

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: P451295

Luminaire Tested: **GALN-SA2A-830-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
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-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5987 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

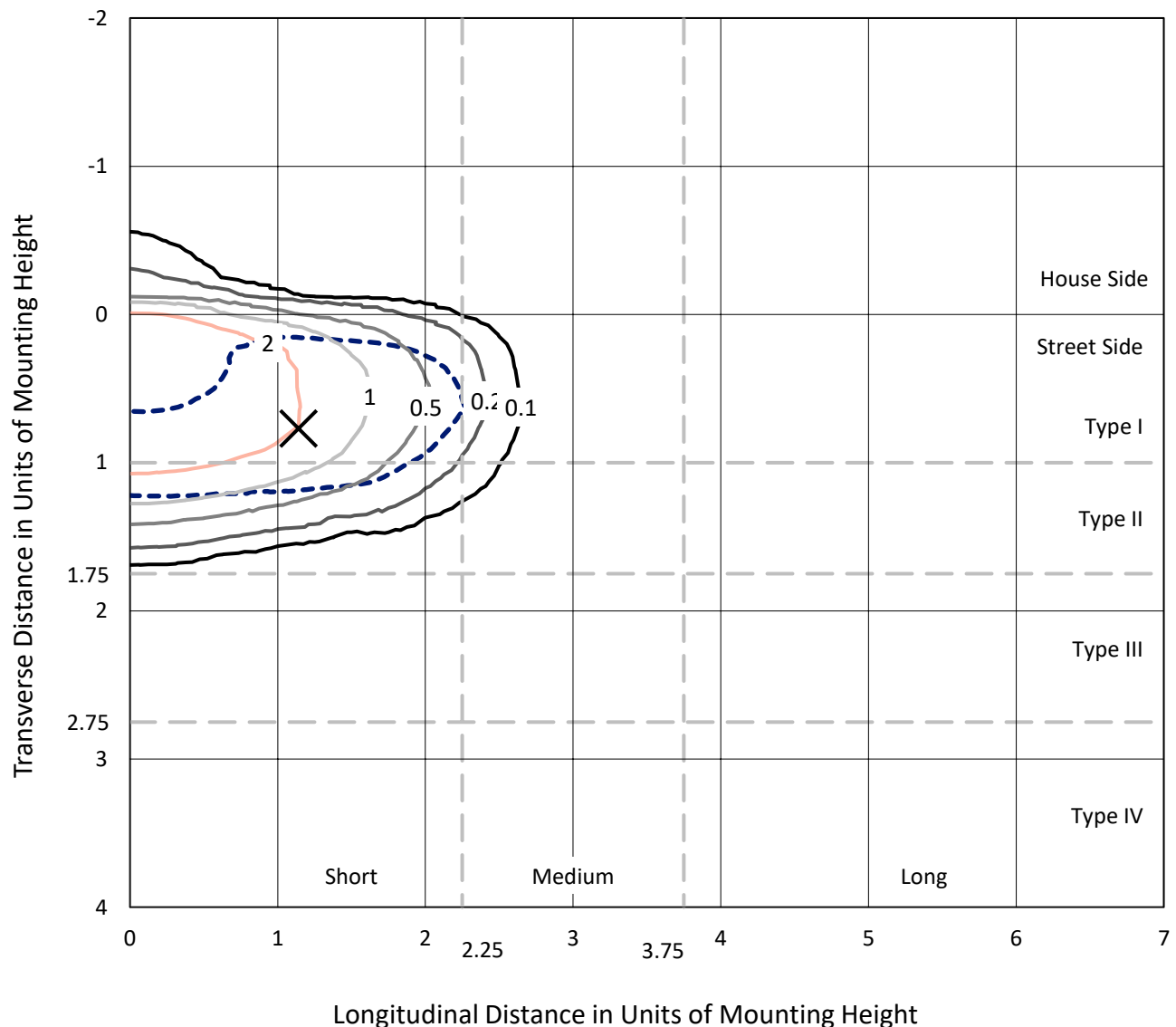


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Iso-Footcandle Lines of Horizontal Illumination

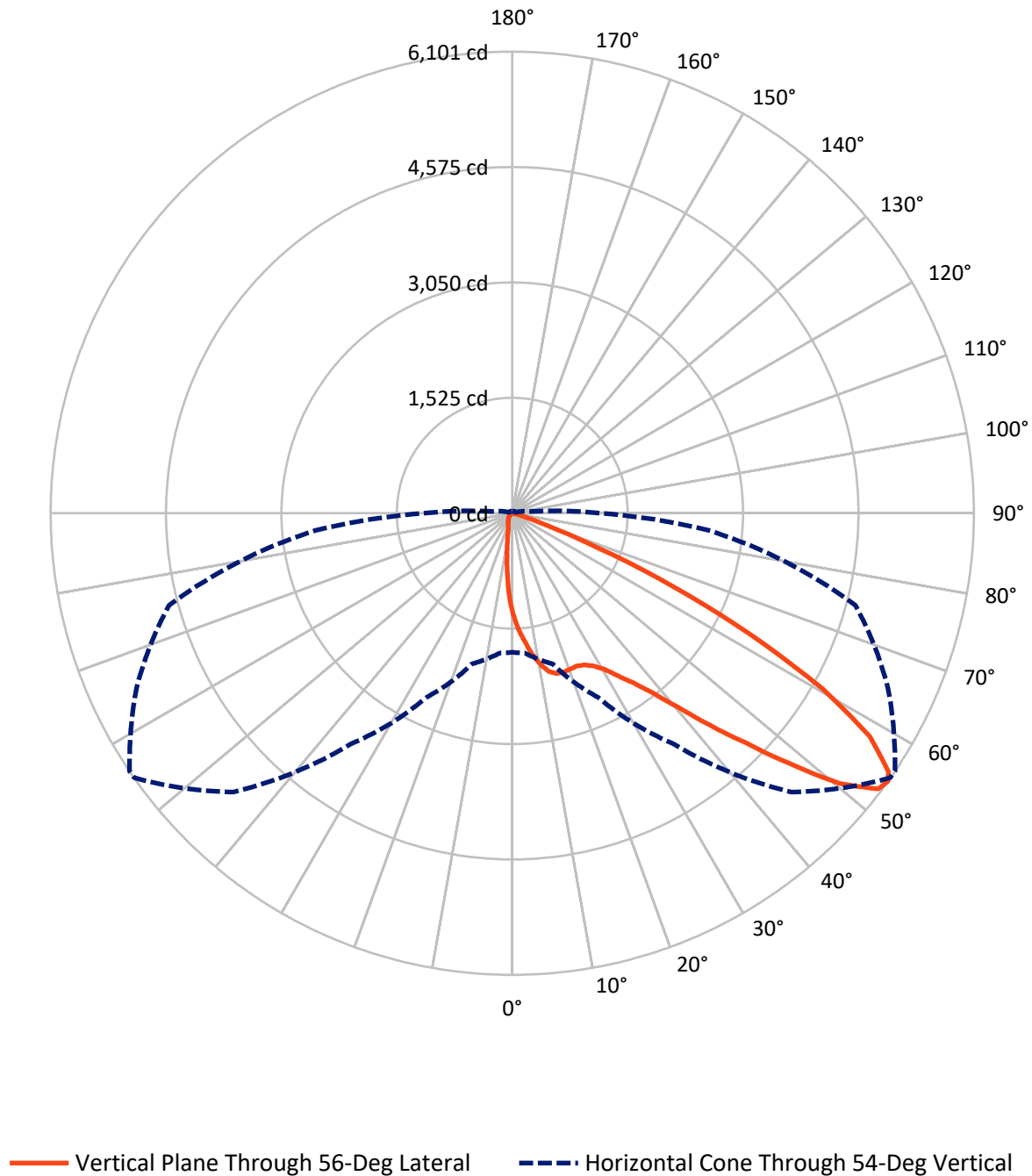
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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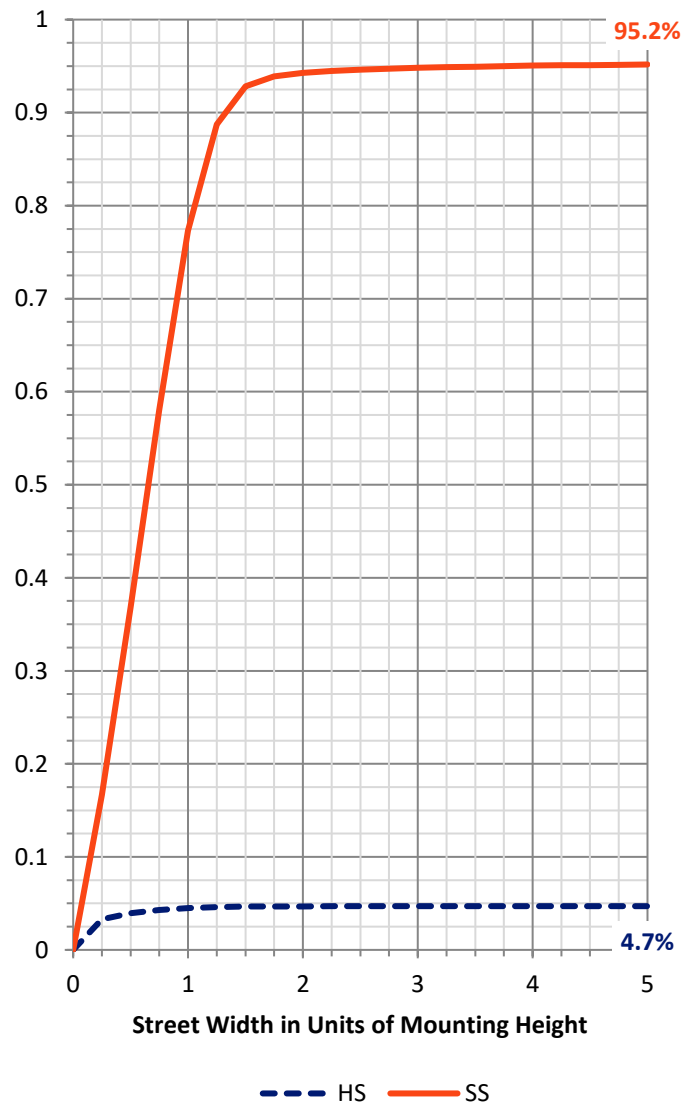
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	283.1	0.0	283.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	5703.9	0.0	5703.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	5987.0	0.0	5987.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	2.0
10°-20°	317.7	5.3
20°-30°	550.3	9.2
30°-40°	949.9	15.9
40°-50°	1616.8	27.0
50°-60°	1600.0	26.7
60°-70°	730.3	12.2
70°-80°	93.8	1.6
80°-90°	10.6	0.2
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°	5987.0	100.0
0°-180°	5987.0	100.0

