

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: P453637

Luminaire Tested: **GALN-SA4C-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
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-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15914 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 213
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

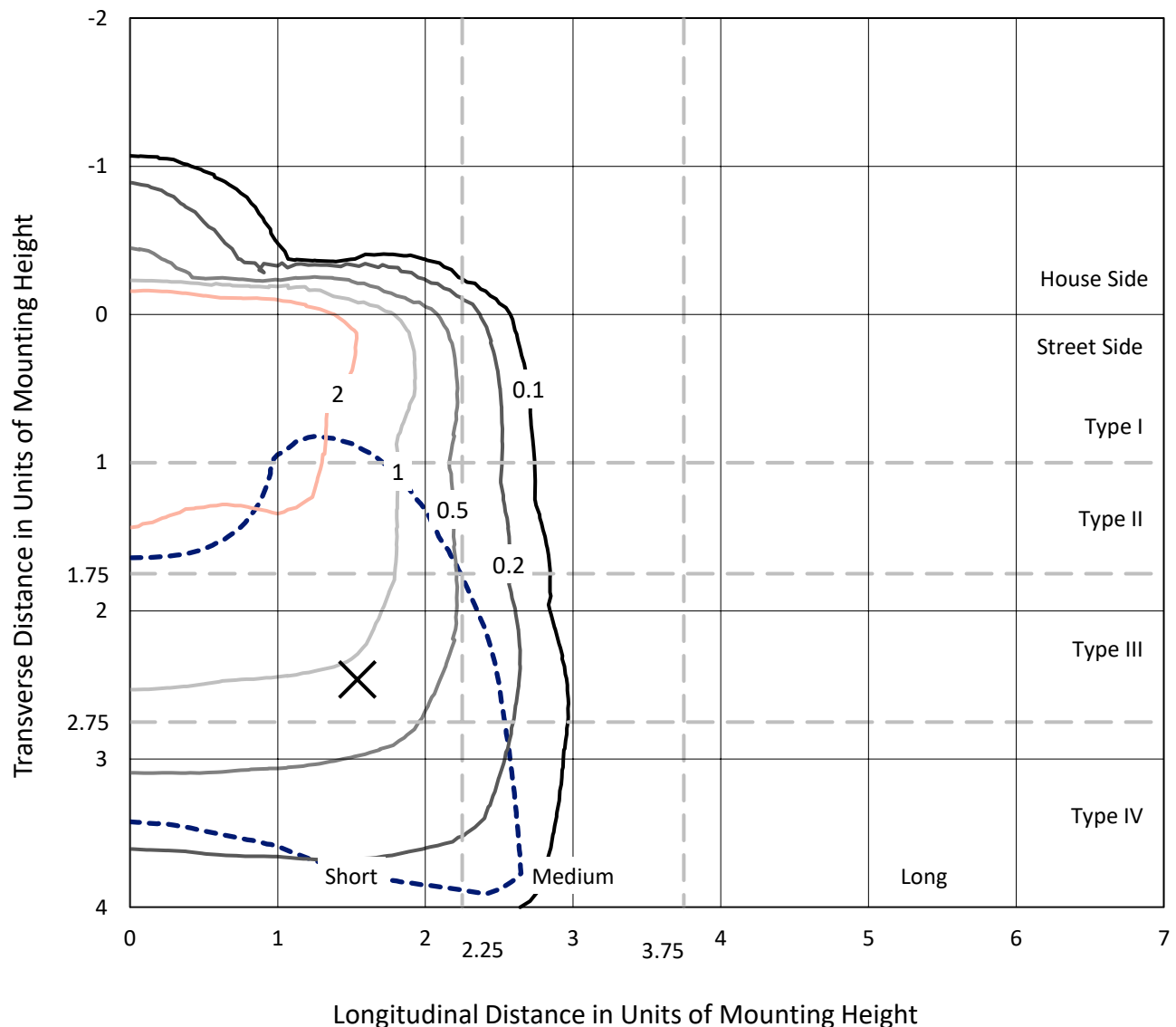


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Iso-Footcandle Lines of Horizontal Illumination

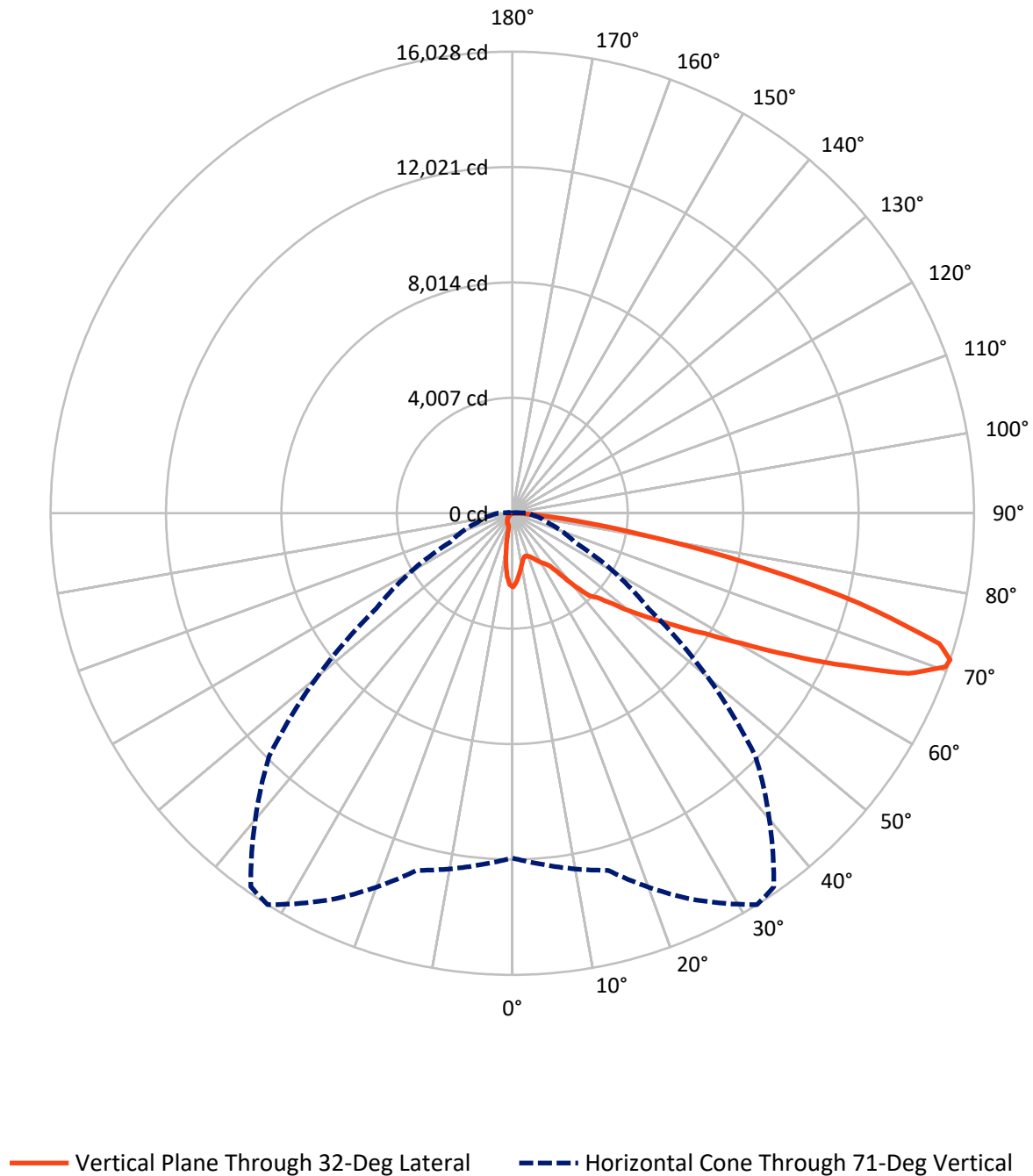
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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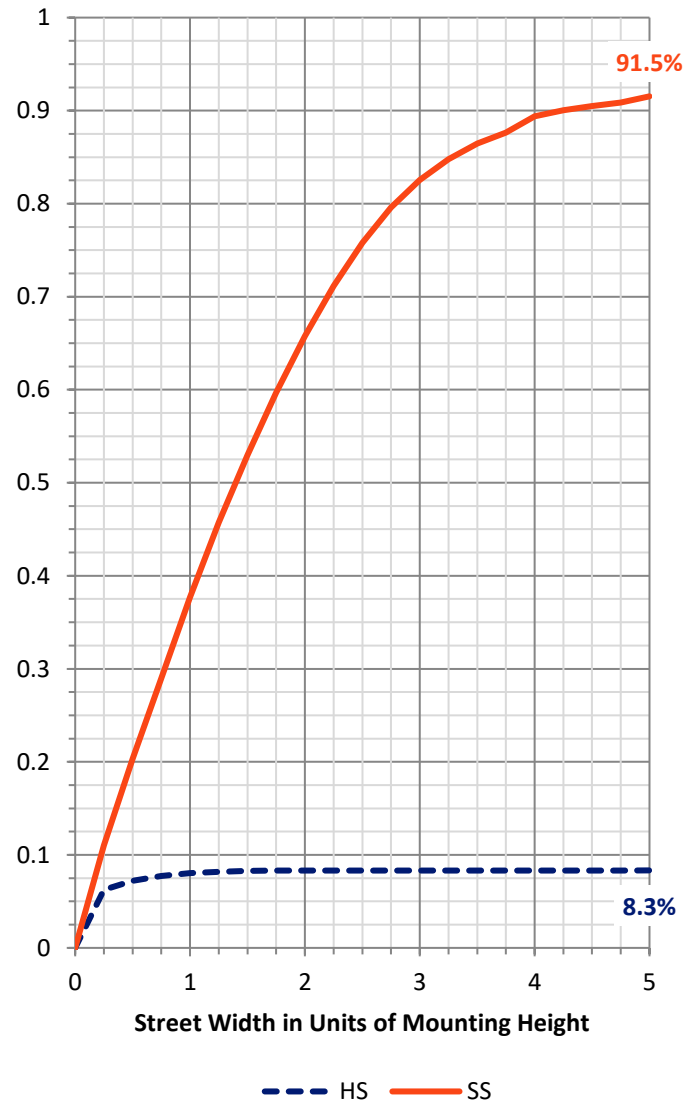
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1333.0	0.0	1333.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	14581.0	0.0	14581.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	15914.0	0.0	15914.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.1	1.3
10°-20°	451.6	2.8
20°-30°	702.6	4.4
30°-40°	1170.6	7.4
40°-50°	2177.4	13.7
50°-60°	3495.9	22.0
60°-70°	4702.2	29.5
70°-80°	2789.9	17.5
80°-90°	215.6	1.4
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°	15914.0	100.0
