

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: P451310

Luminaire Tested: **GALN-SA2A-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451310
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-SA2A-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7350 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 63
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

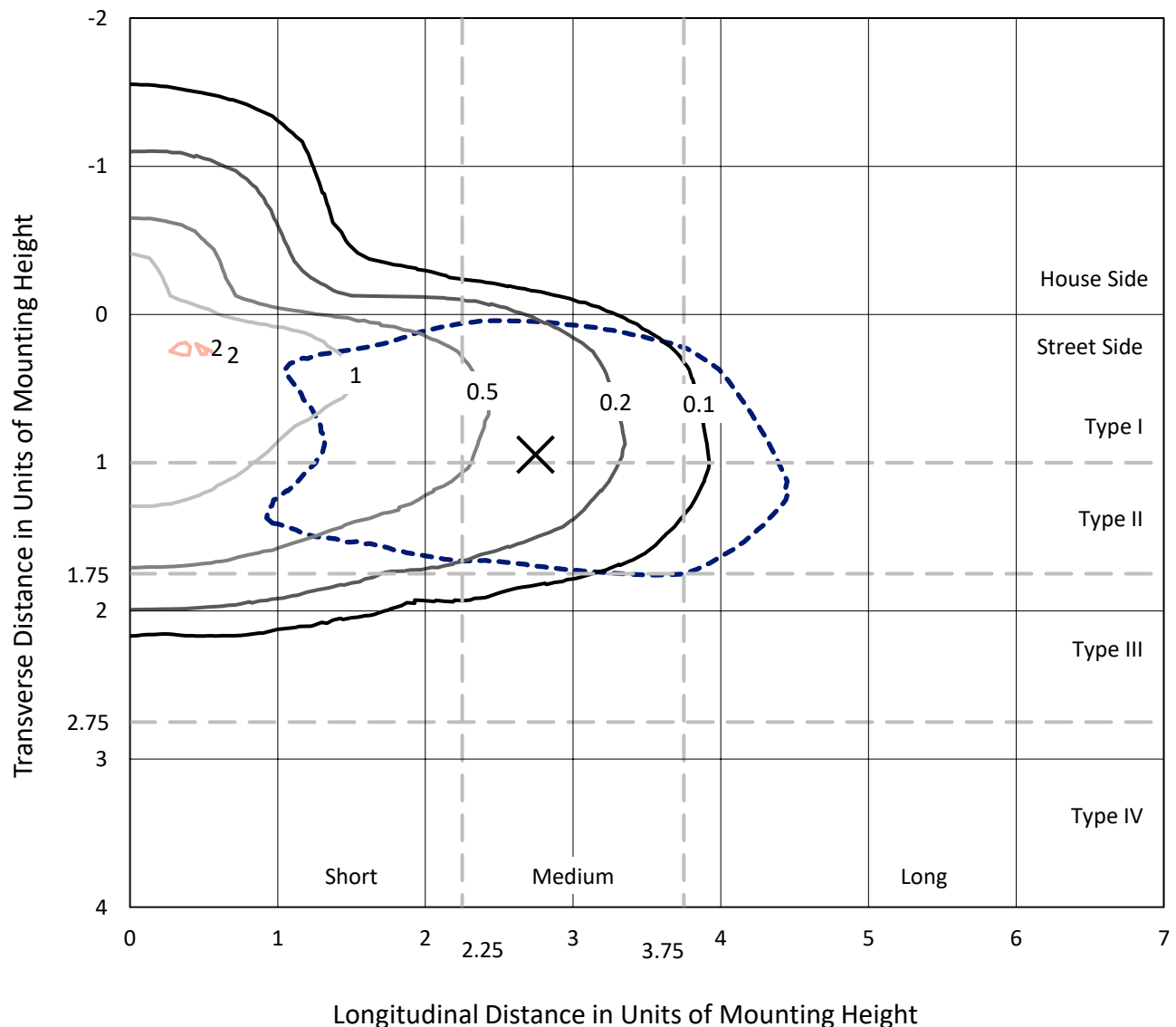


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

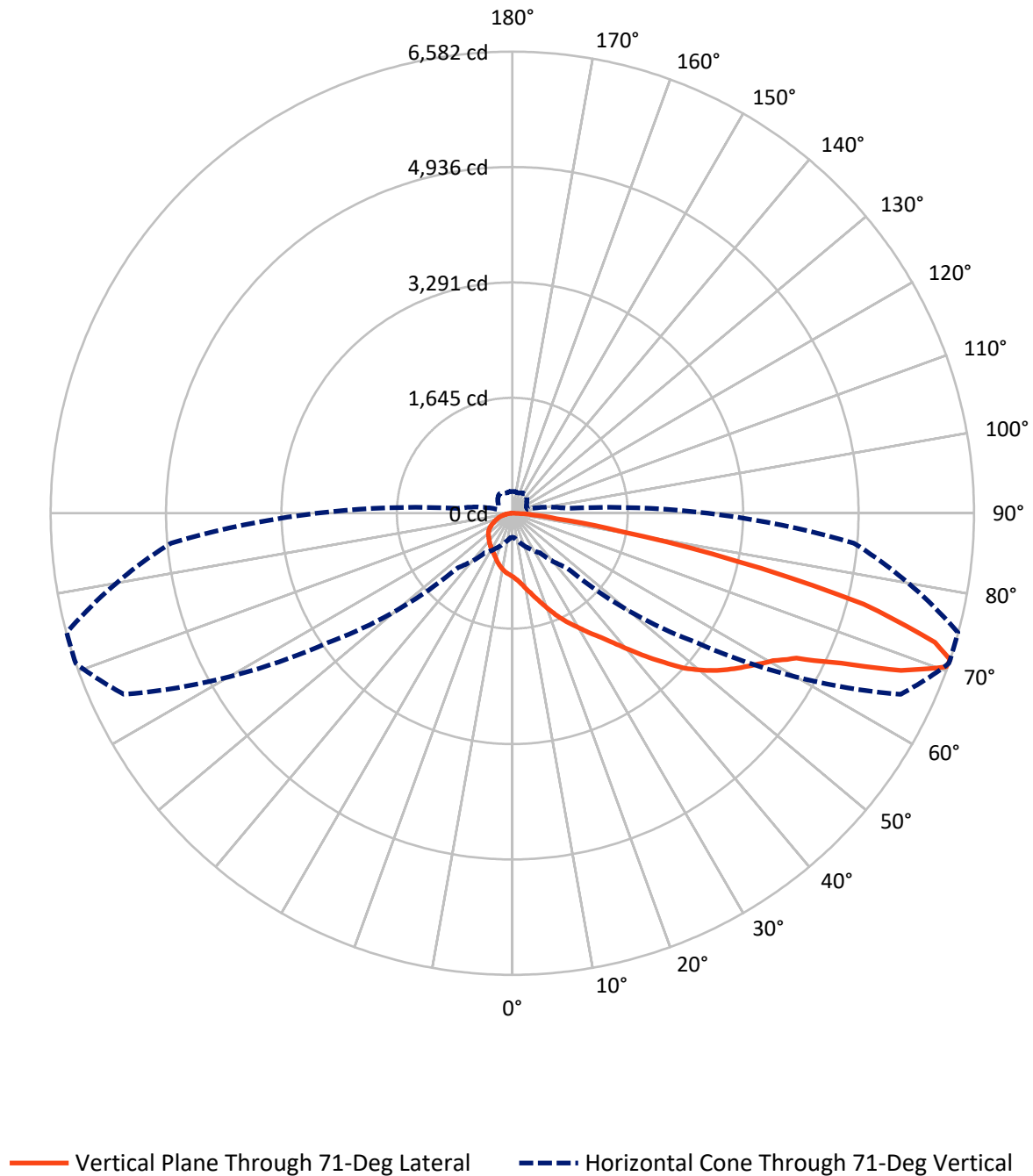


Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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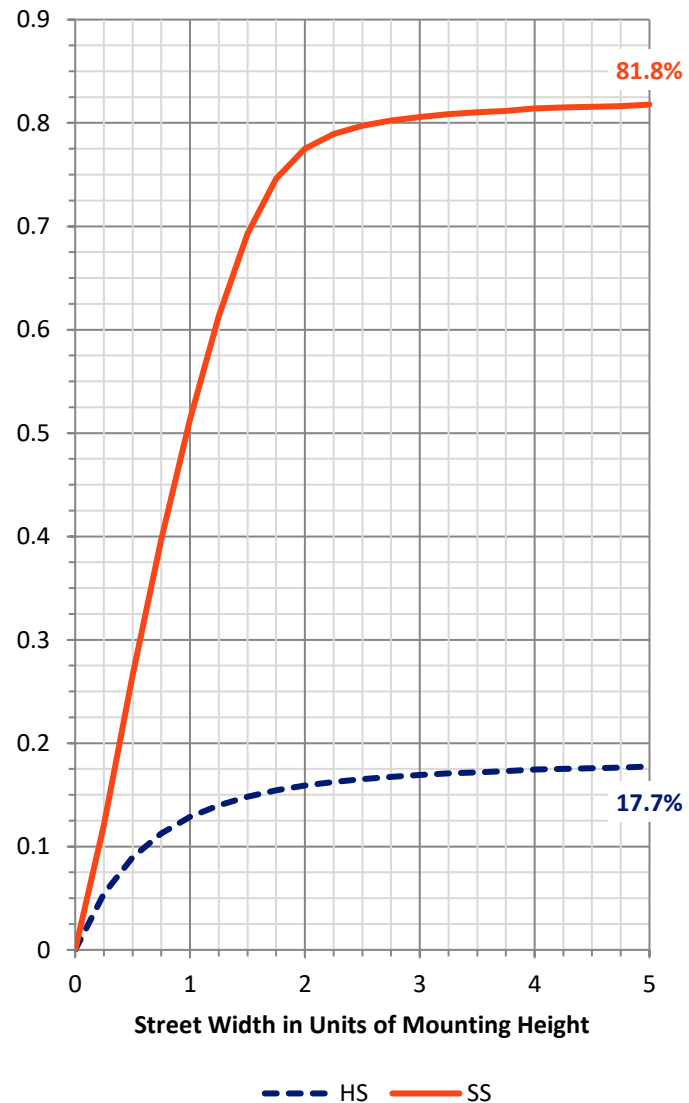
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1321.9	0.0	1321.9
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	6028.1	0.0	6028.1
	% Fixture	82.0	0.0	82.0
Total	Lumens	7350.0	0.0	7350.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	1.2
10°-20°	294.3	4.0
20°-30°	514.3	7.0
30°-40°	764.9	10.4
40°-50°	1127.0	15.3
50°-60°	1577.8	21.5
60°-70°	1764.7	24.0
70°-80°	1077.9	14.7
80°-90°	138.7	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°	7350.0	100.0
0°-180°	7350.0	100.0

Coefficient of Utilization