Coefficient of Utilization



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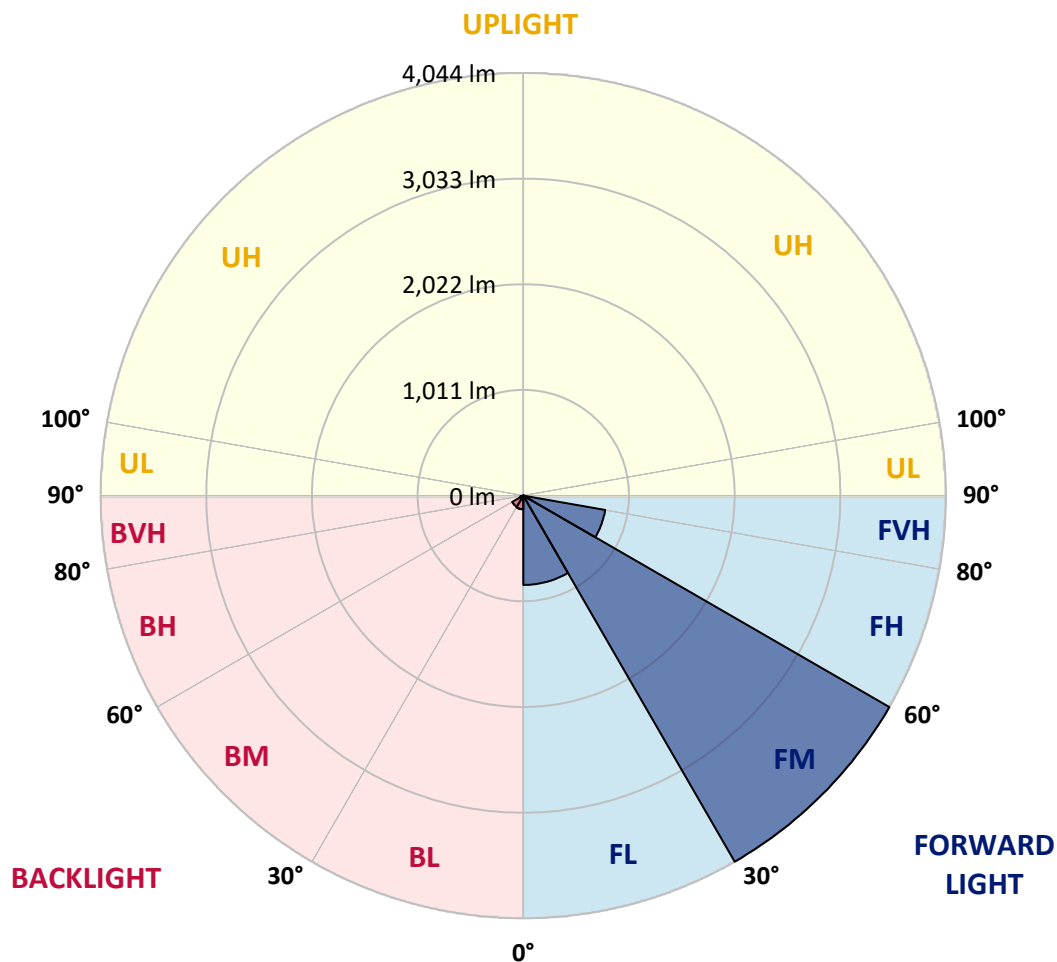
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	854.7	14.3			
FM	(30°-60°)	4044.1	67.5			
FH	(60°-80°)	795.7	13.3			G1/1800
FVH	(80°-90°)	9.4	0.2			G0/10
BL	(0°-30°)	130.9	2.2	B1/500		
BM	(30°-60°)	122.7	2.0	B0/220		
BH	(60°-80°)	28.3	0.5	B0/110		G0/110
BVH	(80°-90°)	1.1	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1330.1	1330.1	1330.1	1330.1	1330.1	1330.1	1330.1	1330.1	1330.1	1330.1	1330.1
2.5°	1690.4	1678.7	1662.6	1650.1	1620.6	1578.2	1533.3	1533.3	1490.1	1429.9	1368.5
5°	1949.8	1942.1	1926.3	1894.0	1860.9	1801.5	1711.4	1695.7	1618.5	1509.5	1394.8
7.5°	2055.2	2058.8	2059.6	2051.2	2035.4	1976.8	1887.6	1876.7	1753.5	1607.2	1429.1
10°	1954.2	1972.0	1989.4	2024.5	2074.2	2088.3	2037.8	2026.5	1905.3	1706.2	1466.3
12.5°	1803.9	1813.6	1823.3	1878.7	1978.4	2092.8	2145.7	2145.3	2042.7	1804.8	1513.5
15°	1734.1	1742.6	1743.4	1768.0	1854.4	2020.9	2191.7	2197.8	2176.8	1926.3	1564.4
17.5°	1748.6	1755.5	1749.8	1755.9	1801.1	1941.7	2186.5	2206.7	2285.4	2043.1	1610.5
