

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: P450849

Luminaire Tested: **GALN-SA1C-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4150 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 57
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



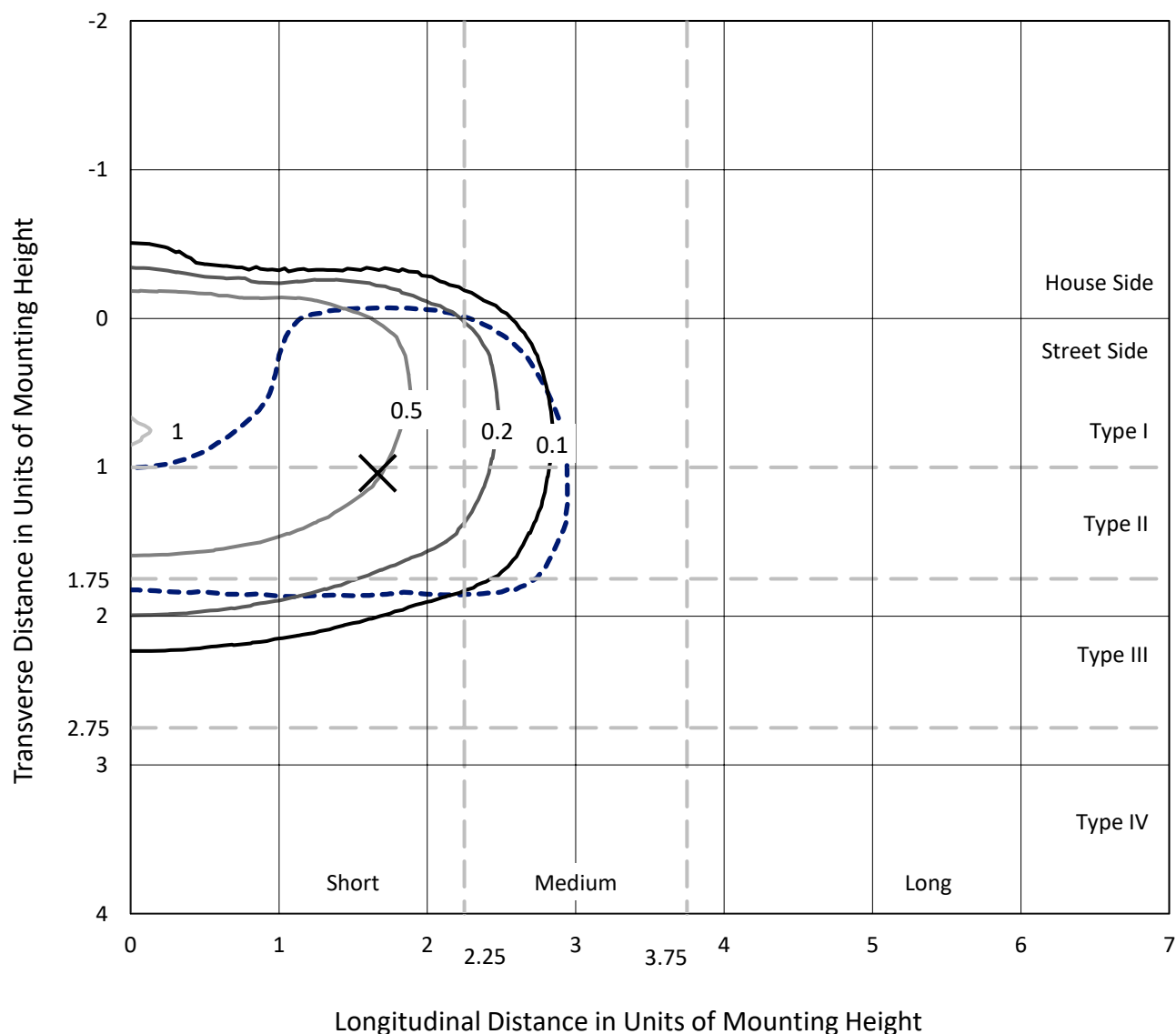
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

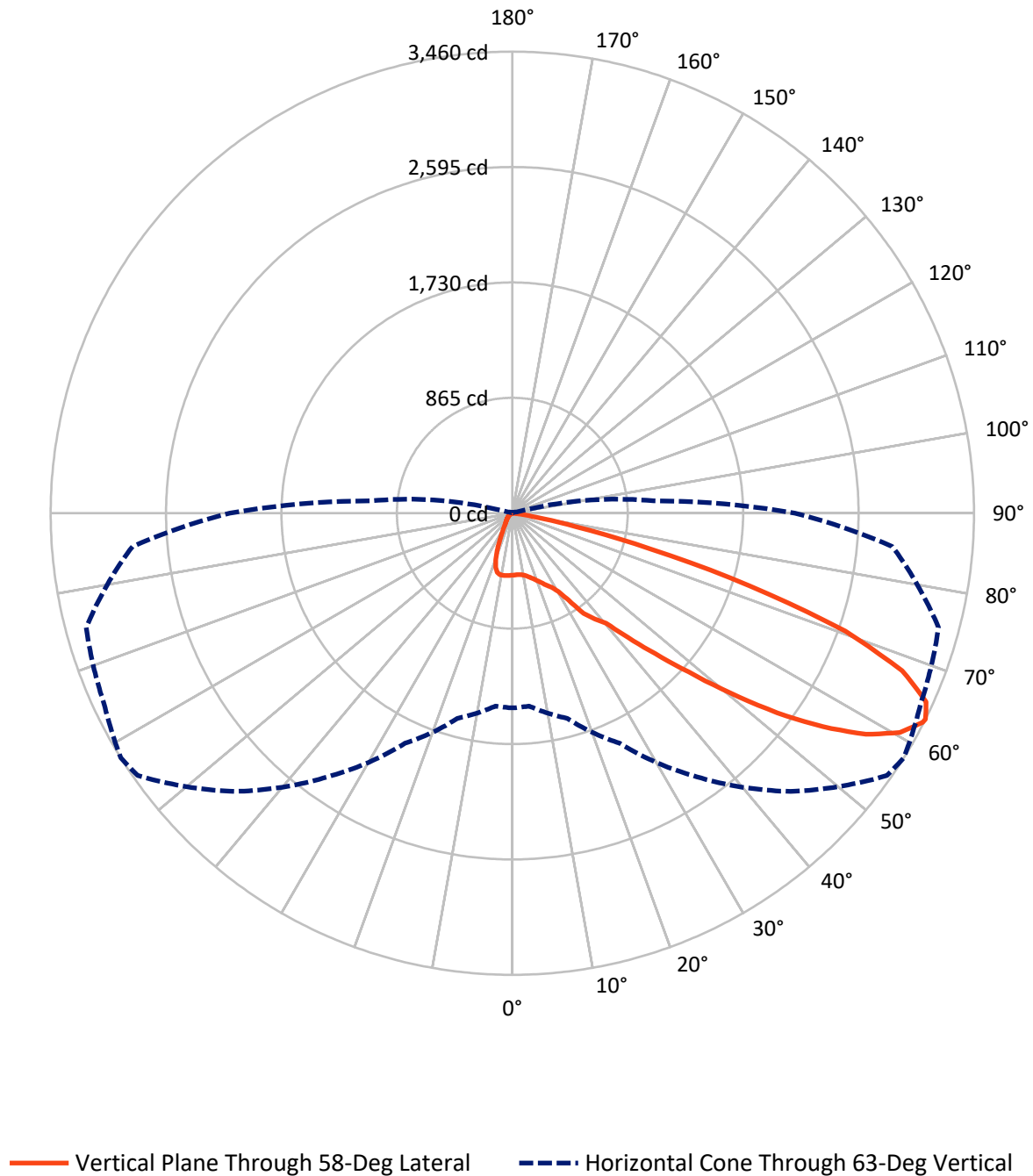


Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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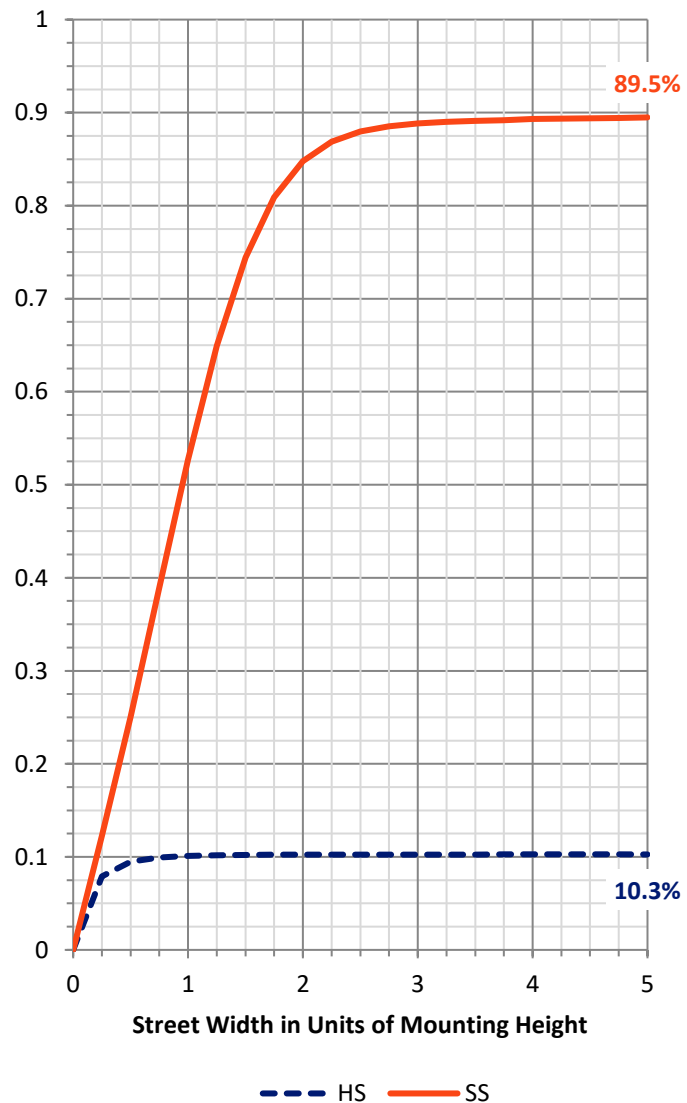
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	429.7	0.0	429.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	3720.3	0.0	3720.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	4150.0	0.0	4150.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	1.0
10°-20°	118.5	2.9
20°-30°	205.6	5.0
30°-40°	377.8	9.1
40°-50°	711.2	17.1
50°-60°	1216.5	29.3
60°-70°	1164.8	28.1
70°-80°	297.0	7.2
80°-90°	15.2	0.4
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°	4150.0	100.0
0°-180°	4150.0	100.0

Coefficient of Utilization



