

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: P452247

Luminaire Tested: **GALN-SA3A-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7848 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93
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

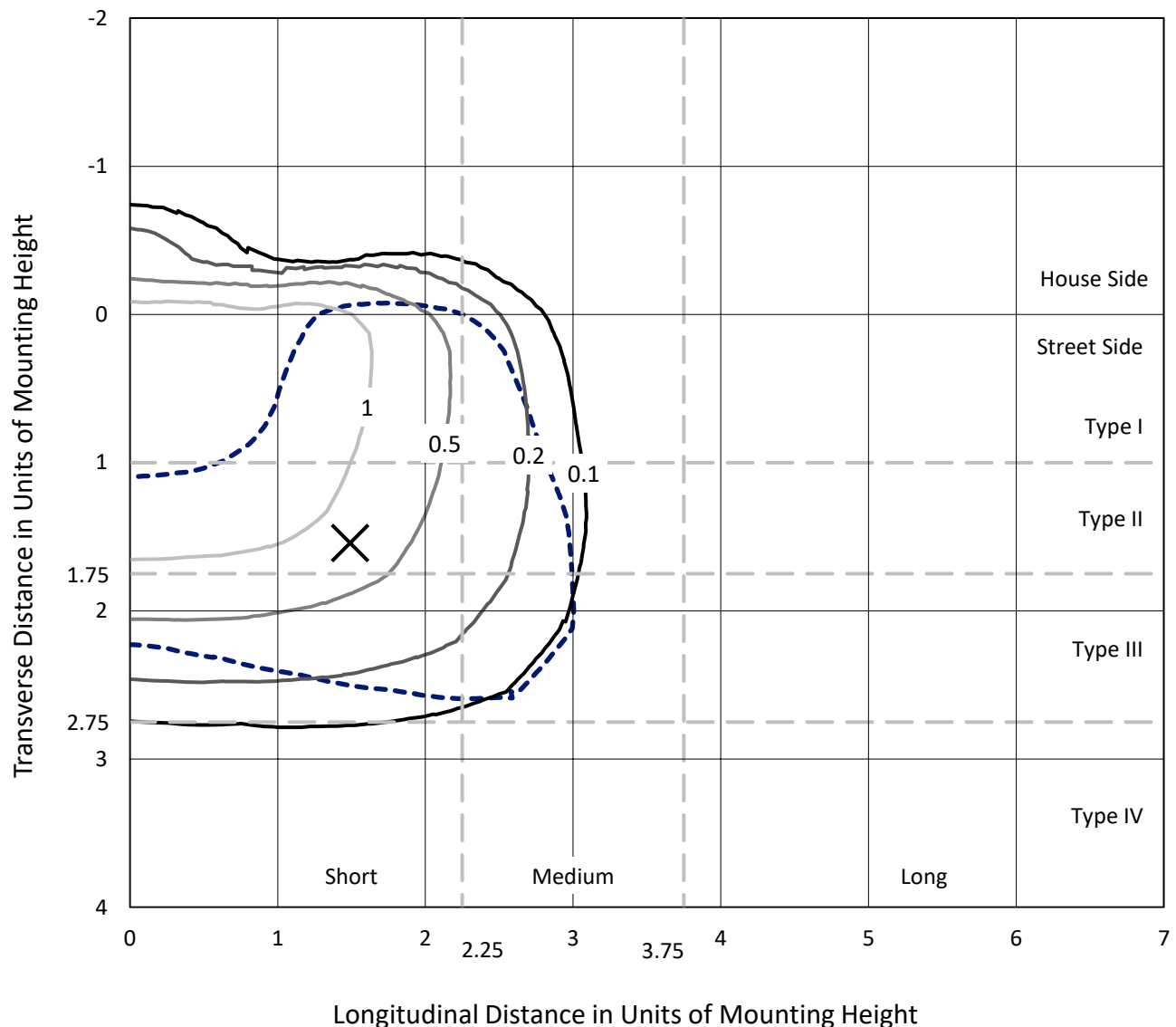


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Iso-Footcandle Lines of Horizontal Illumination

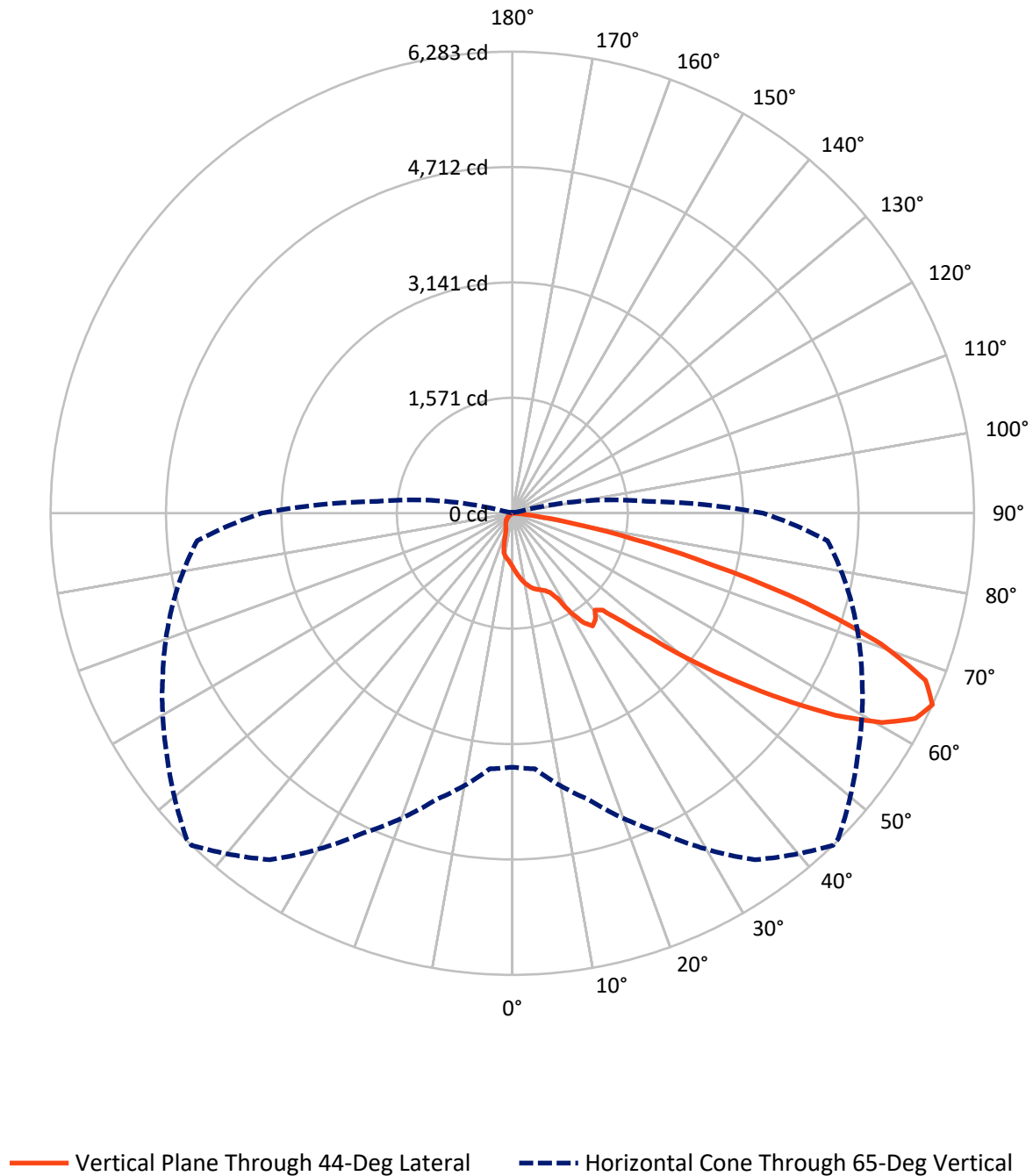
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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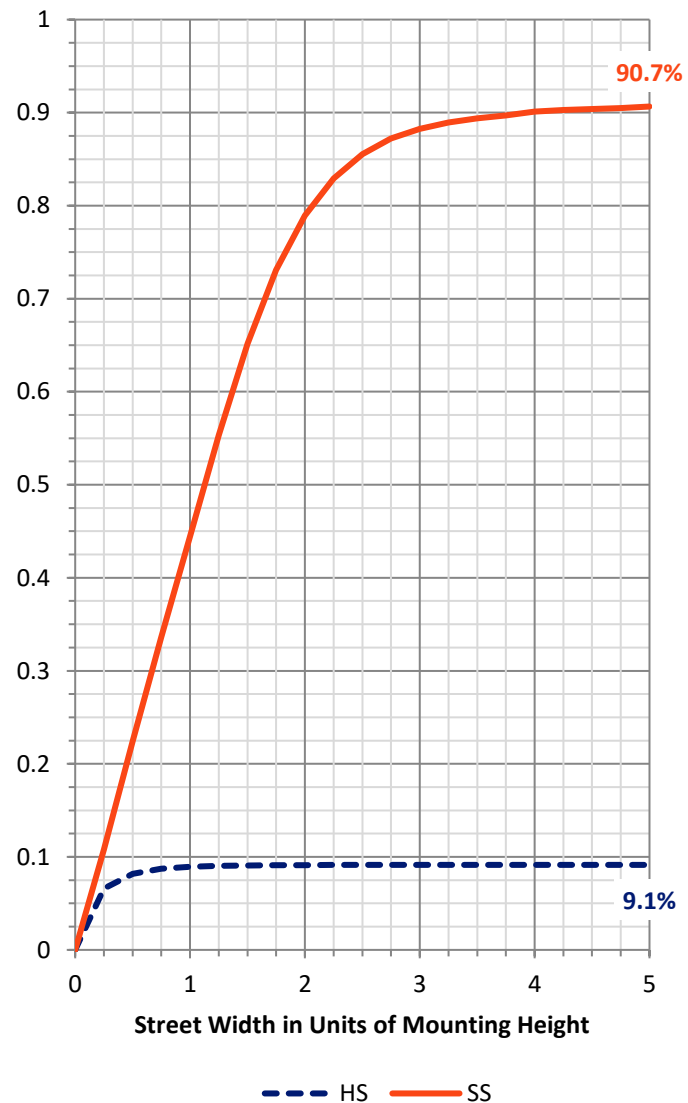
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	723.1	0.0	723.1
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	7124.9	0.0	7124.9
	% Fixture	90.8	0.0	90.8
Total	Lumens	7848.0	0.0	7848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	0.9
10°-20°	218.6	2.8
20°-30°	370.7	4.7
30°-40°	616.4	7.9
40°-50°	1076.3	13.7
50°-60°	2102.7	26.8
60°-70°	2439.6	31.1
70°-80°	888.4	11.3
80°-90°	62.6	0.8
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°	7848.0	100.0
0°-180°	7848.0	100.0

Coefficient of Utilization



