

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: P453629

Luminaire Tested: **GALN-SA4C-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16521 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): 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

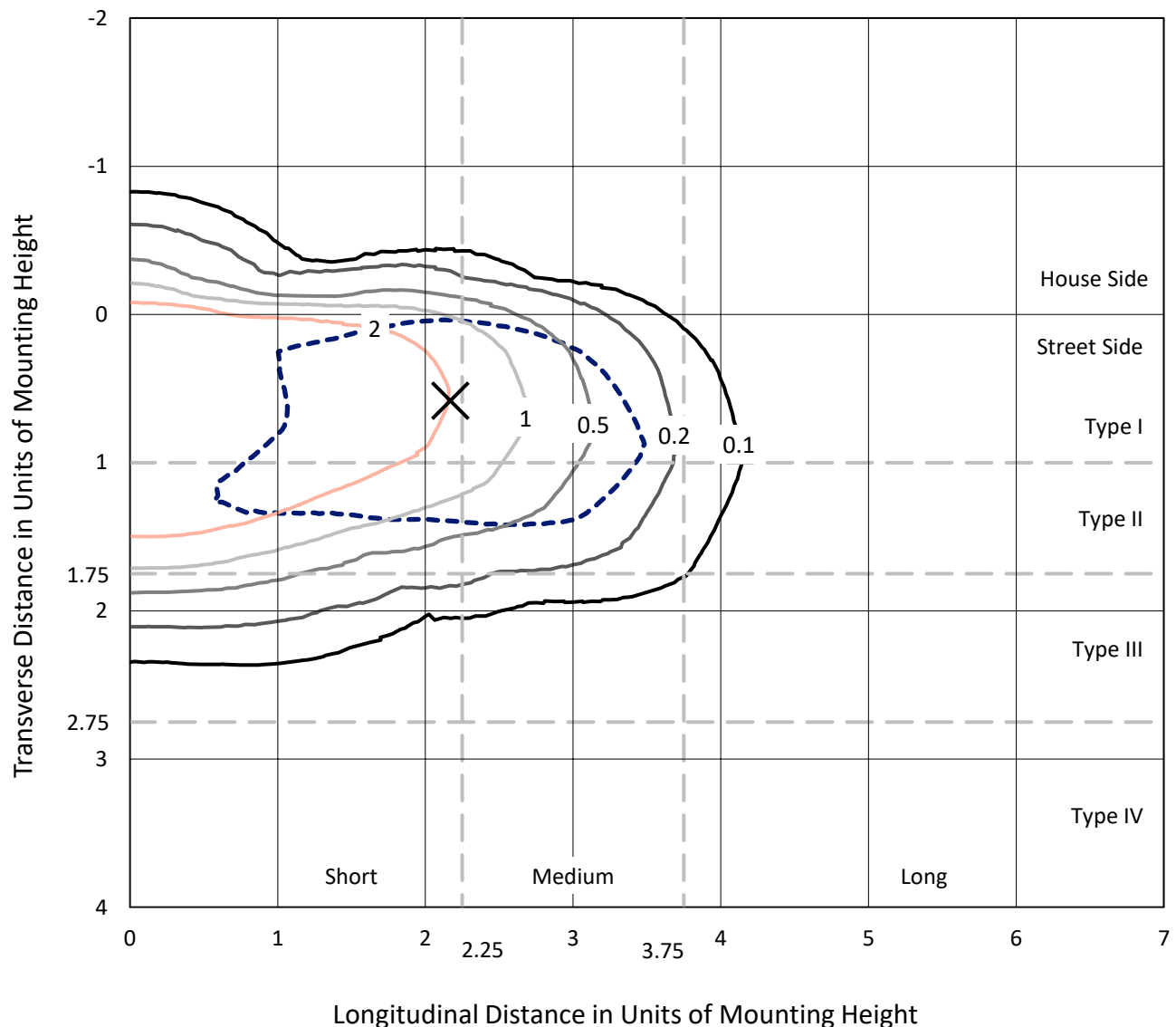


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

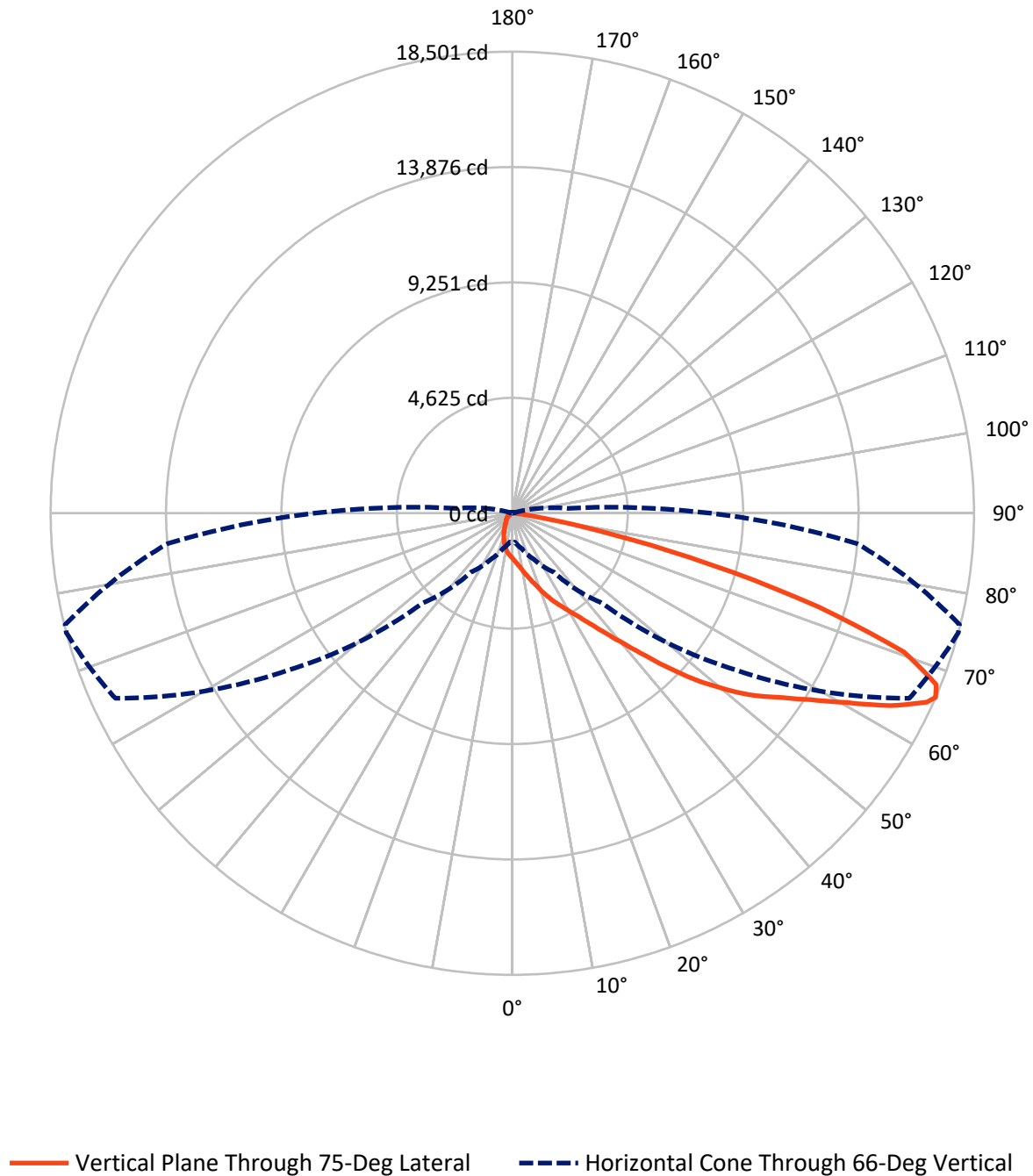


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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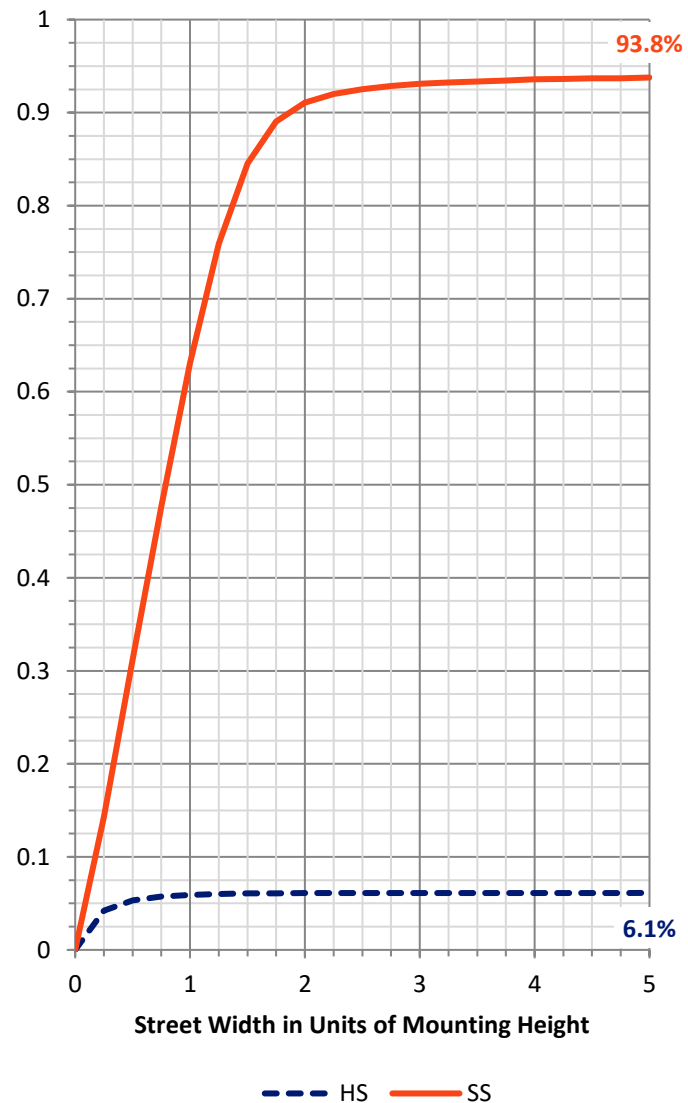
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1019.9	0.0	1019.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	15501.1	0.0	15501.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	16521.0	0.0	16521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.3	1.1
10°-20°	512.9	3.1
20°-30°	885.6	5.4
30°-40°	1597.4	9.7
40°-50°	2885.8	17.5
50°-60°	4499.0	27.2
60°-70°	4273.9	25.9
70°-80°	1601.7	9.7
80°-90°	90.4	0.5
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°	16521.0	100.0
0°-180°	16521.0	100.0

Coefficient of Utilization



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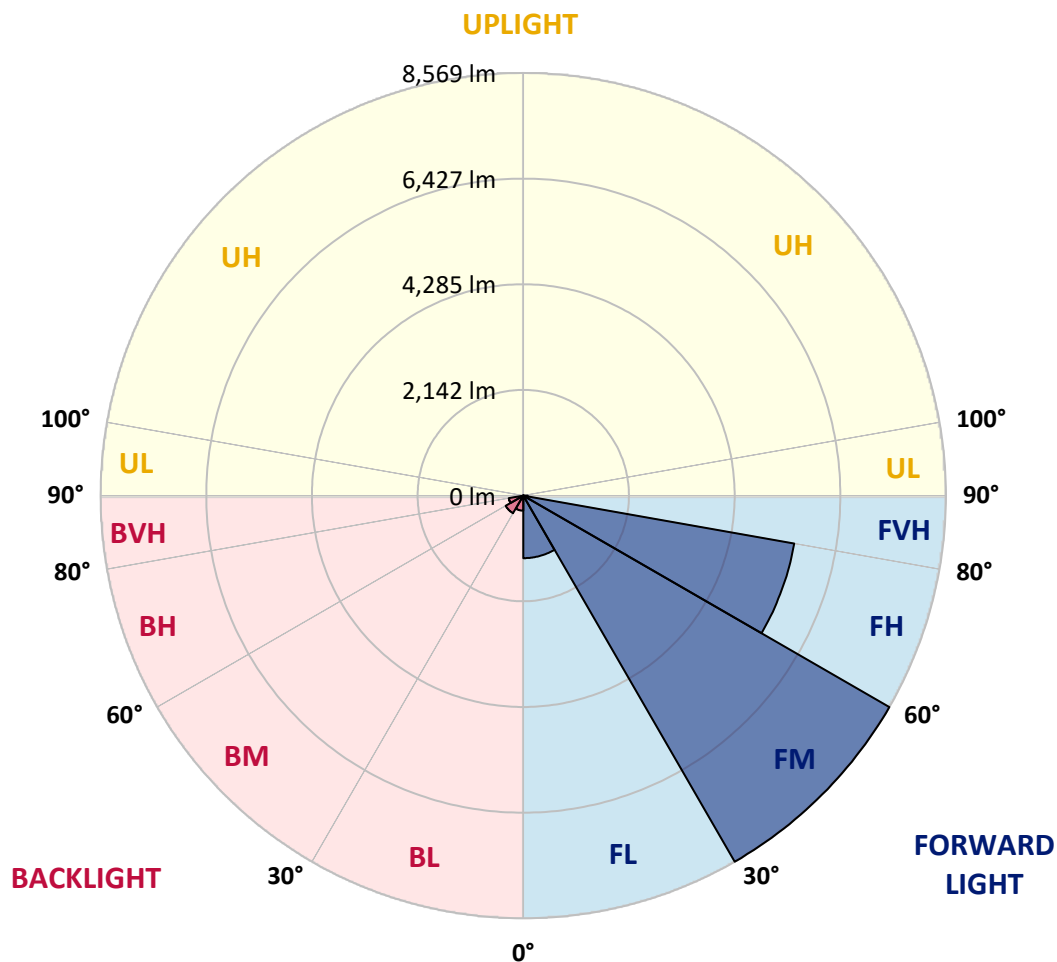
