

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: P451078

Luminaire Tested: **GALN-SA1D-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451078
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-SA1D-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6256 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 65
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

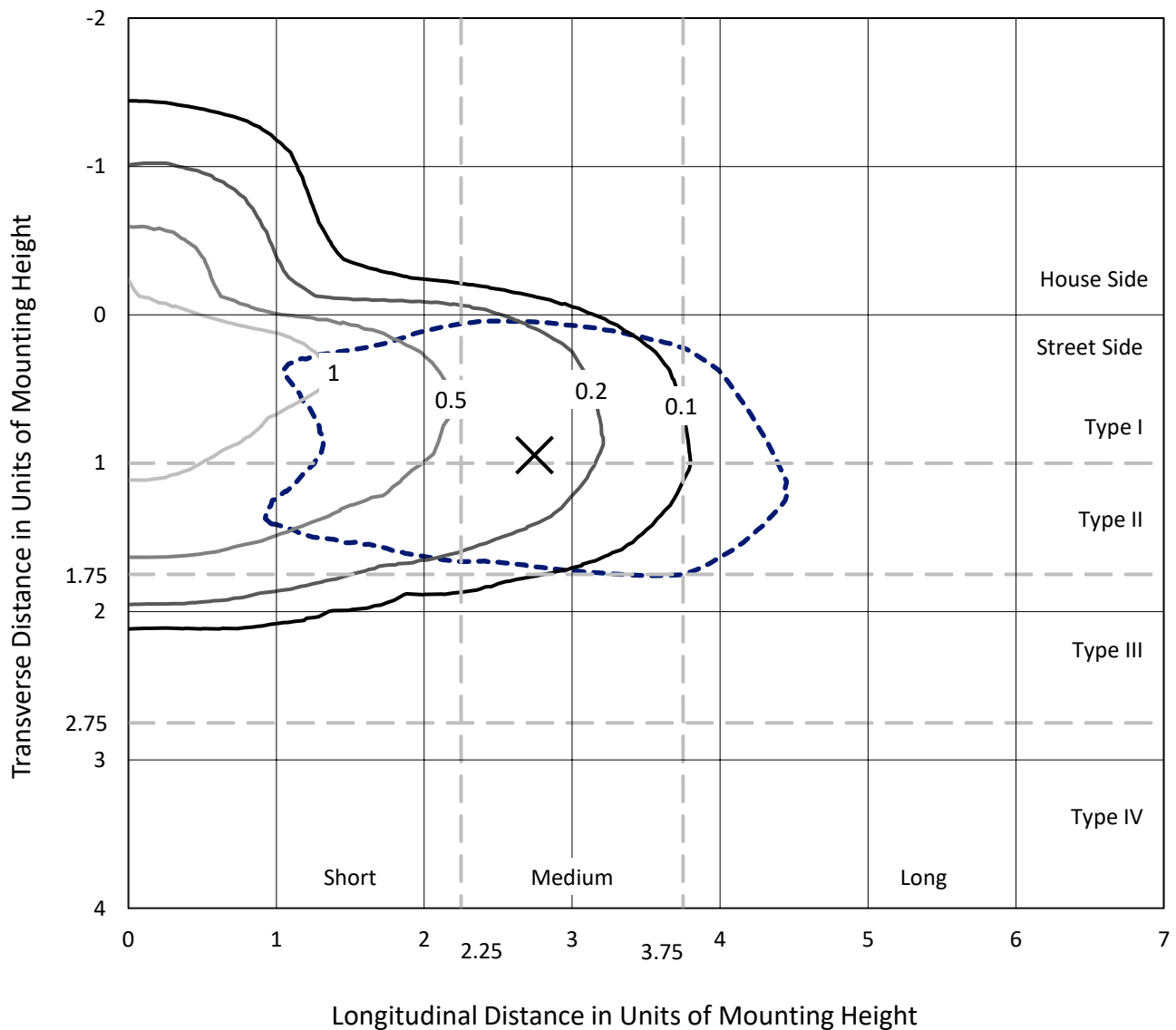


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

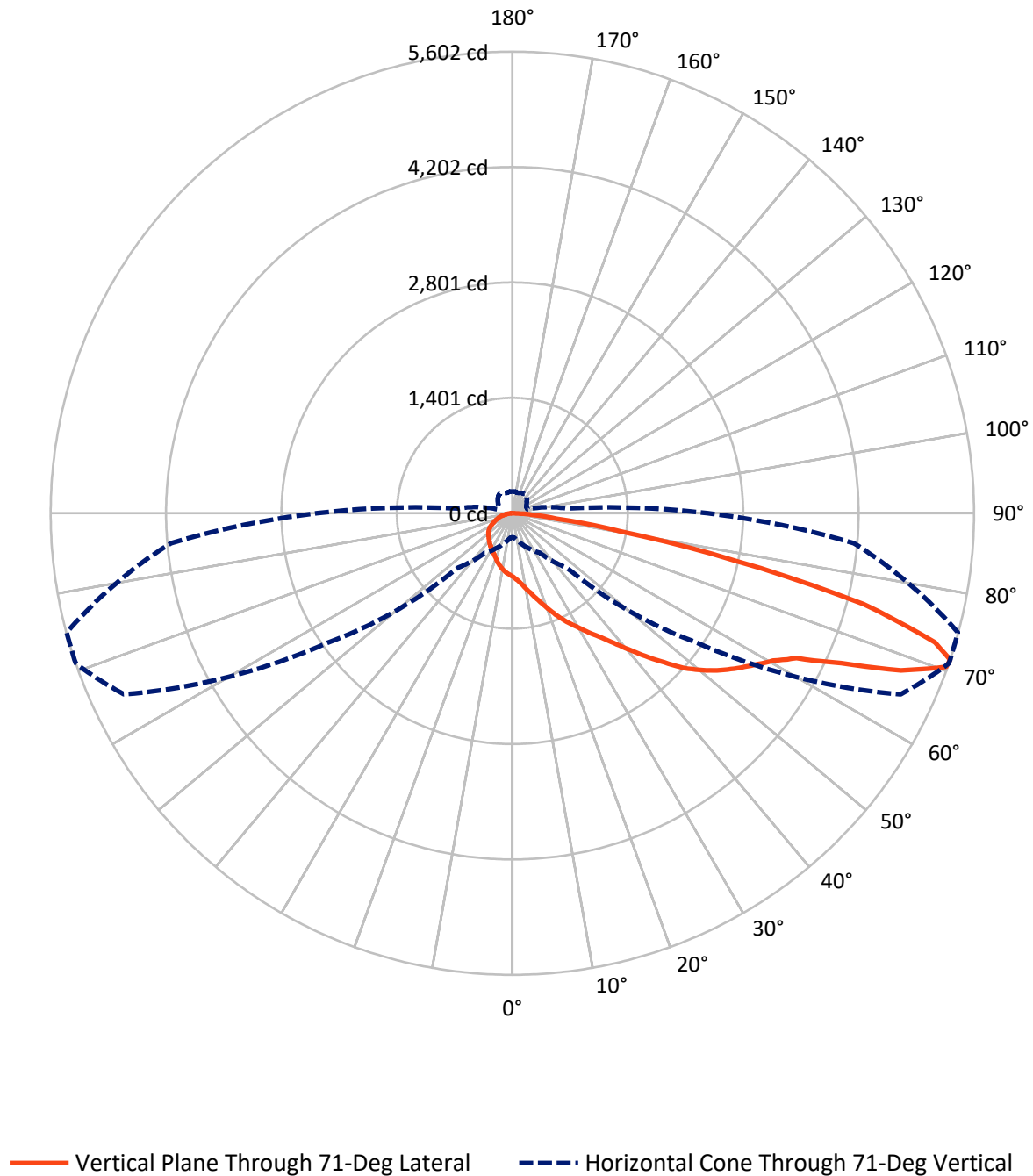


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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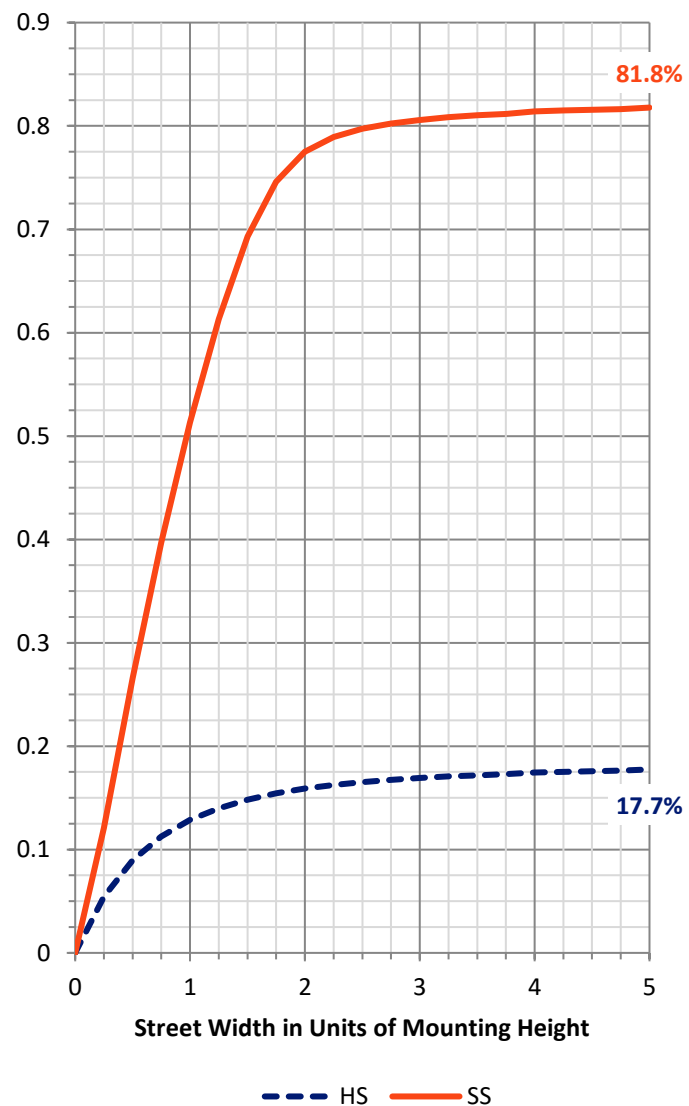
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1125.1	0.0	1125.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	5130.9	0.0	5130.9
	% Fixture	82.0	0.0	82.0
Total	Lumens	6256.0	0.0	6256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	1.2
10°-20°	250.5	4.0
20°-30°	437.7	7.0
30°-40°	651.0	10.4
40°-50°	959.2	15.3
50°-60°	1342.9	21.5
60°-70°	1502.0	24.0
70°-80°	917.5	14.7
80°-90°	118.0	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°	6256.0	100.0
0°-180°	6256.0	100.0

Coefficient of Utilization