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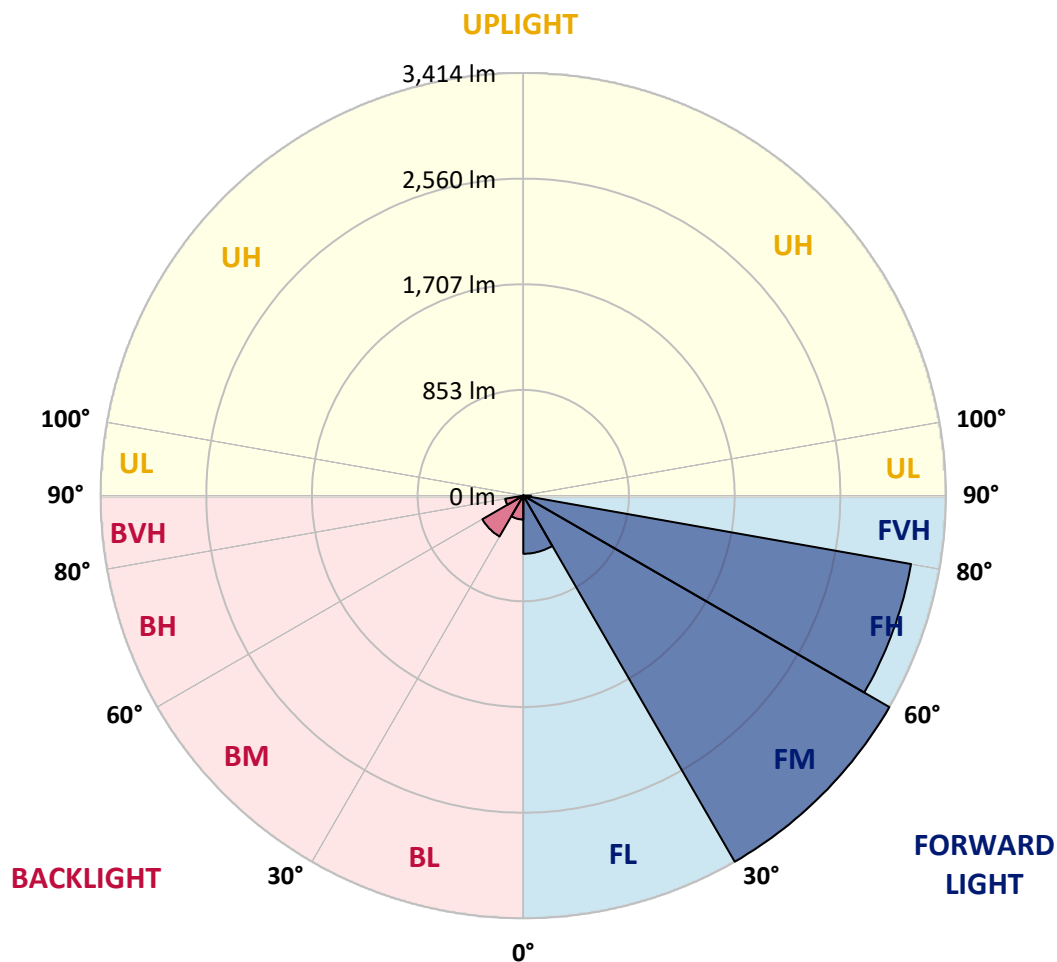
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	469.4	6.0			
FM	(30°-60°)	3413.9	43.5			
FH	(60°-80°)	3179.9	40.5			G2/5000
FVH	(80°-90°)	61.7	0.8			G1/100
BL	(0°-30°)	192.7	2.5	B1/500		
BM	(30°-60°)	381.5	4.9	B1/1000		
BH	(60°-80°)	148.1	1.9	B1/500		G1/500
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	730.4	730.4	730.4	730.4	730.4	730.4	730.4	730.4	730.4	730.4	730.4
2.5°	822.2	818.6	816.8	807.2	800.0	791.0	791.0	779.6	766.4	752.0	738.8
5°	913.9	907.9	900.1	891.7	874.9	851.0	851.0	827.0	799.4	774.8	747.8
7.5°	1002.1	996.7	983.5	967.3	939.7	914.5	912.7	877.9	845.0	807.8	769.4
10°	1079.4	1075.2	1063.8	1032.7	1003.9	970.9	970.3	931.3	892.9	847.4	800.0
12.5°	1133.4	1134.0	1119.0	1089.0	1051.8	1020.7	1018.3	979.9	939.7	890.5	832.4
15°	1171.8	1171.8	1156.2	1122.6	1089.0	1061.4	1059.0	1025.5	984.1	930.7	867.7
17.5°	1182.6	1186.2	1169.4	1139.4	1112.4	1088.4	1087.8	1059.6	1026.7	975.1	903.7
20°	1178.4	1182.0	1168.8	1145.4	1126.8	1113.0	1111.2	1099.8	1069.2	1020.7	942.1
22.5°	1169.4	1173.0	1163.4	1149.6	1140.6	1144.8	1141.8	1151.4	1135.2	1076.4	987.7