0°-180°	15914.0	100.0

Coefficient of Utilization



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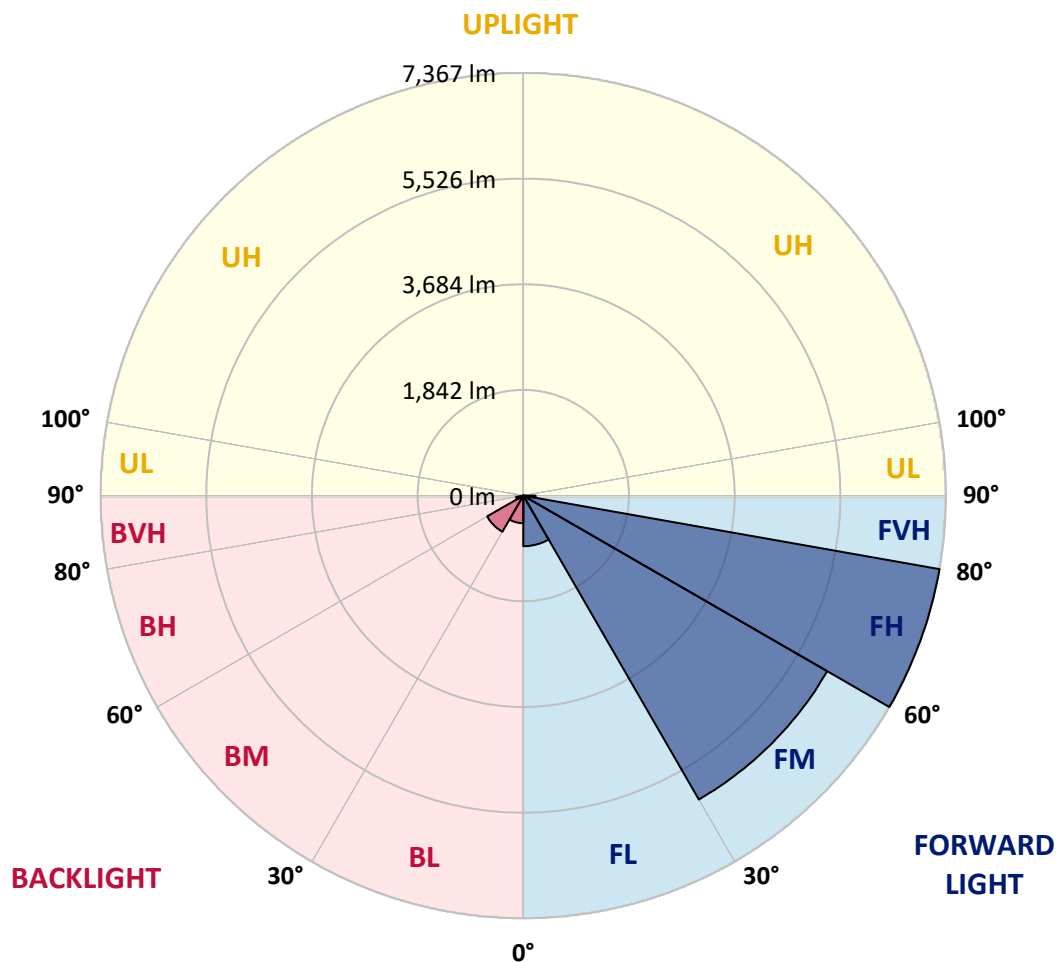
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	882.1	5.5			
FM	(30°-60°)	6116.7	38.4			
FH	(60°-80°)	7367.4	46.3			G3/7500
FVH	(80°-90°)	214.8	1.3			G2/225
BL	(0°-30°)	480.3	3.0	B1/500		
BM	(30°-60°)	727.2	4.6	B1/1000		
BH	(60°-80°)	124.7	0.8	B1/500		G1/500
BVH	(80°-90°)	0.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2
2.5°	2373.5	2398.0	2394.3	2402.9	2423.6	2432.2	2455.4	2481.0	2516.5	2540.9	2556.8
5°	2125.6	2143.9	2146.3	2189.1	2209.8	2233.1	2301.5	2376.0	2459.0	2525.0	2569.0
7.5°	1860.5	1870.2	1889.8	1946.0	1998.5	2021.7	2125.6	2255.0	2385.8	2509.1	2588.5
10°	1641.8	1652.8	1688.2	1748.1	1797.0	1827.5	1971.6	2134.1	2317.3	2500.6	2616.6
12.5°	1517.2	1523.3	1536.8	1590.5	1652.8	1685.8	1840.9	2026.6	2262.4	2504.2	2664.3
15°	1508.7	1506.2	1490.3	1512.3	1568.5	1602.7	1754.2	1953.3	2213.5	2516.5	2720.5
17.5°	1553.9	1547.7	1509.9	1509.9	1556.3	1584.4	1717.5	1914.2	2189.1	2544.6	2799.9
20°	1623.5	1613.7	1551.4	1546.5	1591.7	1621.0	1739.5	1916.7	2194.0	2597.1	2906.1
22.5°	1711.4	1700.4	1606.4	1608.8	1657.7	1687.0	1803.1	1960.6	2224.5	2661.8	3019.8