20°	1843.5	1856.9	1835.1	1818.1	1831.8	1920.7	2168.7	2197.0	2362.2	2157.0	1652.5
22.5°	2014.0	2021.3	1993.8	1947.3	1923.1	1964.7	2163.8	2191.7	2427.6	2250.3	1676.7
25°	2203.4	2201.0	2170.7	2118.6	2067.7	2053.6	2195.8	2220.8	2481.7	2334.3	1684.0
27.5°	2392.9	2400.1	2349.3	2284.6	2223.6	2186.9	2267.3	2285.8	2542.7	2430.0	1692.9
30°	2613.0	2601.3	2551.2	2477.3	2407.4	2356.1	2382.4	2387.6	2626.8	2556.9	1716.3
32.5°	2899.4	2867.1	2810.9	2681.7	2631.6	2544.8	2551.2	2557.7	2728.9	2682.5	1744.6
35°	3288.0	3286.4	3176.5	3002.4	2880.4	2772.6	2744.3	2749.5	2883.7	2869.1	1807.2
37.5°	3755.7	3762.2	3637.0	3461.7	3237.1	3065.8	3007.7	3008.5	3118.7	3126.8	1902.5
40°	4136.6	4153.6	4078.9	3960.5	3738.8	3471.0	3373.2	3364.3	3449.2	3439.1	2038.6
42.5°	4300.6	4316.4	4344.3	4385.5	4263.5	4042.5	3811.9	3824.0	3849.9	3779.2	2191.3
45°	4220.3	4245.3	4354.8	4609.2	4724.0	4649.6	4374.6	4332.1	4222.7	4148.8	2344.8
47.5°	3885.4	3946.4	4129.4	4553.1	4954.6	5205.8	5009.5	4953.4	4595.9	4418.6	2442.6
50°	3334.8	3338.5	3593.4	4135.0	4835.0	5556.9	5657.8	5615.8	4943.7	4570.1	2491.8
52.5°	2417.5	2497.1	2730.6	3357.9	4317.2	5503.5	6071.1	6053.7	5302.4	4647.6	2562.9