25°	1171.2	1174.8	1167.6	1159.8	1167.6	1193.4	1201.2	1242.5	1228.2	1147.2	1036.9
27.5°	1227.6	1234.7	1224.6	1228.2	1255.7	1315.7	1330.7	1402.1	1338.5	1237.1	1113.6
30°	1352.9	1348.1	1328.9	1346.3	1442.2	1569.4	1565.2	1553.8	1454.2	1340.9	1204.8
32.5°	1466.8	1462.6	1461.4	1536.4	1710.3	1772.1	1769.1	1658.7	1558.0	1459.6	1294.7
35°	1513.0	1496.8	1493.2	1674.9	1965.8	1884.2	1865.6	1701.9	1683.9	1589.2	1386.5
37.5°	1652.1	1640.7	1585.0	1697.7	1863.8	1836.8	1822.4	1776.3	1818.2	1703.7	1490.2
40°	1938.8	1907.0	1856.6	1746.3	1719.3	1730.7	1745.1	1871.6	1977.2	1860.2	1628.7
42.5°	2295.0	2287.8	2194.2	1988.6	1786.5	1802.0	1820.6	2070.7	2205.6	2095.9	1854.8
45°	2722.6	2732.8	2597.8	2355.0	2089.9	2103.1	2130.1	2364.6	2515.1	2462.3	2210.4
47.5°	3111.2	3103.4	3057.8	2805.3	2560.6	2531.3	2575.0	2741.8	2943.2	2951.6	2651.8
50°	3502.2	3543.5	3475.8	3376.8	3195.1	3133.3	3117.2	3198.7	3505.8	3465.6	3181.9
52.5°	4064.1	4085.6	3958.5	3933.3	3974.7	3774.4	3758.2	3778.0	4052.7	3914.7	3578.9
55°	4417.3	4404.7	4357.3	4554.0	4717.7	4467.6	4447.3	4367.5	4506.6	4232.0	3960.9
57.5°	4528.8	4546.8	4657.1	5012.8	5400.2	5187.9	5150.7	4924.0	4834.1	4527.6	4312.3