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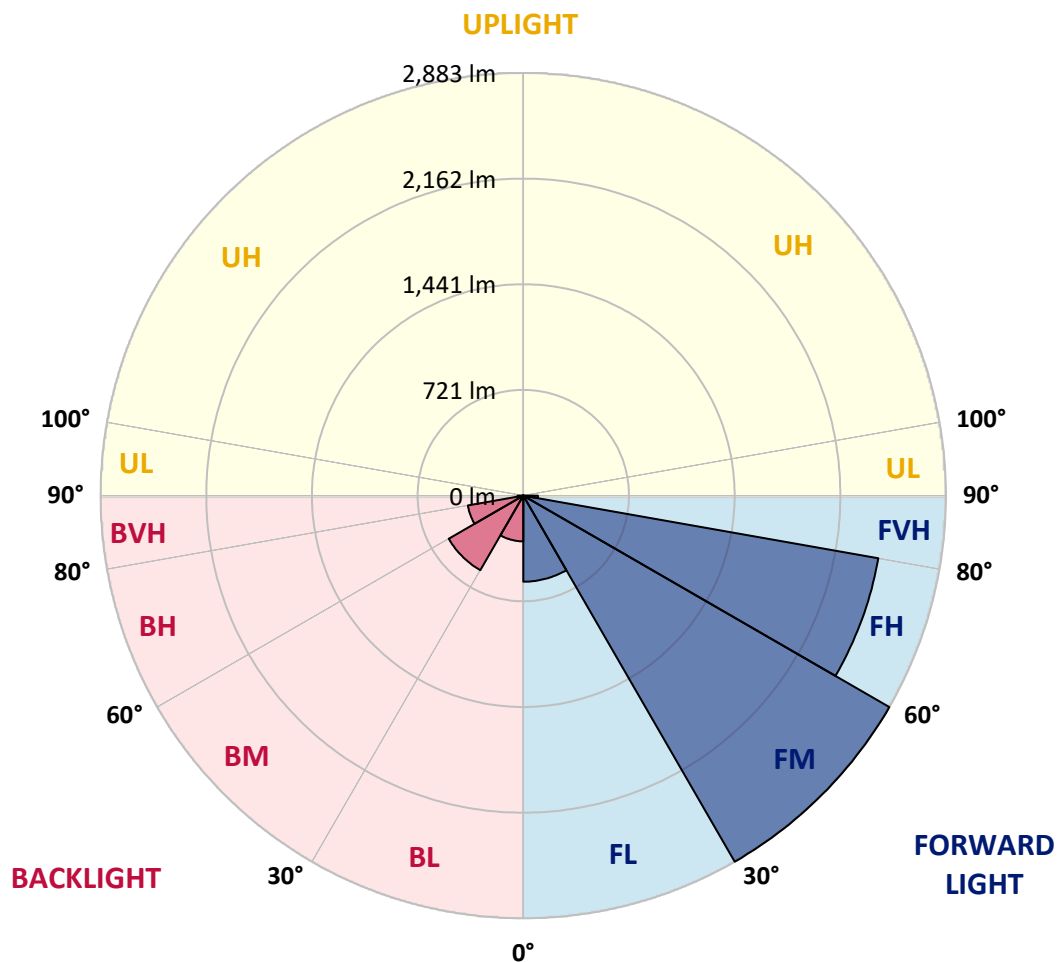
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	587.3	8.0			
FM	(30°-60°)	2882.5	39.2			
FH	(60°-80°)	2458.6	33.4			G2/5000
FVH	(80°-90°)	99.8	1.4			G1/100
BL	(0°-30°)	311.8	4.2	B1/500		
BM	(30°-60°)	587.1	8.0	B1/1000		
BH	(60°-80°)	384.1	5.2	B1/500		G1/500
BVH	(80°-90°)	38.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	902.1	902.1	902.1	902.1	902.1	902.1	902.1	902.1	902.1	902.1	902.1
2.5°	1001.4	996.6	997.0	990.1	981.2	971.6	957.8	945.7	936.0	930.3	913.8
5°	1109.7	1104.9	1098.8	1083.9	1077.4	1053.6	1023.3	995.8	974.8	963.1	929.9
7.5°	1197.4	1196.2	1194.5	1186.1	1169.5	1136.4	1110.5	1062.8	1031.7	1009.5	953.0
10°	1251.5	1253.5	1254.7	1256.4	1249.5	1232.1	1196.6	1136.4	1096.8	1068.5	982.9
12.5°	1279.0	1281.0	1287.9	1302.8	1312.1	1310.1	1281.0	1222.0	1167.5	1130.3	1014.8
15°	1295.9	1299.2	1311.3	1331.1	1362.2	1382.0	1367.8	1313.3	1253.5	1209.5	1052.7
17.5°	1314.5	1318.2	1331.5	1359.8	1400.6	1443.4	1458.7	1411.9	1346.8	1294.3	1095.2
20°	1325.0	1329.9	1348.9	1386.0	1433.7	1495.9	1546.8	1522.2	1451.1	1392.9	1144.0
22.5°	1342.0	1346.0	1362.2	1401.8	1458.7	1536.7	1634.9	1629.6	1567.0	1491.9	1197.8