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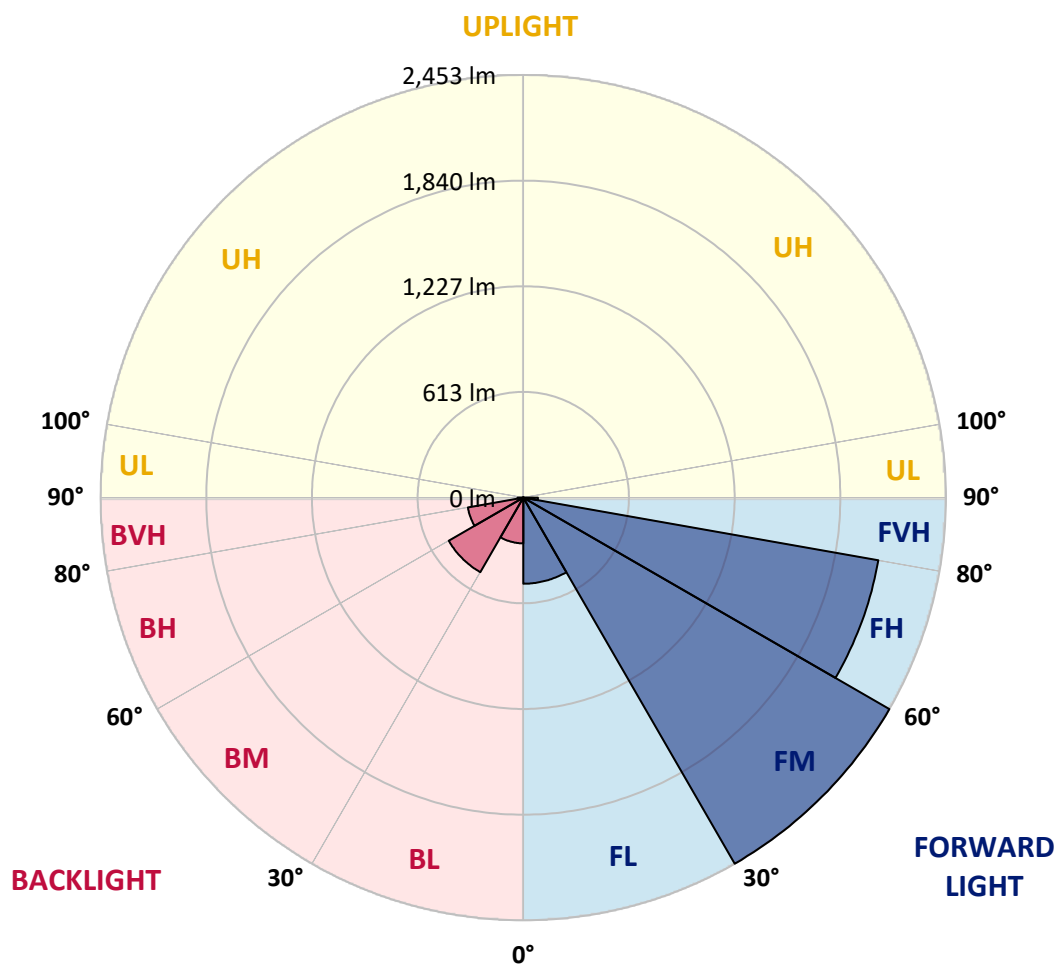
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	499.9	8.0			
FM	(30°-60°)	2453.5	39.2			
FH	(60°-80°)	2092.6	33.4			G2/5000
FVH	(80°-90°)	84.9	1.4			G1/100
BL	(0°-30°)	265.4	4.2	B1/500		
BM	(30°-60°)	499.7	8.0	B1/1000		
BH	(60°-80°)	326.9	5.2	B1/500		G1/500
BVH	(80°-90°)	33.1	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°	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8
2.5°	852.4	848.3	848.6	842.8	835.2	826.9	815.3	804.9	796.7	791.9	777.8
5°	944.5	940.4	935.3	922.5	917.0	896.7	871.0	847.6	829.7	819.7	791.5
7.5°	1019.1	1018.1	1016.7	1009.5	995.4	967.2	945.2	904.6	878.2	859.3	811.1
10°	1065.2	1066.9	1068.0	1069.4	1063.5	1048.7	1018.5	967.2	933.5	909.5	836.6
12.5°	1088.6	1090.3	1096.2	1108.9	1116.8	1115.1	1090.3	1040.1	993.7	962.1	863.7
15°	1103.0	1105.8	1116.1	1133.0	1159.4	1176.3	1164.3	1117.8	1066.9	1029.5	896.1
17.5°	1118.9	1122.0	1133.3	1157.4	1192.1	1228.5	1241.6	1201.7	1146.4	1101.7	932.2
20°	1127.8	1131.9	1148.1	1179.7	1220.3	1273.2	1316.6	1295.6	1235.1	1185.6	973.8
22.5°	1142.2	1145.7	1159.4	1193.1	1241.6	1308.0	1391.5	1387.1	1333.8	1269.8	1019.5