60°	4479.0	4512.0	4750.1	5279.0	5816.3	5784.5	5752.8	5372.0	5069.1	4774.7	4558.8
62.5°	4124.6	4170.8	4551.6	5231.6	5957.3	6155.8	6116.2	5651.4	5225.6	4894.6	4602.0
65°	3456.6	3490.8	4037.7	4801.7	5757.0	6282.9	6268.5	5739.0	5250.2	4784.9	4306.3
67.5°	2464.1	2580.4	3087.2	4046.7	5164.5	6065.8	6090.4	5634.0	5019.4	4310.5	3566.3
70°	1549.0	1628.1	1991.5	2897.1	4140.2	5321.6	5402.6	5153.7	4356.1	3360.0	2387.3
72.5°	738.8	797.6	1056.6	1833.8	2922.3	4187.0	4251.2	4230.8	3368.4	2116.9	1231.8
75°	329.2	351.4	504.3	936.1	1886.6	2814.3	2980.4	3008.0	2104.9	1035.7	479.1
77.5°	167.9	168.5	236.3	453.4	942.1	1679.1	1712.1	1808.6	1141.2	456.4	166.7
80°	89.4	95.3	125.3	214.1	488.7	827.0	822.8	904.3	506.1	223.7	55.8
82.5°	40.2	44.4	70.8	112.1	238.7	313.6	338.2	370.0	217.1	142.7	24.6
85°	12.0	14.4	34.8	56.4	86.4	90.6	101.3	130.7	122.9	101.3	12.6
87.5°	1.8	1.8	14.4	15.6	12.6	16.2	16.8	18.6	39.6	37.2	6.6
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°	730.4	730.4	730.4	730.4	730.4	730.4	730.4	730.4	730.4	730.4	730.4
2.5°	731.6	727.4	712.4	699.8	689.0	682.4	674.6	669.8	667.4	665.6	666.2