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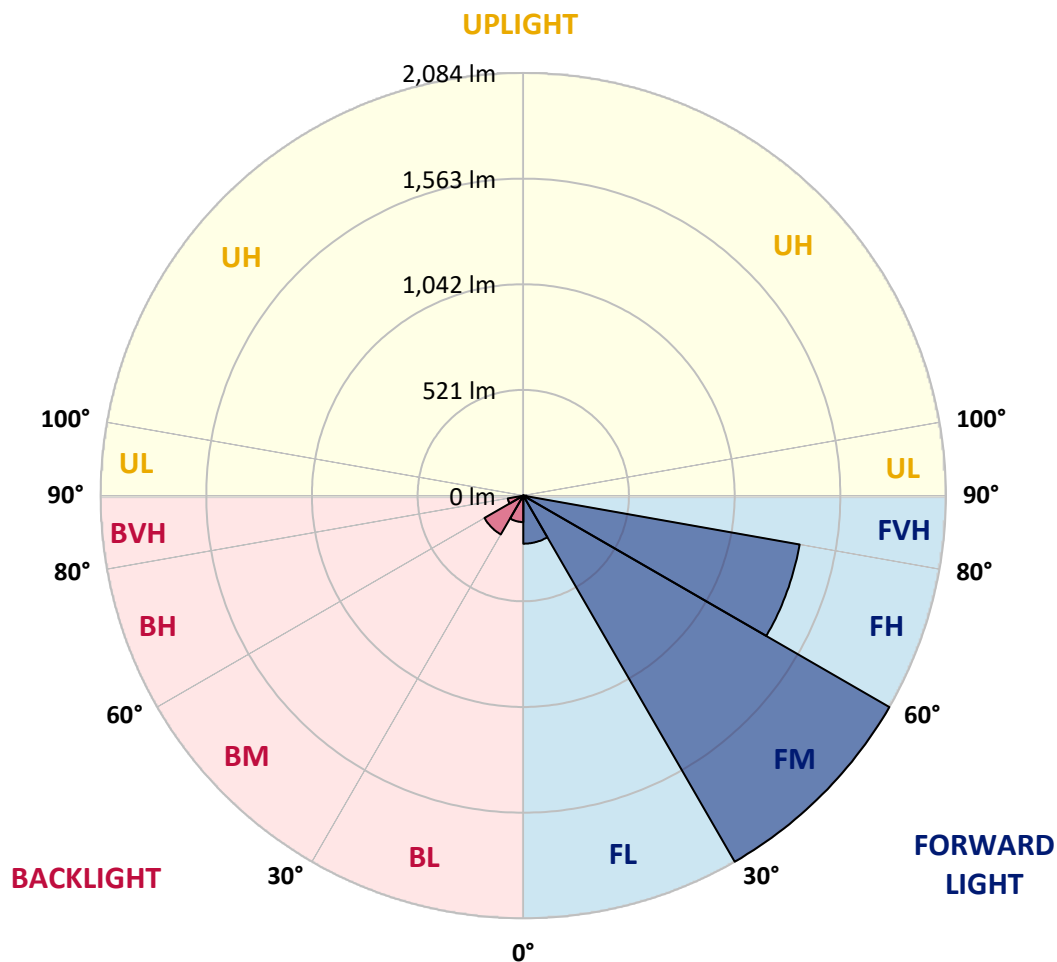
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	237.2	5.7			
FM	(30°-60°)	2084.5	50.2			
FH	(60°-80°)	1384.0	33.3			G1/1800
FVH	(80°-90°)	14.6	0.4			G1/100
BL	(0°-30°)	130.3	3.1	B1/500		
BM	(30°-60°)	221.0	5.3	B1/1000		
BH	(60°-80°)	77.8	1.9	B0/110		G0/110
BVH	(80°-90°)	0.6	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6
2.5°	453.0	454.6	456.2	456.8	459.0	461.2	462.7	462.4	464.9	466.2	466.2
5°	434.9	434.9	439.0	442.7	449.0	455.2	461.2	462.4	467.1	471.5	473.0
7.5°	419.6	420.6	423.7	430.6	439.0	449.9	461.8	464.6	472.7	482.4	486.5
10°	412.4	413.1	417.1	424.3	434.9	449.9	466.5	471.8	484.3	499.6	505.2
12.5°	410.9	411.8	415.9	424.0	436.2	454.3	476.8	482.4	500.5	520.2	528.7
15°	413.7	414.3	418.4	427.1	440.6	462.1	490.5	498.4	519.9	542.7	553.7
17.5°	423.7	423.1	425.9	433.1	448.0	471.8	507.1	516.5	541.8	573.0	580.2
20°	466.2	462.1	459.6	453.4	459.3	485.5	527.1	540.8	572.1	604.0	609.0
22.5°	557.7	548.7	530.8	506.5	487.7	504.3	551.2	567.1	607.4	638.6	638.6
25°	674.3	662.7	644.9	591.8	545.8	535.2	578.3	598.3	645.8	677.4	667.1
