

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: P455957

Luminaire Tested: **GALN-SA7A-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455957
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-SA7A-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 18226 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 215
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



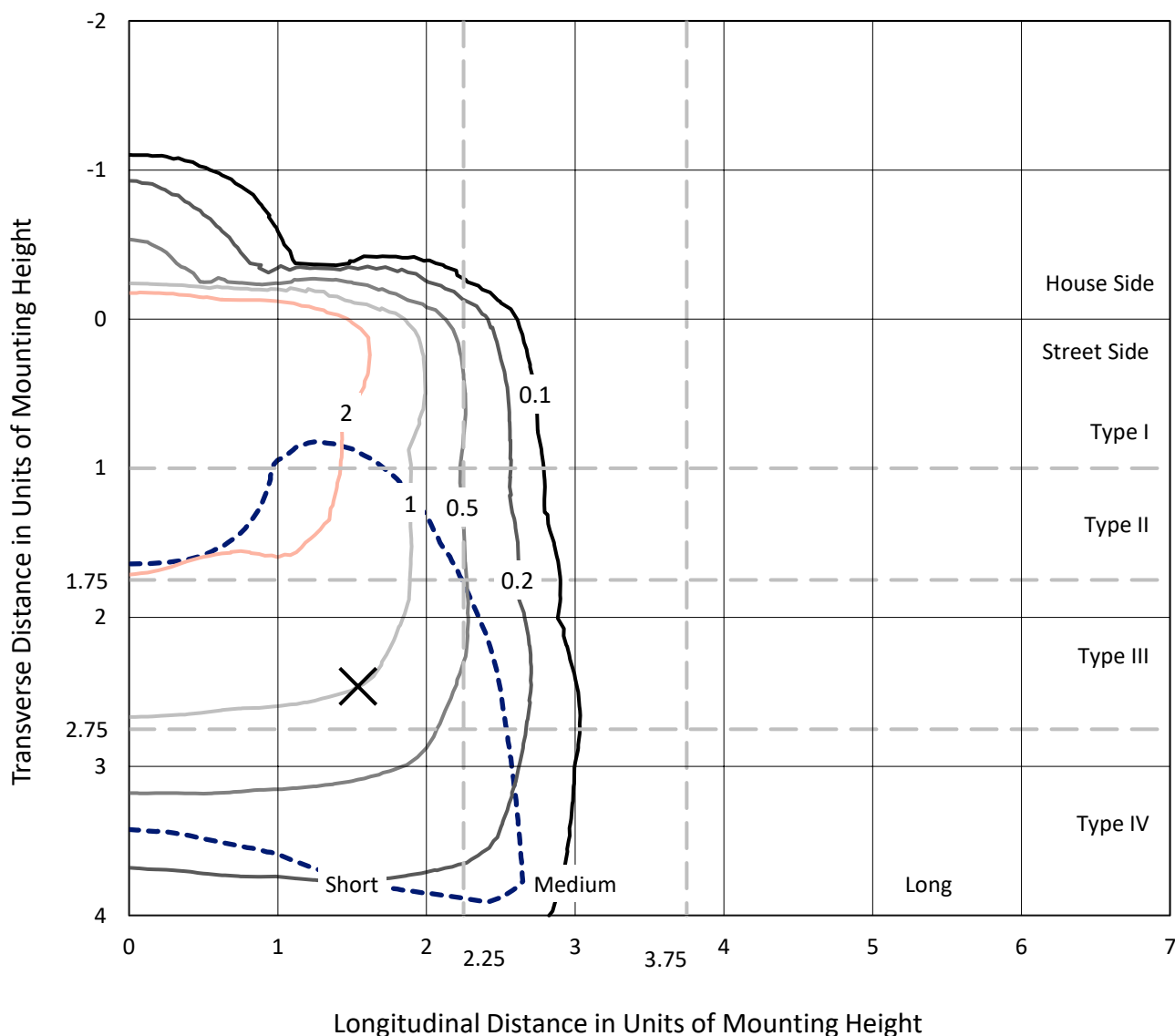
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

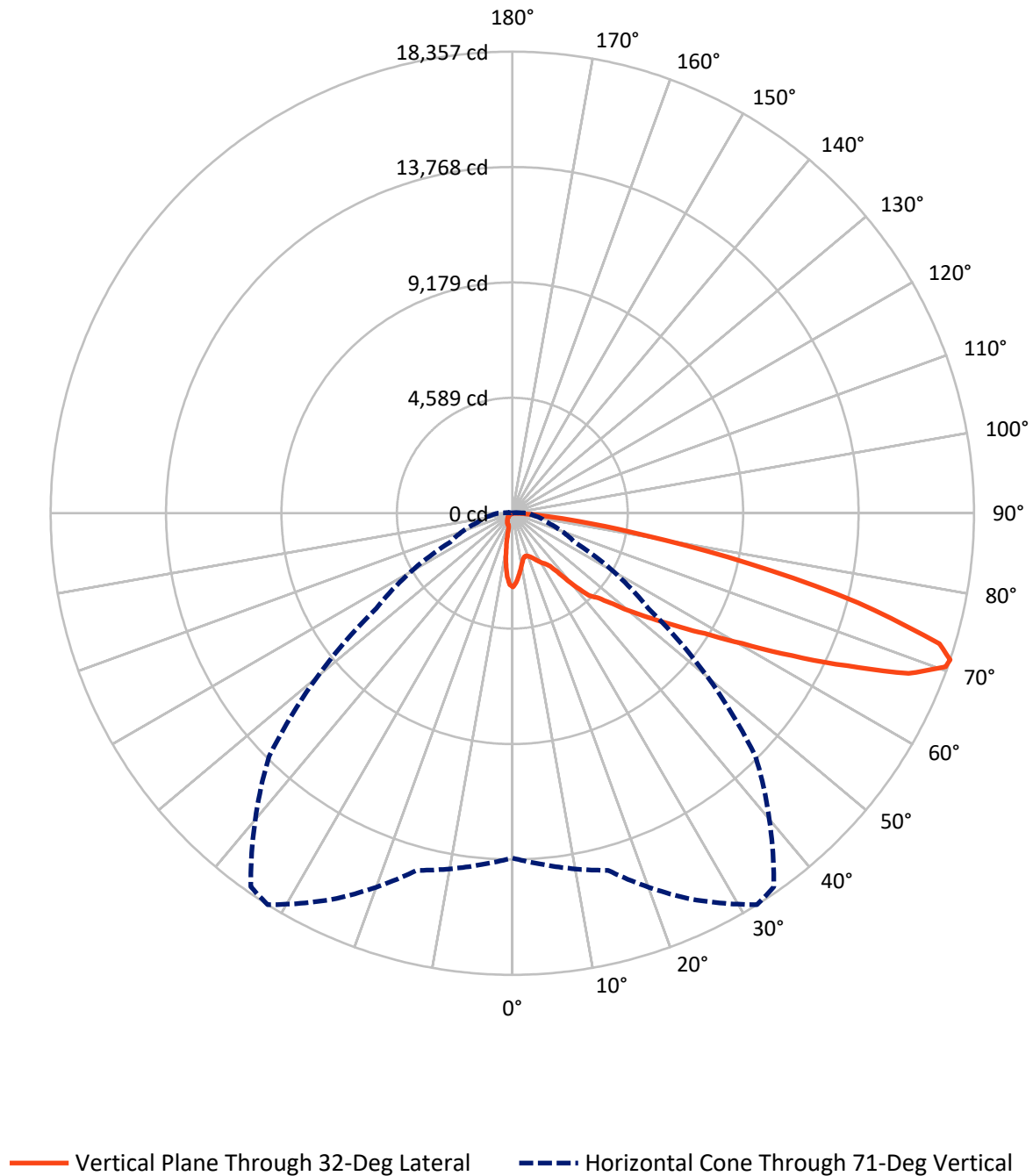


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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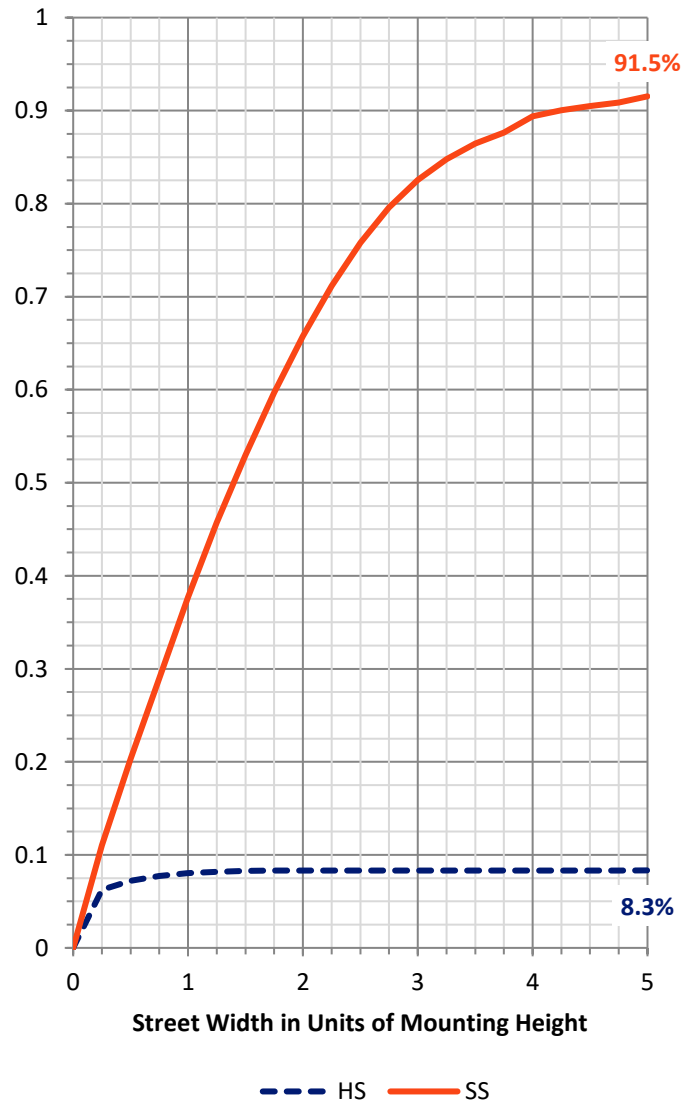
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1526.6	0.0	1526.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	16699.4	0.0	16699.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	18226.0	0.0	18226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.3	1.3
10°-20°	517.3	2.8
20°-30°	804.7	4.4
30°-40°	1340.6	7.4
40°-50°	2493.8	13.7
50°-60°	4003.8	22.0
60°-70°	5385.3	29.5
70°-80°	3195.2	17.5
80°-90°	247.0	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°	18226.0	100.0
0°-180°	18226.0	100.0