5°	734.6	724.4	698.6	678.2	662.7	645.9	634.5	627.9	624.9	620.1	620.1
7.5°	751.4	735.2	699.2	668.0	641.1	618.3	596.7	588.9	583.5	582.3	581.1
10°	775.4	755.0	705.8	662.7	624.3	593.1	562.5	535.5	514.5	501.9	500.1
12.5°	805.4	776.0	716.0	659.1	609.9	554.7	473.8	419.2	382.6	371.2	373.0
15°	833.0	801.2	726.2	656.1	583.5	460.0	368.2	305.8	287.2	285.4	286.0
17.5°	865.9	828.2	738.2	651.9	510.9	351.4	273.5	256.7	260.3	266.3	265.7
20°	900.1	856.9	752.6	626.7	407.8	264.5	241.7	243.5	248.9	254.3	255.5
22.5°	936.7	889.9	769.4	566.1	311.2	230.3	229.1	231.5	236.9	242.9	244.1
25°	987.1	931.3	782.0	486.9	235.7	212.9	215.3	219.5	224.3	230.9	232.1
27.5°	1051.8	987.1	788.6	383.8	203.9	197.3	197.9	203.9	209.9	215.9	215.9
30°	1135.8	1053.6	775.4	290.2	188.3	182.3	179.9	183.5	191.3	197.3	197.9
32.5°	1210.8	1116.6	740.6	221.9	176.9	168.5	162.5	163.1	166.1	169.7	170.3
35°	1285.7	1177.8	681.2	186.5	164.9	155.3	146.3	141.5	139.1	137.3	139.1
37.5°	1381.7	1253.9	602.1	169.7	154.7	142.7	130.1	119.9	111.5	106.1	107.3
40°	1505.2	1359.5	508.5	158.9	145.1	130.7	113.9	100.7	86.4	81.6	79.2
42.5°	1709.1	1519.6	410.2	149.9	135.5	118.1	97.1	79.2	66.0	61.2	62.4