25°	1826.3	1814.1	1702.9	1698.0	1749.3	1775.0	1897.1	2038.8	2267.3	2742.5	3168.8
27.5°	1979.0	1953.3	1820.2	1812.8	1867.8	1900.8	2010.7	2143.9	2343.0	2853.6	3369.1
30°	2104.8	2076.7	1949.6	1930.1	1988.7	2014.4	2128.0	2285.6	2492.0	3047.9	3646.4
32.5°	2269.7	2228.2	2079.1	2027.8	2090.1	2123.1	2297.8	2549.4	2713.1	3253.1	3976.3
35°	2641.1	2615.4	2433.4	2253.8	2250.2	2291.7	2548.2	2815.8	2940.4	3573.1	4425.8
37.5°	3172.5	3154.1	2961.1	2720.5	2650.8	2631.3	2852.4	3108.9	3303.2	4012.9	4948.6
40°	3789.4	3746.6	3569.5	3365.5	3275.1	3217.7	3211.5	3545.0	3777.1	4610.3	5493.5
42.5°	4231.6	4153.4	3938.4	3923.7	3904.2	3844.3	3670.9	4182.7	4389.2	5252.8	6076.2
45°	4695.8	4577.3	4257.2	4202.3	4194.9	4191.3	4364.7	4937.6	5056.1	5949.1	6674.7
47.5°	5056.1	4962.1	4699.4	4675.0	4705.5	4788.6	5282.1	5739.0	5714.6	6569.7	7176.8
50°	5536.2	5465.4	5173.4	5219.8	5377.4	5513.0	6316.8	6612.4	6255.7	7058.3	7542.1
52.5°	6103.0	5972.3	5701.1	5827.0	6068.8	6294.8	7415.0	7377.1	6635.6	7426.0	7814.5
55°	6594.1	6501.3	6408.4	6539.1	6900.7	7182.9	8406.9	7950.1	6911.7	7721.6	7934.2
57.5°	7424.8	7402.8	7307.5	7440.7	7879.2	8172.4	9295.0	8394.7	7088.9	7875.6	7793.7
60°	8653.7	8618.3	8441.1	8610.9	9182.7	9643.2	10113.5	8794.2	7129.2	7815.7	7389.4