54°	1837.9	1853.2	2060.8	2683.3	3722.2	5210.7	6096.5	6100.5	5480.5	4694.5	2604.9
55°	1506.7	1469.9	1688.0	2285.8	3316.3	4951.8	6013.3	6032.7	5560.5	4718.7	2636.0
57.5°	714.1	714.6	881.4	1205.7	2077.0	3845.0	5504.7	5573.4	5569.4	4760.3	2731.8
60°	361.5	363.9	400.7	556.6	1026.0	2556.1	4551.5	4715.1	5140.8	4766.4	2763.3
62.5°	252.9	250.0	244.0	267.8	431.8	1299.0	3388.6	3530.7	4367.7	4535.7	2663.1
65°	216.5	210.4	193.5	189.8	218.1	517.4	2110.5	2342.4	3334.8	3927.4	2377.9
67.5°	185.0	182.6	167.2	157.9	154.3	225.4	1089.0	1211.0	2279.4	2823.1	1801.1
70°	157.1	155.9	146.6	134.9	124.8	134.9	403.9	500.5	1270.4	1520.0	849.9
72.5°	127.6	128.9	130.5	115.5	105.0	95.7	172.5	200.8	531.6	543.3	297.3
75°	111.9	110.7	110.7	100.6	87.7	71.1	94.9	102.2	162.8	151.1	69.1
77.5°	78.8	75.9	88.9	82.8	73.1	50.5	54.1	57.4	67.5	57.8	32.3
80°	54.5	54.5	57.0	74.3	65.8	36.8	33.1	35.5	40.0	34.3	18.6
82.5°	30.7	31.5	37.2	39.6	38.4	24.6	21.8	22.2	26.7	23.4	11.7
85°	3.6	6.1	21.4	21.0	15.8	10.9	12.1	12.5	16.6	14.5	6.9
87.5°	0.4	0.8	4.4	5.7	4.0	4.4	4.4	4.4	5.7	6.5	4.8
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°	1330.1	1330.1	1330.1	1330.1	1330.1	1330.1	1330.1	1330.1	1330.1	1330.1	1330.1