25°	1181.4	1186.9	1193.8	1214.1	1260.9	1343.4	1453.8	1484.7	1429.4	1357.8	1061.4
27.5°	1255.4	1259.8	1259.5	1262.2	1288.7	1374.0	1507.7	1581.3	1524.3	1446.9	1102.0
30°	1339.6	1341.3	1342.7	1336.5	1342.4	1405.3	1557.3	1676.9	1619.8	1538.4	1137.4
32.5°	1442.1	1445.5	1433.8	1418.0	1413.2	1451.7	1598.2	1772.5	1733.0	1631.2	1172.5
35°	1563.1	1572.0	1548.3	1520.5	1500.9	1518.4	1653.2	1870.2	1848.8	1749.8	1218.9
37.5°	1701.3	1712.3	1690.3	1635.7	1607.8	1612.6	1725.1	1990.8	1995.3	1884.9	1288.0
40°	1814.5	1828.9	1829.6	1752.2	1709.9	1715.4	1816.2	2120.8	2172.1	2052.1	1369.5
42.5°	1889.1	1903.2	1918.0	1872.6	1828.2	1859.5	1922.4	2261.8	2370.8	2254.9	1483.3
45°	1970.9	1983.6	1991.9	1971.2	1946.5	2027.6	2050.7	2411.7	2582.6	2481.5	1607.8
47.5°	2065.8	2079.9	2087.8	2068.2	2058.9	2175.1	2188.9	2551.7	2808.9	2701.6	1745.3
50°	2192.3	2203.0	2198.9	2186.5	2184.4	2288.3	2321.6	2682.7	2995.6	2938.5	1888.0
52.5°	2349.8	2362.5	2367.0	2349.5	2341.6	2369.1	2428.6	2802.0	3165.4	3142.0	2040.4
55°	2445.1	2465.4	2533.4	2560.9	2579.9	2473.6	2543.7	2933.7	3317.7	3356.6	2204.0
57.5°	2323.0	2349.1	2501.5	2639.0	2816.8	2734.9	2707.1	3071.2	3470.1	3564.6	2400.0
60°	2025.2	2031.1	2227.4	2480.8	2838.4	3070.9	3047.8	3289.9	3635.1	3774.4	2658.2