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1268.1	7.7			
FM	(30°-60°)	8569.4	51.9			
FH	(60°-80°)	5577.8	33.8			G3/7500
FVH	(80°-90°)	85.7	0.5			G1/100
BL	(0°-30°)	304.6	1.8	B1/500		
BM	(30°-60°)	412.8	2.5	B1/1000		
BH	(60°-80°)	297.8	1.8	B1/500		G1/500
BVH	(80°-90°)	4.7	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7
2.5°	2158.6	2131.7	2140.2	2128.0	2099.9	2058.4	2021.7	1969.2	1916.7	1908.1	1849.5
5°	2443.2	2435.9	2426.1	2390.7	2371.1	2307.6	2231.8	2141.5	2032.7	2013.2	1906.9
7.5°	2637.4	2633.8	2638.6	2620.3	2603.2	2545.8	2465.2	2341.8	2173.2	2162.2	1985.1
10°	2700.9	2710.7	2729.0	2758.4	2785.2	2766.9	2705.8	2551.9	2355.2	2323.5	2074.3
12.5°	2664.3	2675.3	2719.3	2797.4	2884.2	2934.3	2909.8	2797.4	2548.2	2522.6	2174.4
15°	2570.2	2583.7	2646.0	2766.9	2922.0	3063.8	3124.8	3044.2	2773.0	2731.5	2295.4
17.5°	2431.0	2450.5	2539.7	2699.7	2912.3	3156.6	3328.8	3302.0	3012.4	2973.4	2427.3
20°	2325.9	2340.6	2416.3	2599.5	2870.7	3207.9	3523.1	3598.8	3308.1	3240.9	2582.4
22.5°	2395.5	2400.4	2426.1	2536.0	2796.2	3221.3	3694.1	3907.9	3622.0	3562.2	2743.7
25°	2736.4	2687.5	2661.8	2637.4	2780.3	3209.1	3849.2	4230.4	3934.7	3871.2	2903.7