Coefficient of Utilization



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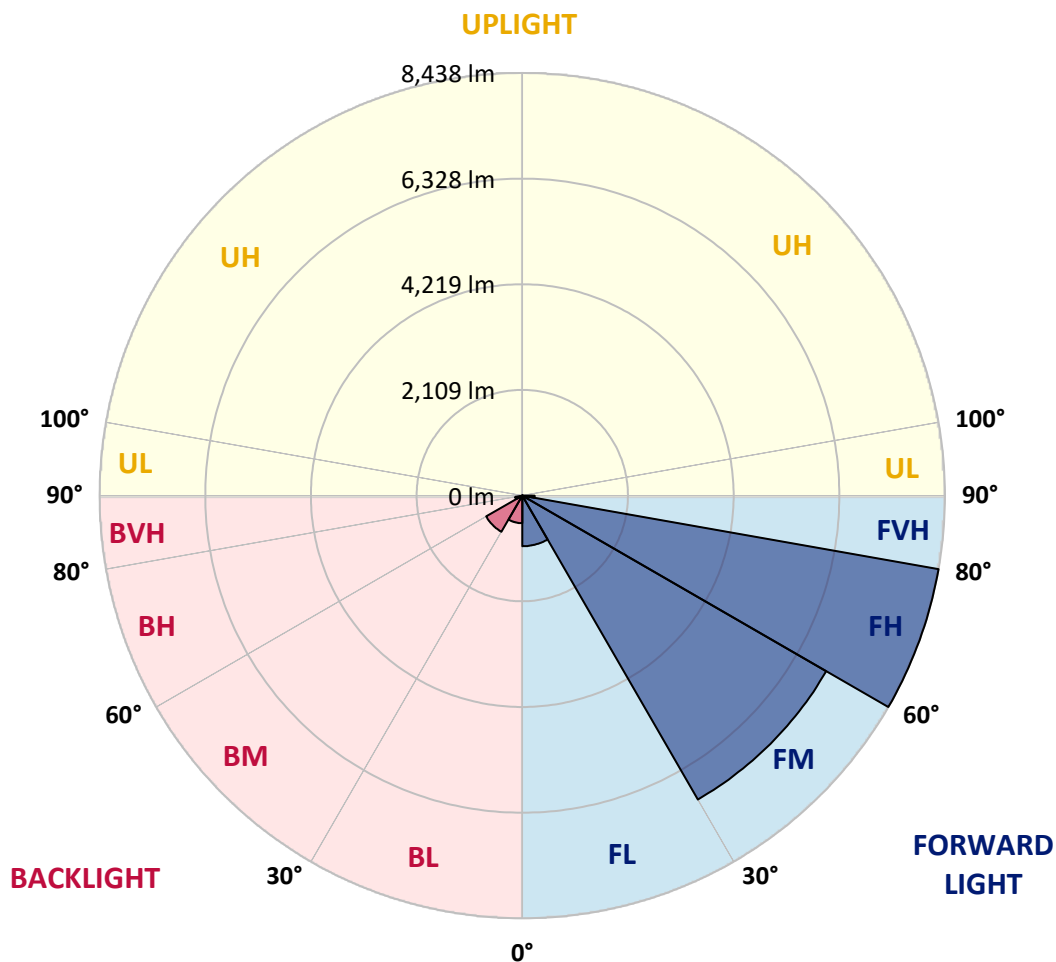
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1010.2	5.5			
FM	(30°-60°)	7005.4	38.4			
FH	(60°-80°)	8437.8	46.3			G4/12000
FVH	(80°-90°)	246.0	1.3			G3/500
BL	(0°-30°)	550.1	3.0	B2/1000		
BM	(30°-60°)	832.8	4.6	B1/1000		
BH	(60°-80°)	142.8	0.8	B1/500		G1/500
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0
2.5°	2718.4	2746.3	2742.2	2751.9	2775.7	2785.5	2812.1	2841.5	2882.1	2910.0	2928.2
5°	2434.4	2455.3	2458.1	2507.1	2530.9	2557.5	2635.8	2721.2	2816.3	2891.9	2942.2
7.5°	2130.8	2142.0	2164.3	2228.7	2288.9	2315.4	2434.4	2582.7	2732.4	2873.7	2964.6
10°	1880.3	1892.9	1933.5	2002.1	2058.0	2093.0	2258.1	2444.2	2654.0	2863.9	2996.8
12.5°	1737.6	1744.6	1760.0	1821.6	1892.9	1930.7	2108.4	2321.0	2591.1	2868.1	3051.3
15°	1727.8	1725.0	1706.9	1732.0	1796.4	1835.6	2009.0	2237.1	2535.1	2882.1	3115.7
17.5°	1779.6	1772.6	1729.2	1729.2	1782.4	1814.6	1967.1	2192.3	2507.1	2914.2	3206.6
20°	1859.3	1848.2	1776.8	1771.2	1823.0	1856.5	1992.3	2195.1	2512.7	2974.4	3328.4
22.5°	1960.1	1947.5	1839.8	1842.6	1898.5	1932.1	2065.0	2245.5	2547.7	3048.5	3458.5