62.5°	1404.9	1417.3	1649.4	2053.8	2570.9	3191.9	3627.5	3667.4	3871.7	4088.3	3036.8
65°	724.5	708.3	919.8	1290.8	1938.2	2904.4	4097.2	4361.6	4384.7	4579.3	3569.8
67.5°	446.0	453.2	552.2	753.7	1146.0	2110.8	4048.1	5209.9	5088.5	5182.1	4064.6
70°	334.9	343.8	411.9	515.8	698.7	1206.9	3255.5	5415.5	5585.0	5561.0	4215.2
71°	291.2	300.5	371.4	469.3	586.9	931.5	2742.8	5200.3	5602.2	5598.1	4158.4
72.5°	248.3	254.1	309.5	397.5	494.8	653.0	2060.6	4663.9	5363.3	5500.5	3955.9
75°	195.0	199.4	224.2	303.3	389.6	400.9	1105.8	3496.5	4405.0	4666.3	3293.3
77.5°	158.9	161.9	174.7	225.2	300.5	284.0	580.1	2275.9	2759.7	3022.7	1940.0
80°	126.2	129.6	137.2	152.7	225.2	202.5	276.8	1153.2	1333.1	1330.3	774.3
82.5°	98.0	99.0	108.0	112.1	154.0	143.7	149.9	488.3	540.9	558.7	279.5
85°	61.9	65.0	95.6	86.0	92.1	84.2	73.9	193.9	239.0	235.5	111.7
87.5°	18.9	19.9	32.3	36.4	40.9	36.8	27.2	57.1	69.8	75.6	27.9
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°	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8
2.5°	772.3	768.5	755.1	744.1	733.8	722.4	712.8	710.0	707.6	706.6	706.3
5°	779.5	768.1	741.7	720.0	702.8	687.0	677.0	672.6	668.1	668.1	669.5
7.5°	789.8	769.2	728.3	695.9	674.3	659.5	652.3	651.6	652.6	653.6	654.0