27.5°	3273.9	3251.9	3122.4	2948.9	2915.9	3225.0	3951.9	4535.8	4229.2	4160.7	3060.1
30°	3859.0	3821.1	3741.7	3487.6	3232.3	3337.4	4026.4	4832.6	4577.3	4486.9	3203.0
32.5°	4396.5	4420.9	4302.4	4041.0	3745.4	3576.8	4122.9	5156.3	4976.8	4864.4	3369.2
35°	5023.2	5072.1	4890.0	4639.6	4293.9	4009.3	4311.0	5521.6	5483.7	5342.0	3625.7
37.5°	5659.6	5689.0	5577.8	5226.0	4914.5	4559.0	4665.3	5972.4	6108.0	5987.0	3932.3
40°	6194.7	6235.0	6153.2	5840.4	5508.2	5195.4	5179.6	6463.4	6850.7	6726.1	4389.2
42.5°	6603.9	6634.5	6636.9	6415.8	6116.5	5974.8	5835.5	7090.1	7781.5	7637.4	4919.4
45°	7120.7	7164.6	7139.0	6988.7	6765.2	6739.5	6667.4	7847.5	8895.6	8713.6	5607.1
47.5°	7919.6	7948.9	7885.4	7708.2	7481.0	7521.3	7478.6	8696.5	10031.7	9875.4	6319.3
50°	8474.2	8523.0	8613.4	8684.3	8519.4	8370.3	8243.3	9489.3	11110.4	10969.9	7047.4
52.5°	8468.1	8548.7	8834.6	9191.3	9551.6	9506.4	9141.2	10365.2	12140.2	11966.7	7731.5
55°	7897.6	8054.0	8474.2	9107.0	10105.0	10602.2	10436.1	11379.1	13029.5	12912.2	8524.3
57.5°	6720.0	6815.3	7399.2	8283.6	9795.9	11117.7	11936.2	12753.4	14096.0	14041.0	9755.6
60°	4519.9	4562.6	5313.9	6407.3	8339.8	10603.4	13035.6	14416.0	15409.2	15382.3	11193.4