62.5°	10131.8	10010.9	9859.4	10109.8	10894.1	11096.9	10884.3	9031.2	6978.9	7339.3	6414.5
65°	11512.2	11387.6	11391.3	11919.0	12772.9	12910.9	11783.4	8995.7	6539.1	6145.8	4731.2
67.5°	12568.9	12548.1	12697.2	13726.9	14843.5	14748.2	12587.2	8465.6	5235.7	3983.6	2514.0
70°	12622.6	12662.9	13090.5	14828.8	15962.4	15811.0	12518.8	6881.2	3264.1	1832.4	990.7
71°	11972.8	12243.9	12835.2	14794.6	16028.4	15831.7	11942.2	5763.4	2394.3	1277.8	714.6
72.5°	10202.7	10345.6	11623.4	13923.6	15506.8	15086.6	10480.0	4039.8	1533.1	781.8	410.5
75°	5619.3	5971.1	7783.9	10923.4	12402.7	12033.8	6829.9	1919.1	764.7	427.6	169.8
77.5°	2675.3	2606.9	3797.9	6496.4	8409.4	8389.8	3441.2	852.7	445.9	289.5	85.5
80°	764.7	860.0	1453.7	3088.2	4668.9	4720.2	1321.8	411.7	309.1	226.0	44.0
82.5°	230.9	235.8	533.8	1365.7	2322.2	2189.1	496.0	210.1	222.3	179.6	25.7
85°	40.3	50.1	157.6	481.3	885.6	671.9	124.6	100.2	146.6	118.5	14.7
87.5°	2.4	3.7	52.5	55.0	78.2	45.2	22.0	14.7	31.8	31.8	8.6
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°	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2
2.5°	2567.8	2575.1	2570.2	2559.2	2540.9	2518.9	2489.6	2465.2	2444.4	2433.4	2446.8