25°	1388.0	1394.5	1402.6	1426.4	1481.4	1578.3	1708.0	1744.3	1679.3	1595.3	1247.1
27.5°	1474.9	1480.2	1479.7	1483.0	1514.1	1614.3	1771.4	1857.9	1790.8	1699.9	1294.7
30°	1573.9	1575.9	1577.5	1570.2	1577.1	1651.0	1829.6	1970.2	1903.1	1807.4	1336.3
32.5°	1694.3	1698.3	1684.6	1666.0	1660.3	1705.6	1877.7	2082.5	2036.0	1916.4	1377.5
35°	1836.5	1847.0	1819.1	1786.4	1763.3	1783.9	1942.3	2197.2	2172.2	2055.8	1432.1
37.5°	1998.8	2011.8	1985.9	1921.7	1889.0	1894.6	2026.7	2339.0	2344.2	2214.6	1513.3
40°	2131.8	2148.7	2149.5	2058.6	2008.9	2015.4	2133.8	2491.7	2551.9	2410.9	1609.0
42.5°	2219.4	2236.0	2253.4	2200.0	2147.9	2184.7	2258.6	2657.3	2785.4	2649.2	1742.7
45°	2315.6	2330.5	2340.2	2316.0	2286.9	2382.2	2409.3	2833.5	3034.2	2915.5	1889.0
47.5°	2427.1	2443.6	2452.9	2429.9	2419.0	2555.5	2571.7	2997.9	3300.0	3174.0	2050.6
50°	2575.7	2588.2	2583.4	2568.9	2566.4	2688.4	2727.6	3151.8	3519.4	3452.3	2218.2
52.5°	2760.7	2775.7	2780.9	2760.3	2751.0	2783.4	2853.2	3292.0	3719.0	3691.5	2397.2
55°	2872.6	2896.5	2976.5	3008.8	3031.0	2906.2	2988.6	3446.7	3897.9	3943.6	2589.5
57.5°	2729.2	2759.9	2938.9	3100.5	3309.3	3213.2	3180.5	3608.3	4076.9	4188.0	2819.7
60°	2379.4	2386.3	2616.9	2914.7	3334.8	3607.9	3580.8	3865.2	4270.8	4434.4	3123.1