62.5°	2589.8	2608.1	3152.9	4075.2	5934.5	8986.0	13128.4	16467.1	16983.8	16998.5	12857.3
65°	1393.8	1403.6	1843.4	2391.9	3611.0	6404.8	11805.5	17590.9	18256.7	18284.8	13888.3
66°	1203.3	1156.8	1467.1	2038.8	2873.2	5097.7	10968.7	17550.6	18501.0	18470.5	13851.6
67.5°	915.0	956.5	1171.5	1567.3	2129.2	3624.5	9055.7	16770.0	18315.3	18220.0	13288.5
70°	654.8	671.9	834.3	1117.8	1450.0	1988.8	5786.7	13928.6	16646.6	16518.4	11577.0
72.5°	422.7	441.0	591.3	808.7	1048.1	1086.0	3239.7	10063.5	12834.0	12815.7	8718.5
75°	301.7	318.8	390.9	579.0	787.9	671.9	1560.0	6782.3	8159.0	8104.0	5393.3
77.5°	218.7	227.2	261.4	378.7	563.2	481.3	723.2	3622.0	4061.8	4253.6	2383.3
80°	125.8	133.2	182.0	230.9	381.1	328.6	345.7	1453.7	1498.9	1426.8	745.2
82.5°	62.3	70.9	108.7	157.6	238.2	221.1	158.8	437.3	461.8	449.5	188.1
85°	14.7	18.3	61.1	103.8	116.1	98.9	77.0	128.3	158.8	155.1	72.1
87.5°	1.2	2.4	22.0	18.3	19.5	33.0	26.9	33.0	51.3	47.6	25.7
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°	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7
2.5°	1822.6	1799.4	1732.2	1666.3	1611.3	1553.9	1501.3	1470.8	1458.6	1445.1	1451.3
5°	1848.3	1792.1	1656.5	1539.2	1424.4	1326.6	1248.5	1198.4	1173.9	1170.3	1164.2