45°	2031.1	1721.7	316.0	140.3	125.9	104.3	81.6	62.4	51.6	49.2	50.4
47.5°	2458.1	1983.2	243.5	129.5	113.9	89.4	64.2	49.2	42.6	42.0	41.4
50°	2859.9	2226.6	203.3	117.5	99.5	74.4	52.8	41.4	37.2	36.6	36.6
52.5°	3223.3	2401.1	165.5	103.7	84.0	61.2	44.4	36.6	33.0	31.2	31.2
55°	3546.5	2515.1	134.3	87.0	66.0	48.6	38.4	33.0	28.8	26.4	25.8
57.5°	3790.6	2528.9	100.7	69.6	49.2	37.8	33.0	28.8	24.0	21.0	19.8
60°	3894.9	2409.5	74.4	52.8	36.6	30.0	26.4	23.4	18.0	15.0	14.4
62.5°	3790.0	2177.5	55.2	40.2	28.2	22.2	18.6	17.4	12.6	9.0	8.4
65°	3414.0	1842.2	43.8	30.6	21.0	16.2	12.0	11.4	7.8	4.2	3.6
67.5°	2735.2	1442.8	34.8	22.8	15.0	10.8	7.8	7.2	4.2	1.2	1.2
70°	1778.7	922.3	28.2	16.8	9.6	7.2	4.8	3.6	2.4	0.6	0.0
72.5°	879.7	431.2	22.8	13.2	6.6	3.6	1.8	1.2	1.8	0.0	0.0
75°	341.2	153.5	16.8	9.0	3.6	1.8	1.2	0.0	0.6	0.0	0.0
77.5°	113.3	51.0	10.2	4.8	2.4	1.2	0.0	0.0	0.0	0.0	0.0
80°	42.0	19.8	5.4	3.0	1.2	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	16.8	7.8	3.6	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.4	4.8	2.4	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	3.6	2.4	1.8	1.2	0.6	0.0	0.0	0.0	0.0	0.0
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)