2.5°	1335.4	1304.7	1231.6	1146.8	1092.6	1004.6	930.2	876.5	863.2	837.3	845.0
5°	1333.8	1270.0	1120.9	963.4	795.3	670.1	576.8	503.3	471.0	449.6	434.6
7.5°	1334.6	1234.8	995.7	744.8	544.1	421.3	334.9	290.0	260.1	247.6	249.2
10°	1337.0	1195.2	850.3	551.8	367.2	272.2	219.3	197.9	187.8	186.2	185.8
12.5°	1342.7	1152.0	711.3	409.6	256.9	197.9	177.7	170.5	167.2	167.2	166.0
15°	1348.7	1104.3	595.8	304.6	197.9	170.1	160.8	157.1	155.1	155.1	154.7
17.5°	1348.7	1049.4	487.9	236.3	170.5	156.3	149.0	144.2	142.6	142.6	142.2
20°	1340.2	985.6	392.2	190.3	154.7	143.4	136.1	130.9	128.9	128.0	127.6
22.5°	1310.8	900.4	312.2	163.6	141.8	132.1	122.8	116.7	115.1	114.3	114.7
25°	1258.2	804.2	247.2	143.8	130.1	118.4	110.3	105.8	104.2	104.2	104.6
27.5°	1204.1	703.6	195.9	128.9	115.9	105.4	99.0	96.1	95.7	96.9	97.3
30°	1154.0	602.7	158.7	116.7	103.4	94.5	90.1	89.3	89.3	89.7	90.1
32.5°	1098.3	514.2	132.9	106.2	93.3	85.6	83.2	83.2	84.0	84.0	84.8
35°	1063.1	438.3	116.7	96.1	85.6	79.2	77.6	78.0	79.2	80.8	81.6
37.5°	1044.2	377.7	106.2	88.1	78.4	73.9	72.3	73.1	75.9	78.8	79.2
40°	1045.8	332.0	97.8	81.2	72.7	67.9	66.6	69.1	71.9	74.7	75.1
42.5°	1063.5	298.1	89.7	73.1	67.9	61.0	60.6	63.0	64.2	67.1	67.5