25°	2091.6	2077.6	1950.3	1944.7	2003.5	2032.8	2172.7	2335.0	2596.7	3140.9	3629.2
27.5°	2266.5	2237.1	2084.6	2076.2	2139.2	2176.9	2302.8	2455.3	2683.4	3268.2	3858.6
30°	2410.6	2378.4	2232.9	2210.5	2277.7	2307.0	2437.2	2617.6	2854.1	3490.6	4176.2
32.5°	2599.4	2551.9	2381.2	2322.4	2393.8	2431.6	2631.6	2919.8	3107.3	3725.7	4553.9
35°	3024.8	2995.4	2786.9	2581.3	2577.1	2624.6	2918.4	3224.8	3367.5	4092.2	5068.8
37.5°	3633.4	3612.4	3391.3	3115.7	3036.0	3013.6	3266.8	3560.6	3783.1	4595.9	5667.6
40°	4339.9	4290.9	4088.0	3854.4	3750.9	3685.1	3678.1	4060.1	4325.9	5280.0	6291.6
42.5°	4846.3	4756.8	4510.6	4493.8	4471.4	4402.8	4204.2	4790.4	5026.8	6015.9	6958.9
45°	5378.0	5242.3	4875.7	4812.8	4804.4	4800.2	4998.8	5655.0	5790.7	6813.4	7644.5
47.5°	5790.7	5683.0	5382.2	5354.2	5389.2	5484.3	6049.5	6572.8	6544.8	7524.1	8219.5
50°	6340.5	6259.4	5925.0	5978.2	6158.7	6313.9	7234.5	7573.1	7164.6	8083.8	8637.8
52.5°	6989.7	6840.0	6529.4	6673.5	6950.5	7209.3	8492.3	8448.9	7599.7	8504.9	8949.8
55°	7552.1	7445.8	7339.5	7489.2	7903.3	8226.5	9628.3	9105.1	7915.9	8843.4	9086.9
57.5°	8503.5	8478.3	8369.2	8521.7	9023.9	9359.7	10645.4	9614.3	8118.7	9019.7	8926.0
60°	9910.9	9870.4	9667.5	9862.0	10516.7	11044.2	11582.8	10071.8	8164.9	8951.2	8462.9