27.5°	820.2	811.1	776.4	714.6	644.3	589.3	609.9	628.3	679.9	718.0	696.4
30°	938.9	934.5	906.1	850.8	773.3	693.0	668.6	680.8	725.2	769.2	747.1
32.5°	1039.2	1039.2	1010.1	958.6	886.1	814.9	768.3	777.1	819.5	870.5	829.2
35°	1149.5	1145.7	1122.3	1073.3	992.0	929.2	910.2	922.0	960.5	998.3	896.7
37.5°	1265.4	1264.2	1239.8	1192.3	1126.1	1047.0	1002.3	1005.5	1025.1	1048.3	975.8
40°	1391.3	1393.2	1361.3	1332.0	1269.5	1188.5	1102.9	1083.3	1101.7	1167.0	1121.7
42.5°	1540.1	1535.7	1521.9	1481.9	1431.6	1383.2	1280.4	1273.2	1289.5	1359.5	1310.4
45°	1712.8	1719.1	1695.3	1673.2	1639.4	1599.1	1513.2	1500.7	1518.5	1627.2	1557.5
47.5°	1885.9	1880.0	1895.3	1891.2	1909.4	1879.4	1803.4	1777.8	1820.6	1923.7	1821.3
50°	2017.8	2024.3	2056.2	2102.8	2180.6	2197.4	2124.6	2115.9	2134.9	2201.2	2057.2
52.5°	2103.4	2125.3	2175.3	2294.9	2435.2	2544.3	2489.0	2484.3	2476.5	2494.3	2282.7
55°	2159.3	2181.5	2246.8	2423.0	2664.5	2841.7	2844.5	2824.5	2773.0	2760.2	2493.6
57.5°	2125.0	2129.3	2222.4	2458.0	2791.7	3053.9	3145.7	3125.7	3030.4	2982.0	2679.9
60°	1910.0	1919.0	2048.7	2325.5	2736.4	3123.2	3345.4	3336.3	3232.0	3177.3	2824.8