7.5°	1882.5	1786.0	1575.9	1392.6	1242.4	1133.6	1044.5	972.4	950.4	930.9	915.0
10°	1924.0	1775.0	1475.7	1238.7	1078.7	941.8	824.6	739.1	695.1	682.9	691.4
12.5°	1968.0	1754.2	1370.6	1097.0	912.5	737.8	629.1	586.4	574.1	569.3	570.5
15°	2012.0	1728.6	1260.7	960.2	726.8	588.8	538.7	527.7	522.8	520.4	518.0
17.5°	2052.3	1687.0	1137.3	827.0	588.8	503.3	485.0	475.2	465.4	461.8	455.7
20°	2099.9	1639.4	1026.1	678.0	498.4	455.7	433.7	415.3	400.7	390.9	389.7
22.5°	2145.1	1578.3	910.1	561.9	454.4	409.2	373.8	354.3	337.2	324.9	328.6
25°	2169.5	1503.8	806.3	489.9	414.1	362.8	323.7	299.3	281.0	274.9	273.6
27.5°	2169.5	1412.2	704.9	448.3	377.5	321.3	281.0	257.8	245.5	237.0	238.2
30°	2152.4	1310.8	610.8	416.6	345.7	284.6	246.8	226.0	216.2	210.1	208.9
32.5°	2139.0	1214.3	530.2	386.0	312.7	252.9	219.9	204.0	194.2	188.1	188.1
35°	2159.8	1131.2	467.9	355.5	282.2	228.4	199.1	184.5	174.7	169.8	168.6
37.5°	2214.7	1055.5	420.2	322.5	254.1	207.7	184.5	167.4	157.6	151.5	149.0
40°	2350.3	1012.7	384.8	292.0	227.2	190.6	167.4	151.5	139.3	133.2	131.9
42.5°	2567.8	1013.9	350.6	263.9	206.4	175.9	152.7	134.4	120.9	114.8	113.6
45°	2895.2	1060.3	323.7	237.0	188.1	160.0	136.8	117.3	105.1	98.9	98.9