62.5°	11603.8	11465.3	11291.8	11578.6	12476.8	12709.0	12465.6	10343.2	7992.8	8405.5	7346.5
65°	13184.7	13042.0	13046.2	13650.6	14628.5	14786.6	13495.3	10302.7	7489.2	7038.7	5418.5
67.5°	14394.9	14371.1	14541.8	15721.2	16999.9	16890.8	14415.9	9695.5	5996.4	4562.3	2879.3
70°	14456.5	14502.6	14992.3	16983.2	18281.5	18108.0	14337.5	7880.9	3738.3	2098.6	1134.6
71°	13712.2	14022.8	14699.9	16944.0	18357.0	18131.8	13677.2	6600.8	2742.2	1463.4	818.4
72.5°	11684.9	11848.6	13312.0	15946.5	17759.6	17278.4	12002.5	4626.7	1755.8	895.4	470.1
75°	6435.7	6838.6	8914.8	12510.4	14204.6	13782.1	7822.1	2197.9	875.8	489.7	194.5
77.5°	3063.9	2985.6	4349.7	7440.2	9631.1	9608.7	3941.1	976.5	510.7	331.6	97.9
80°	875.8	984.9	1664.9	3536.8	5347.2	5406.0	1513.8	471.5	354.0	258.8	50.4
82.5°	264.4	270.0	611.4	1564.1	2659.6	2507.1	568.0	240.6	254.6	205.7	29.4
85°	46.2	57.4	180.5	551.2	1014.3	769.5	142.7	114.7	167.9	135.7	16.8
87.5°	2.8	4.2	60.2	63.0	89.5	51.8	25.2	16.8	36.4	36.4	9.8
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°	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0
2.5°	2940.8	2949.2	2943.6	2931.0	2910.0	2884.9	2851.3	2823.3	2799.5	2786.9	2802.3