62.5°	1529.1	1555.4	1688.8	1997.5	2479.3	3006.4	3426.3	3451.9	3370.7	3295.4	2870.4
63°	1459.1	1450.7	1591.6	1901.9	2411.2	2948.6	3427.5	3460.0	3376.9	3306.6	2858.0
65°	1080.1	1105.4	1197.0	1499.7	2006.5	2679.5	3350.4	3407.9	3353.8	3256.9	2719.5
67.5°	606.5	605.2	706.4	981.4	1404.4	2101.8	3029.5	3151.0	3139.8	2922.6	2254.3
70°	296.8	301.5	343.1	508.7	814.5	1450.1	2517.4	2648.6	2652.7	2295.5	1558.8
72.5°	134.4	136.5	166.2	247.8	418.7	772.1	1734.7	1860.0	1836.9	1462.9	860.8
75°	70.9	75.6	91.5	124.7	201.8	318.4	943.6	1064.8	1016.4	668.3	316.8
77.5°	52.5	54.1	62.2	79.4	108.1	124.0	407.1	484.3	453.7	241.8	105.0
80°	38.4	39.7	46.2	56.2	68.1	63.1	153.4	175.9	157.8	82.2	32.2
82.5°	23.4	23.7	33.7	41.9	42.8	35.3	50.6	54.4	56.9	46.2	17.5
85°	8.4	10.6	22.8	30.3	25.3	17.8	21.2	23.4	25.6	29.4	10.3
87.5°	0.9	1.2	10.9	14.7	7.2	6.6	7.8	8.7	9.4	10.9	5.0
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°	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6
2.5°	467.4	468.7	467.7	466.2	465.9	464.9	463.0	463.0	463.0	463.7	463.0
5°	474.3	475.2	473.0	469.9	466.5	462.1	457.4	454.6	454.3	453.7	452.1