62.5°	1650.6	1665.2	1937.8	2412.9	3020.5	3750.1	4261.9	4308.8	4548.7	4803.2	3567.9
65°	851.2	832.2	1080.6	1516.5	2277.2	3412.3	4813.7	5124.4	5151.4	5380.1	4194.0
67.5°	524.0	532.4	648.8	885.5	1346.4	2480.0	4756.0	6121.0	5978.4	6088.2	4775.3
70°	393.5	404.0	484.0	606.0	820.9	1417.9	3824.8	6362.5	6561.7	6533.4	4952.3
71°	342.2	353.1	436.3	551.4	689.6	1094.4	3222.5	6109.7	6581.9	6577.1	4885.6
72.5°	291.7	298.5	363.6	467.0	581.3	767.1	2421.0	5479.5	6301.1	6462.3	4647.7
75°	229.1	234.3	263.4	356.3	457.7	471.0	1299.2	4108.0	5175.3	5482.3	3869.2
77.5°	186.6	190.3	205.2	264.6	353.1	333.7	681.5	2673.9	3242.3	3551.3	2279.2
80°	148.3	152.3	161.2	179.4	264.6	237.9	325.2	1354.9	1566.2	1563.0	909.7
82.5°	115.1	116.3	126.8	131.7	181.0	168.9	176.1	573.6	635.4	656.5	328.4
85°	72.7	76.4	112.3	101.0	108.3	99.0	86.9	227.8	280.8	276.7	131.3
87.5°	22.2	23.4	38.0	42.8	48.1	43.2	31.9	67.1	82.0	88.9	32.7
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°	902.1	902.1	902.1	902.1	902.1	902.1	902.1	902.1	902.1	902.1	902.1
2.5°	907.3	902.9	887.1	874.2	862.1	848.7	837.4	834.2	831.4	830.2	829.8
5°	915.8	902.5	871.4	845.9	825.7	807.1	795.4	790.2	784.9	784.9	786.5
7.5°	927.9	903.7	855.6	817.6	792.2	774.8	766.3	765.5	766.7	767.9	768.4