10°	801.2	768.5	708.7	668.4	649.2	642.3	642.6	648.5	654.0	658.1	658.8
12.5°	812.2	764.4	685.6	642.6	630.3	631.6	641.3	654.3	665.0	670.8	671.2
15°	824.5	757.8	657.8	618.2	614.1	624.8	642.6	662.6	678.7	688.4	689.4
17.5°	834.8	746.8	628.5	594.5	599.7	619.3	644.0	669.8	689.4	701.4	703.5
20°	846.5	732.7	598.3	571.8	586.6	613.1	641.3	669.1	689.4	701.1	703.8
22.5°	855.8	712.8	569.4	553.2	574.9	605.5	632.0	654.3	670.8	677.0	681.2
25°	859.6	687.7	542.2	538.1	565.6	593.1	611.0	623.7	628.9	628.2	629.9
27.5°	857.5	658.8	518.9	526.1	553.9	573.9	582.8	581.8	572.5	563.9	568.0
30°	848.9	624.4	499.3	513.7	538.8	549.8	548.4	535.0	517.5	501.3	502.4
32.5°	833.5	587.3	481.0	499.6	517.5	522.3	513.0	495.5	470.4	449.4	446.3
35°	820.4	551.9	464.9	483.4	496.2	493.8	484.8	462.1	439.4	420.9	417.8
37.5°	818.3	521.6	449.4	465.2	472.4	469.0	458.0	438.7	430.5	416.4	414.7
40°	829.3	500.3	433.6	446.0	449.4	446.7	434.6	423.6	431.2	427.7	427.7
42.5°	859.3	488.9	419.5	426.7	429.5	431.5	422.9	413.6	422.9	407.1	402.0
45°	906.7	489.3	406.8	407.8	416.0	423.3	417.4	403.7	398.9	367.2	361.0
47.5°	976.5	501.0	396.5	389.9	404.7	416.7	408.5	388.5	367.2	346.2	342.5
50°	1058.0	522.0	387.2	371.4	389.6	408.5	402.3	378.9	356.9	344.2	341.8