5°	2959.0	2970.2	2942.2	2879.3	2784.1	2680.6	2563.1	2472.1	2400.8	2378.4	2370.0
7.5°	2987.0	2994.0	2918.4	2778.5	2577.1	2332.2	2118.2	1937.7	1797.8	1755.8	1694.3
10°	3023.4	3019.2	2876.5	2616.2	2262.3	1894.3	1562.7	1316.5	1130.4	1063.3	1057.7
12.5°	3079.3	3056.9	2823.3	2395.2	1887.3	1406.1	996.1	779.3	661.8	622.6	614.2
15°	3149.3	3096.1	2739.4	2136.4	1445.2	908.0	614.2	548.4	533.0	530.2	527.4
17.5°	3231.8	3147.9	2628.8	1818.8	1015.7	589.0	513.5	512.1	513.5	510.7	509.3
20°	3343.7	3202.4	2497.3	1442.4	671.5	496.7	489.7	489.7	491.1	489.7	489.7
22.5°	3462.7	3266.8	2335.0	1101.1	506.5	471.5	470.1	472.9	475.7	474.3	474.3
25°	3609.6	3350.7	2121.0	754.1	453.3	450.5	451.9	457.5	463.1	464.5	463.1
27.5°	3822.2	3454.3	1891.5	519.1	415.5	418.3	432.3	446.3	454.7	456.1	456.1
30°	4061.5	3569.0	1592.1	421.1	384.7	384.7	401.5	428.1	446.3	449.1	450.5
32.5°	4369.3	3701.9	1260.6	379.1	355.4	352.6	368.0	400.1	433.7	443.5	443.5
35°	4749.8	3858.6	937.4	352.6	334.4	327.4	335.8	362.4	405.7	433.7	436.5
37.5°	5196.1	4006.9	685.5	328.8	314.8	305.0	310.6	331.6	366.6	408.5	419.7
40°	5608.8	4138.4	512.1	309.2	295.2	288.2	292.4	302.2	331.6	370.8	377.7
42.5°	6059.3	4240.5	407.1	288.2	275.6	272.8	272.8	277.0	296.6	319.0	320.4