10°	941.3	902.9	832.6	785.3	762.7	754.6	755.0	761.9	768.4	773.2	774.0
12.5°	954.2	898.0	805.5	755.0	740.5	742.1	753.4	768.8	781.3	788.1	788.6
15°	968.7	890.4	772.8	726.3	721.5	734.0	755.0	778.5	797.4	808.8	810.0
17.5°	980.8	877.4	738.5	698.5	704.5	727.6	756.6	786.9	810.0	824.1	826.5
20°	994.6	860.9	702.9	671.8	689.2	720.3	753.4	786.1	810.0	823.7	826.9
22.5°	1005.5	837.4	669.0	650.0	675.4	711.4	742.5	768.8	788.1	795.4	800.3
25°	1009.9	807.9	637.1	632.2	664.5	696.9	717.9	732.8	738.9	738.1	740.1
27.5°	1007.5	774.0	609.6	618.1	650.8	674.2	684.7	683.5	672.6	662.5	667.4
30°	997.4	733.6	586.6	603.5	633.0	645.9	644.3	628.6	608.0	589.0	590.2
32.5°	979.2	690.0	565.2	587.0	608.0	613.6	602.7	582.1	552.6	528.0	524.4
35°	963.9	648.4	546.2	568.0	582.9	580.1	569.6	542.9	516.3	494.5	490.8
37.5°	961.5	612.8	528.0	546.6	555.1	551.0	538.1	515.5	505.8	489.2	487.2
40°	974.4	587.8	509.4	524.0	528.0	524.8	510.6	497.7	506.6	502.5	502.5
42.5°	1009.5	574.4	492.8	501.3	504.6	507.0	496.9	486.0	496.9	478.3	472.2
45°	1065.3	574.9	477.9	479.1	488.8	497.3	490.4	474.3	468.6	431.4	424.2
47.5°	1147.3	588.6	465.8	458.1	475.5	489.6	479.9	456.5	431.4	406.8	402.4