7.5°	487.4	488.7	483.7	476.2	466.8	456.2	446.2	436.8	432.4	429.0	429.0
10°	506.5	507.7	497.7	484.3	465.5	444.0	420.2	398.7	381.8	374.0	372.1
12.5°	529.3	529.9	513.4	489.9	459.0	417.4	366.8	319.6	286.8	271.8	270.3
15°	554.3	549.9	528.0	492.1	440.2	362.8	275.3	217.5	183.4	173.4	177.2
17.5°	579.6	571.5	539.3	488.7	398.1	275.3	185.0	148.4	137.8	135.0	135.0
20°	603.3	592.1	547.4	473.7	324.9	189.7	137.2	128.4	126.5	124.7	125.0
22.5°	627.1	609.9	554.6	440.2	242.1	135.6	122.8	120.0	117.5	115.0	114.7
25°	650.2	626.5	557.4	378.4	165.0	116.5	112.2	108.4	103.4	100.6	100.0
27.5°	674.3	646.5	555.5	300.3	120.3	104.4	100.0	94.7	88.7	83.7	83.7
30°	720.5	684.6	549.0	215.9	101.2	91.9	86.2	77.8	71.2	66.2	65.9
32.5°	783.6	734.3	526.5	151.8	90.0	80.9	72.5	63.1	56.2	52.5	52.5
35°	839.9	784.2	484.3	111.9	80.9	70.3	60.0	50.9	45.6	43.1	42.2
37.5°	925.5	857.4	426.2	90.9	72.2	60.9	50.3	41.9	37.5	35.6	35.6
40°	1053.9	946.7	354.9	79.7	63.7	51.9	41.9	35.3	31.9	29.7	29.7
42.5°	1213.2	1056.1	282.8	71.6	55.9	44.7	35.0	30.0	26.9	25.3	25.0
45°	1413.8	1171.4	217.8	64.1	49.7	38.1	29.7	25.3	22.2	21.2	21.6