5°	2583.7	2593.4	2569.0	2514.0	2431.0	2340.6	2237.9	2158.5	2096.2	2076.7	2069.4
7.5°	2608.1	2614.2	2548.2	2426.1	2250.2	2036.4	1849.5	1691.9	1569.7	1533.1	1479.3
10°	2639.8	2636.2	2511.6	2284.4	1975.3	1654.0	1364.5	1149.5	987.0	928.4	923.5
12.5°	2688.7	2669.2	2465.2	2091.4	1647.9	1227.7	869.8	680.4	577.8	543.6	536.3
15°	2749.8	2703.4	2391.9	1865.4	1261.9	792.8	536.3	478.9	465.4	463.0	460.5
17.5°	2821.9	2748.6	2295.4	1588.1	886.9	514.3	448.3	447.1	448.3	445.9	444.7
20°	2919.6	2796.2	2180.5	1259.5	586.4	433.7	427.6	427.6	428.8	427.6	427.6
22.5°	3023.4	2852.4	2038.8	961.4	442.2	411.7	410.5	412.9	415.3	414.1	414.1
25°	3151.7	2925.7	1851.9	658.4	395.8	393.4	394.6	399.5	404.3	405.6	404.3
27.5°	3337.4	3016.1	1651.6	453.2	362.8	365.3	377.5	389.7	397.0	398.2	398.2
30°	3546.3	3116.3	1390.2	367.7	335.9	335.9	350.6	373.8	389.7	392.1	393.4
32.5°	3815.0	3232.3	1100.6	331.0	310.3	307.8	321.3	349.4	378.7	387.2	387.2
35°	4147.3	3369.1	818.5	307.8	292.0	285.9	293.2	316.4	354.3	378.7	381.1
37.5°	4537.0	3498.6	598.6	287.1	274.9	266.3	271.2	289.5	320.1	356.7	366.5
40°	4897.3	3613.4	447.1	270.0	257.8	251.6	255.3	263.9	289.5	323.7	329.8
42.5°	5290.7	3702.6	355.5	251.6	240.7	238.2	238.2	241.9	259.0	278.5	279.7