45°	6508.4	4276.9	341.4	263.0	254.6	257.4	256.0	253.2	261.6	258.8	258.8
47.5°	6828.8	4233.5	282.6	239.2	239.2	243.4	236.4	226.6	222.5	205.7	207.1
50°	7048.5	4075.5	232.2	211.3	222.5	228.0	214.1	198.7	183.3	165.1	160.9
52.5°	7139.4	3794.2	190.3	174.9	197.3	204.3	187.5	169.3	145.5	130.1	125.9
55°	7080.6	3447.3	158.1	142.7	166.5	174.9	158.1	137.1	110.5	93.7	90.9
57.5°	6821.8	3033.2	134.3	113.3	132.9	138.5	127.3	104.9	78.3	61.6	61.6
60°	6374.1	2605.0	109.1	89.5	99.3	107.7	96.5	75.5	53.2	37.8	35.0
62.5°	5466.1	2115.4	88.1	70.0	70.0	76.9	67.2	54.6	33.6	19.6	18.2
65°	3946.7	1450.8	70.0	51.8	50.4	50.4	42.0	36.4	19.6	8.4	5.6
67.5°	2144.8	818.4	56.0	39.2	35.0	33.6	26.6	21.0	8.4	1.4	0.0
70°	843.6	314.8	43.4	26.6	22.4	21.0	14.0	9.8	5.6	0.0	0.0
71°	572.2	216.9	37.8	22.4	18.2	15.4	11.2	8.4	4.2	0.0	0.0
72.5°	327.4	134.3	29.4	16.8	14.0	11.2	8.4	5.6	4.2	0.0	0.0
75°	142.7	68.6	18.2	12.6	9.8	7.0	5.6	4.2	1.4	0.0	0.0
77.5°	72.8	37.8	12.6	9.8	5.6	4.2	2.8	1.4	0.0	0.0	0.0
80°	40.6	19.6	8.4	5.6	4.2	2.8	1.4	1.4	0.0	0.0	0.0
82.5°	22.4	11.2	4.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.0	7.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	2.8	0.0	0.0	0.0	0.0	1.4	1.4	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)