47.5°	1623.2	1272.9	168.7	57.5	43.1	32.2	25.3	21.9	19.7	18.4	18.4
50°	1801.9	1342.9	128.1	50.0	38.1	27.2	22.2	19.7	17.8	17.2	16.9
52.5°	1951.2	1363.2	98.1	43.4	33.4	23.4	19.7	17.8	16.2	15.3	15.3
55°	2078.4	1345.4	76.9	36.6	28.1	20.3	17.5	15.9	14.1	13.1	12.8
57.5°	2152.8	1288.2	58.7	30.3	22.8	16.9	15.3	13.4	11.2	9.7	9.7
60°	2190.3	1205.1	45.0	25.0	17.5	13.4	12.5	10.0	7.8	6.6	6.2
62.5°	2145.3	1094.8	34.1	19.7	13.1	10.0	8.4	7.2	5.0	3.7	3.7
63°	2117.5	1062.9	32.8	18.7	12.2	9.4	7.8	6.6	4.4	3.4	3.1
65°	1930.3	923.9	26.9	15.0	9.7	6.6	5.3	4.7	3.1	1.6	1.2
67.5°	1532.9	706.8	21.2	11.2	6.9	4.7	3.1	2.8	0.9	0.0	0.0
70°	1036.4	456.5	16.6	8.1	4.7	2.8	1.6	1.2	0.3	0.0	0.0
72.5°	540.5	234.0	12.8	5.9	2.8	1.9	0.9	0.3	0.0	0.0	0.0
75°	191.2	79.7	9.4	3.7	1.9	0.9	0.3	0.0	0.0	0.0	0.0
77.5°	57.8	29.7	5.9	2.8	1.2	0.6	0.0	0.0	0.0	0.0	0.0
80°	20.3	10.9	3.4	1.9	0.9	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	10.0	5.3	2.2	1.6	0.9	0.3	0.0	0.0	0.0	0.0	0.0
85°	5.6	3.4	1.9	1.6	0.9	0.6	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	2.5	1.9	1.6	1.2	0.6	0.3	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)