6	5034.9	5089.5	5127.1	4916.0	5055.4	5830.3	6593.6	6670.8	4380.2
57.5°	4616.7	4668.6	4971.3	5244.7	5597.9	5435.3	5380.0	6103.6	6896.3	7084.2	4769.7
60°	4024.9	4036.5	4426.7	4930.3	5641.0	6102.9	6057.2	6538.2	7224.3	7501.1	5282.9
62.5°	2792.1	2816.7	3278.0	4081.6	5109.4	6343.5	7209.3	7288.5	7694.4	8125.0	6035.3
65°	1439.8	1407.7	1827.9	2565.3	3852.0	5772.2	8142.7	8668.2	8714.0	9100.8	7094.5
67.5°	886.3	900.6	1097.4	1497.9	2277.6	4195.0	8045.0	10354.0	10112.8	10298.7	8077.8
70°	665.6	683.3	818.6	1025.0	1388.6	2398.5	6469.9	10762.7	11099.5	11051.7	8377.1
71°	578.8	597.2	738.0	932.8	1166.5	1851.2	5451.0	10334.9	11133.7	11125.5	8264.4
72.5°	493.4	505.0	615.0	789.9	983.3	1297.7	4095.3	9268.9	10658.8	10931.4	7861.9
75°	387.5	396.3	445.5	602.7	774.2	796.8	2197.6	6948.9	8754.3	9273.7	6545.1
77.5°	315.7	321.9	347.1	447.6	597.2	564.4	1152.8	4523.0	5484.5	6007.3	3855.4
80°	250.8	257.6	272.7	303.4	447.6	402.5	550.1	2291.9	2649.3	2643.9	1538.9
82.5°	194.8	196.8	214.6	222.8	306.1	285.6	297.9	970.3	1074.9	1110.4	555.6
85°	123.0	129.2	190.0	170.8	183.1	167.4	146.9	385.4	474.9	468.1	222.1
87.5°	37.6	39.6	64.2	72.4	81.3	73.1	54.0	113.4	138.7	150.3	55.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9
2.5°	1534.8	1527.3	1500.6	1478.8	1458.3	1435.7	1416.6	1411.1	1406.3	1404.3	1403.6
5°	1549.1	1526.6	1474.0	1430.9	1396.8	1365.3	1345.5	1336.6	1327.7	1327.7	1330.5
7.5°	1569.6	1528.6	1447.3	1383.1	1340.0	1310.7	1296.3	1294.9	1297.0	1299.0	1299.7
10°	1592.2	1527.3	1408.4	1328.4	1290.2	1276.5	1277.2	1288.8	1299.7	1307.9	1309.3
12.5°	1614.1	1519.1	1362.6	1277.2	1252.6	1255.3	1274.4	1300.4	1321.6	1333.2	1333.9
15°	1638.7	1506.1	1307.2	1228.7	1220.5	1241.6	1277.2	1316.8	1348.9	1368.1	1370.1
17.5°	1659.2	1484.2	1249.2	1181.5	1191.8	1230.7	1279.9	1331.2	1370.1	1394.0	1398.1
20°	1682.4	1456.2	1189.0	1136.4	1165.8	1218.4	1274.4	1329.8	1370.1	1393.3	1398.8
22.5°	1700.8	1416.6	1131.6	1099.5	1142.5	1203.4	1256.0	1300.4	1333.2	1345.5	1353.7
25°	1708.4	1366.7	1077.6	1069.4	1124.1	1178.8	1214.3	1239.6	1249.8	1248.5	1251.9
27.5°	1704.3	1309.3	1031.2	1045.5	1100.9	1140.5	1158.3	1156.2	1137.8	1120.7	1128.9
30°	1687.2	1241.0	992.2	1020.9	1070.8	1092.7	1089.9	1063.3	1028.4	996.3	998.4
32.5°	1656.4	1167.2	956.0	992.9	1028.4	1038.0	1019.5	984.7	934.8	893.1	887.0
35°	1630.5	1096.8	923.9	960.8	986.1	981.3	963.5	918.4	873.3	836.4	830.3
37.5°	1626.4	1036.6	893.1	924.6	938.9	932.1	910.2	871.9	855.5	827.5	824.1
40°	1648.2	994.3	861.7	886.3	893.1	887.7	863.7	841.9	856.9	850.1	850.1
42.5°	1707.7	971.7	833.7	848.0	853.5	857.6	840.5	822.1	840.5	809.1	798.8
45°	1802.0	972.4	808.4	810.4	826.8	841.2	829.6	802.2	792.7	729.8	717.5
47.5°	1940.7	995.6	787.9	774.9	804.3	828.2	811.8	772.2	729.8	688.1	680.6
50°	2102.6	1037.3	769.4	738.0	774.2	811.8	799.5	753.0	709.3	684.0	679.2
52.5°	2282.4	1089.9	746.9	697.0	737.3	804.3	802.2	750.3	690.2	673.1	669.0
55°	2504.5	1141.9	718.9	649.2	704.5	798.1	794.7	727.8	686.1	673.8	672.4
57.5°	2762.8	1217.0	678.6	600.7	666.9	772.9	765.3	714.1	672.4	663.5	662.8
60°	3178.9	1333.9	621.2	556.2	628.7	728.4	738.0	690.9	650.5	648.5	647.8
62.5°	3726.3	1497.9	561.7	510.5	584.3	671.0	698.4	659.4	627.3	637.6	638.9
65°	4482.0	1635.9	500.2	471.5	535.1	615.7	660.8	630.0	601.3	621.2	621.2
67.5°	4974.7	1638.7	444.2	431.2	485.2	569.2	621.2	595.2	567.9	601.3	602.7
70°	4872.2	1435.7	397.7	388.8	436.7	519.3	577.4	556.9	525.5	555.6	544.6
71°	4706.9	1323.0	379.3	372.4	417.5	495.4	556.9	539.8	508.4	528.2	522.1
72.5°	4443.1	1148.7	349.2	350.6	388.8	465.4	528.2	510.5	479.0	490.0	487.9
75°	3755.7	1003.1	298.6	304.8	334.2	414.1	470.8	457.2	425.0	425.0	423.0
77.5°	2348.0	701.1	248.1	251.5	283.6	354.7	404.5	392.9	362.2	351.9	349.2
80°	876.0	362.2	194.1	198.2	218.0	279.5	334.8	323.9	292.5	280.9	269.9
82.5°	331.4	181.8	142.8	139.4	160.6	213.2	262.4	249.4	224.8	196.8	188.6
85°	125.1	90.2	87.5	84.7	94.3	126.4	162.6	159.9	133.9	114.1	112.1
87.5°	32.8	29.4	34.2	25.3	26.7	23.9	24.6	10.3	4.8	2.1	1.4
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)