45°	1084.6	273.5	81.2	64.6	59.0	52.9	53.3	55.3	57.0	61.4	62.2
47.5°	1091.0	256.5	71.5	54.9	48.5	46.5	46.9	48.1	51.3	55.3	55.7
50°	1098.3	246.0	62.2	46.5	41.2	40.8	41.2	42.0	44.0	45.6	45.2
52.5°	1129.4	245.6	54.5	40.4	35.1	35.9	36.4	35.9	34.3	31.9	31.1
54°	1158.5	246.8	50.9	37.6	32.3	33.5	33.1	31.1	27.1	24.6	23.4
55°	1181.9	248.0	48.9	35.5	30.7	31.1	31.5	27.5	22.2	19.8	19.0
57.5°	1227.9	245.2	44.0	31.1	27.1	25.4	25.0	18.2	12.1	10.5	9.7
60°	1204.9	221.4	40.0	26.7	23.0	20.6	17.0	10.1	6.1	4.4	4.4
62.5°	1114.4	187.8	35.5	21.8	19.0	15.8	8.9	5.7	2.8	1.6	1.2
65°	996.9	157.9	31.9	17.4	14.9	10.1	4.8	3.6	1.2	0.0	0.0
67.5°	741.2	117.1	27.1	13.7	11.3	6.5	3.2	2.0	0.4	0.0	0.0
70°	343.3	71.5	23.0	10.5	8.1	4.8	2.4	1.2	0.0	0.0	0.0
72.5°	98.6	44.8	19.0	7.7	5.7	4.0	2.0	0.8	0.4	0.0	0.0
75°	34.3	35.9	14.1	5.7	4.4	2.8	1.6	0.8	0.4	0.0	0.0
77.5°	20.6	29.1	8.9	4.8	3.6	2.4	1.6	0.8	0.4	0.4	0.0
80°	11.7	19.4	5.7	4.0	3.2	2.0	1.2	0.8	0.4	0.4	0.0
82.5°	6.5	9.3	4.4	3.6	2.8	2.0	1.2	0.8	0.4	0.4	0.4
85°	5.3	4.8	3.6	3.2	2.4	1.6	1.2	0.4	0.0	0.0	0.0
87.5°	4.0	3.2	3.2	3.2	2.4	1.6	1.2	0.4	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)