47.5°	3287.3	1150.7	300.5	213.8	171.0	145.4	120.9	101.4	89.2	84.3	84.3
50°	3712.4	1268.0	277.3	189.3	156.4	129.5	103.8	88.0	78.2	74.5	74.5
52.5°	4146.1	1409.7	254.1	169.8	140.5	112.4	89.2	78.2	69.6	67.2	66.0
55°	4715.3	1590.5	229.7	149.0	123.4	96.5	79.4	68.4	58.6	55.0	53.8
57.5°	5591.2	1862.9	202.8	130.7	101.4	80.6	68.4	57.4	46.4	40.3	39.1
60°	6647.9	2195.2	174.7	114.8	81.8	66.0	55.0	44.0	34.2	26.9	25.7
62.5°	7637.4	2406.5	147.8	96.5	64.7	50.1	39.1	33.0	24.4	17.1	15.9
65°	8074.7	2335.7	122.2	78.2	51.3	35.4	25.7	23.2	14.7	7.3	6.1
66°	7929.4	2230.6	112.4	70.9	46.4	30.5	22.0	19.5	11.0	3.7	3.7
67.5°	7500.6	1982.6	97.7	61.1	40.3	24.4	17.1	14.7	6.1	1.2	0.0
70°	6426.8	1604.0	77.0	45.2	29.3	17.1	9.8	7.3	3.7	0.0	0.0
72.5°	4936.5	1194.7	61.1	34.2	20.8	9.8	4.9	2.4	3.7	0.0	0.0
75°	3024.7	682.9	47.6	25.7	13.4	6.1	3.7	0.0	3.7	1.2	0.0
77.5°	1342.5	306.6	31.8	17.1	9.8	4.9	2.4	0.0	2.4	1.2	0.0
80°	339.6	100.2	18.3	12.2	7.3	3.7	1.2	0.0	2.4	2.4	1.2
82.5°	92.8	36.6	13.4	9.8	6.1	3.7	1.2	0.0	2.4	2.4	2.4
85°	36.6	17.1	12.2	9.8	7.3	3.7	1.2	0.0	2.4	2.4	2.4
87.5°	17.1	12.2	12.2	11.0	8.6	3.7	1.2	0.0	2.4	1.2	2.4
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)