45°	5682.8	3734.4	298.1	229.7	222.3	224.8	223.5	221.1	228.4	226.0	226.0
47.5°	5962.6	3696.5	246.8	208.9	208.9	212.6	206.4	197.9	194.2	179.6	180.8
50°	6154.3	3558.5	202.8	184.5	194.2	199.1	186.9	173.5	160.0	144.1	140.5
52.5°	6233.7	3312.9	166.1	152.7	172.2	178.4	163.7	147.8	127.0	113.6	109.9
55°	6182.4	3010.0	138.0	124.6	145.4	152.7	138.0	119.7	96.5	81.8	79.4
57.5°	5956.4	2648.4	117.3	98.9	116.1	120.9	111.2	91.6	68.4	53.7	53.7
60°	5565.5	2274.6	95.3	78.2	86.7	94.1	84.3	66.0	46.4	33.0	30.5
62.5°	4772.7	1847.0	77.0	61.1	61.1	67.2	58.6	47.6	29.3	17.1	15.9
65°	3446.1	1266.8	61.1	45.2	44.0	44.0	36.6	31.8	17.1	7.3	4.9
67.5°	1872.7	714.6	48.9	34.2	30.5	29.3	23.2	18.3	7.3	1.2	0.0
70°	736.6	274.9	37.9	23.2	19.5	18.3	12.2	8.6	4.9	0.0	0.0
71°	499.6	189.3	33.0	19.5	15.9	13.4	9.8	7.3	3.7	0.0	0.0
72.5°	285.9	117.3	25.7	14.7	12.2	9.8	7.3	4.9	3.7	0.0	0.0
75°	124.6	59.9	15.9	11.0	8.6	6.1	4.9	3.7	1.2	0.0	0.0
77.5°	63.5	33.0	11.0	8.6	4.9	3.7	2.4	1.2	0.0	0.0	0.0
80°	35.4	17.1	7.3	4.9	3.7	2.4	1.2	1.2	0.0	0.0	0.0
82.5°	19.5	9.8	3.7	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.2	6.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	2.4	0.0	0.0	0.0	0.0	1.2	1.2	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)