50°	1243.0	613.2	454.9	436.3	457.7	479.9	472.6	445.2	419.3	404.4	401.5
52.5°	1349.3	644.3	441.5	412.1	435.9	475.5	474.3	443.6	408.0	397.9	395.5
55°	1480.6	675.0	425.0	383.8	416.5	471.8	469.8	430.2	405.6	398.3	397.5
57.5°	1633.3	719.5	401.1	355.1	394.3	456.9	452.4	422.1	397.5	392.3	391.9
60°	1879.3	788.6	367.2	328.8	371.7	430.6	436.3	408.4	384.6	383.4	383.0
62.5°	2202.9	885.5	332.1	301.8	345.4	396.7	412.9	389.8	370.8	376.9	377.7
65°	2649.6	967.1	295.7	278.7	316.3	364.0	390.6	372.5	355.5	367.2	367.2
67.5°	2940.9	968.7	262.6	254.9	286.8	336.5	367.2	351.9	335.7	355.5	356.3
70°	2880.3	848.7	235.1	229.9	258.1	307.0	341.4	329.2	310.7	328.4	322.0
71°	2782.6	782.1	224.2	220.2	246.8	292.9	329.2	319.1	300.6	312.3	308.6
72.5°	2626.6	679.1	206.4	207.2	229.9	275.1	312.3	301.8	283.2	289.6	288.4
75°	2220.2	593.0	176.5	180.2	197.5	244.8	278.3	270.3	251.3	251.3	250.1
77.5°	1388.0	414.5	146.6	148.7	167.6	209.7	239.2	232.3	214.1	208.0	206.4
80°	517.9	214.1	114.7	117.2	128.9	165.2	197.9	191.5	172.9	166.0	159.6
82.5°	195.9	107.5	84.4	82.4	94.9	126.0	155.1	147.4	132.9	116.3	111.5
85°	73.9	53.3	51.7	50.1	55.7	74.7	96.1	94.5	79.2	67.5	66.3
87.5°	19.4	17.4	20.2	14.9	15.8	14.1	14.5	6.1	2.8	1.2	0.8
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)