52.5°	1148.4	548.4	375.8	350.7	371.0	404.7	403.7	377.5	347.3	338.7	336.6
55°	1260.2	574.6	361.7	326.7	354.5	401.6	399.9	366.2	345.2	339.0	338.3
57.5°	1390.2	612.4	341.4	302.2	335.6	388.9	385.1	359.3	338.3	333.9	333.5
60°	1599.6	671.2	312.6	279.9	316.3	366.5	371.4	347.6	327.3	326.3	326.0
62.5°	1875.0	753.7	282.6	256.9	294.0	337.7	351.4	331.8	315.6	320.8	321.5
65°	2255.3	823.2	251.7	237.3	269.2	309.8	332.5	317.0	302.6	312.6	312.6
67.5°	2503.2	824.5	223.5	217.0	244.1	286.4	312.6	299.5	285.7	302.6	303.3
70°	2451.6	722.4	200.1	195.6	219.7	261.3	290.5	280.2	264.4	279.5	274.0
71°	2368.4	665.7	190.8	187.4	210.1	249.3	280.2	271.6	255.8	265.8	262.7
72.5°	2235.7	578.0	175.7	176.4	195.6	234.2	265.8	256.9	241.0	246.5	245.5
75°	1889.8	504.8	150.3	153.4	168.1	208.4	236.9	230.0	213.9	213.9	212.8
77.5°	1181.4	352.8	124.8	126.5	142.7	178.5	203.6	197.7	182.2	177.1	175.7
80°	440.8	182.2	97.7	99.7	109.7	140.6	168.5	163.0	147.2	141.3	135.8
82.5°	166.8	91.5	71.9	70.1	80.8	107.3	132.0	125.5	113.1	99.0	94.9
85°	62.9	45.4	44.0	42.6	47.5	63.6	81.8	80.5	67.4	57.4	56.4
87.5°	16.5	14.8	17.2	12.7	13.4	12.0	12.4	5.2	2.4	1.0	0.7
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)