

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: P455261

Luminaire Tested: **GALN-SA6B-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455261
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-SA6B-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA 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: 19308 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 243
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

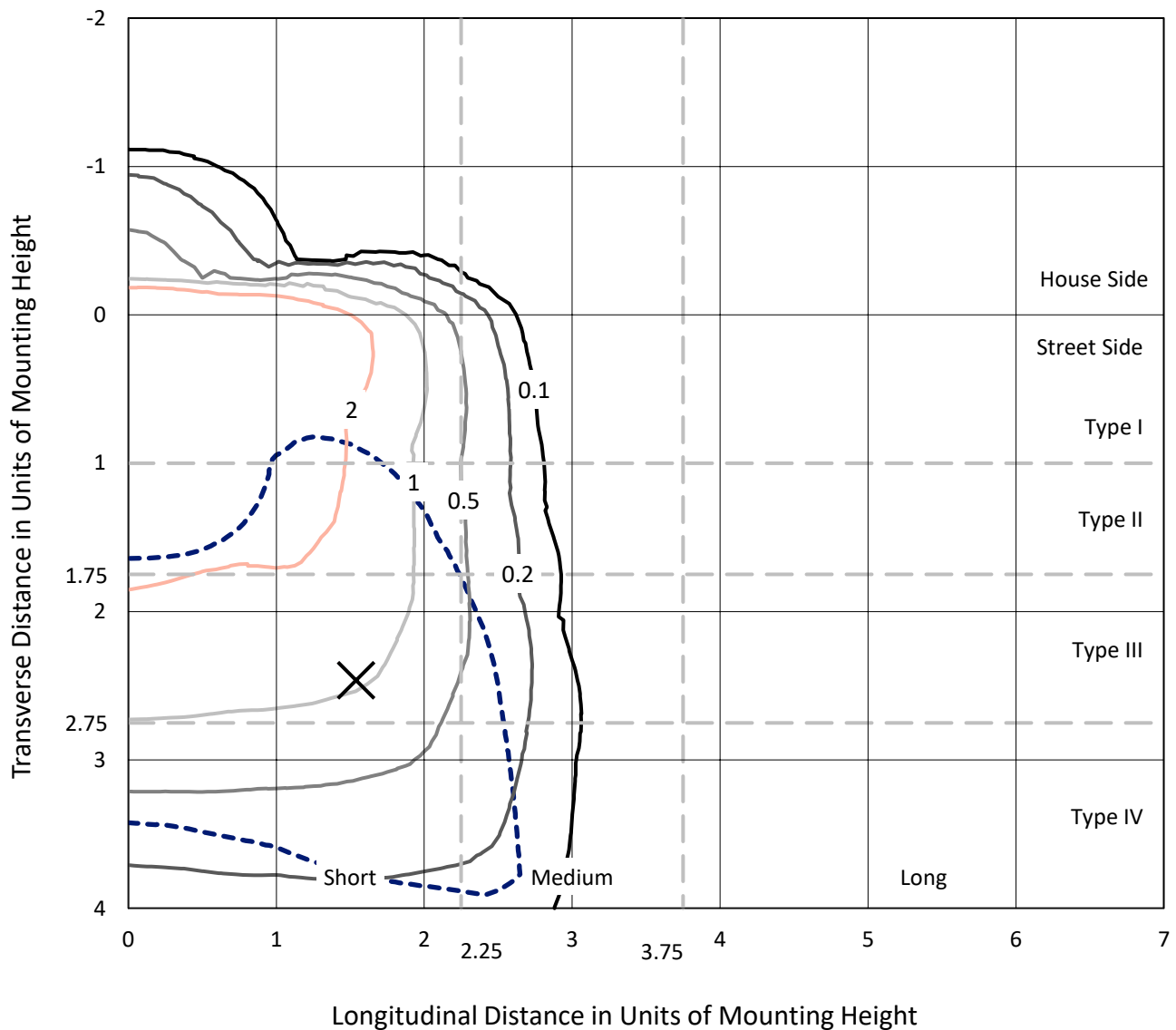


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

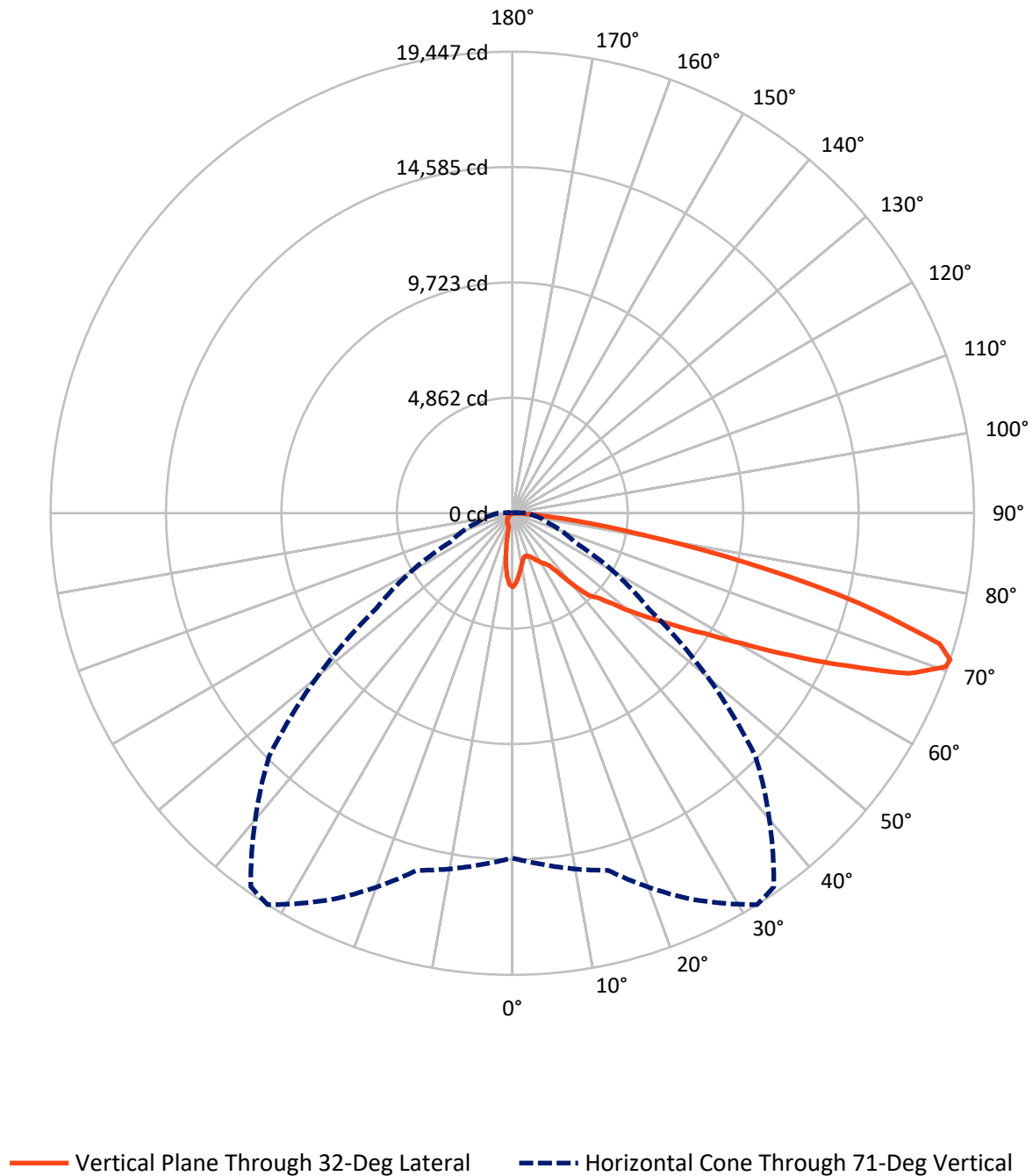


Based on 25 foot mounting height. Maximum calculated value = 5 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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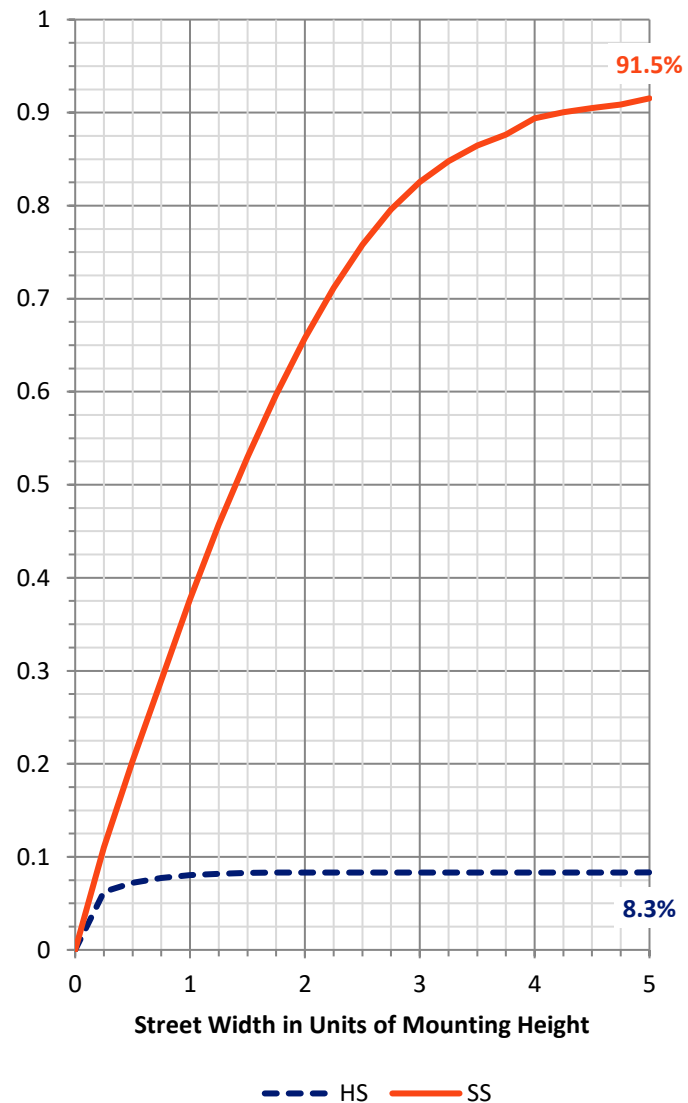
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1617.3	0.0	1617.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	17690.8	0.0	17690.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	19308.0	0.0	19308.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.5	1.3
10°-20°	548.0	2.8
20°-30°	852.5	4.4
30°-40°	1420.2	7.4
40°-50°	2641.8	13.7
50°-60°	4241.5	22.0
60°-70°	5705.0	29.5
70°-80°	3384.9	17.5
80°-90°	261.6	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°	19308.0	100.0
0°-180°	19308.0	100.0

Coefficient of Utilization



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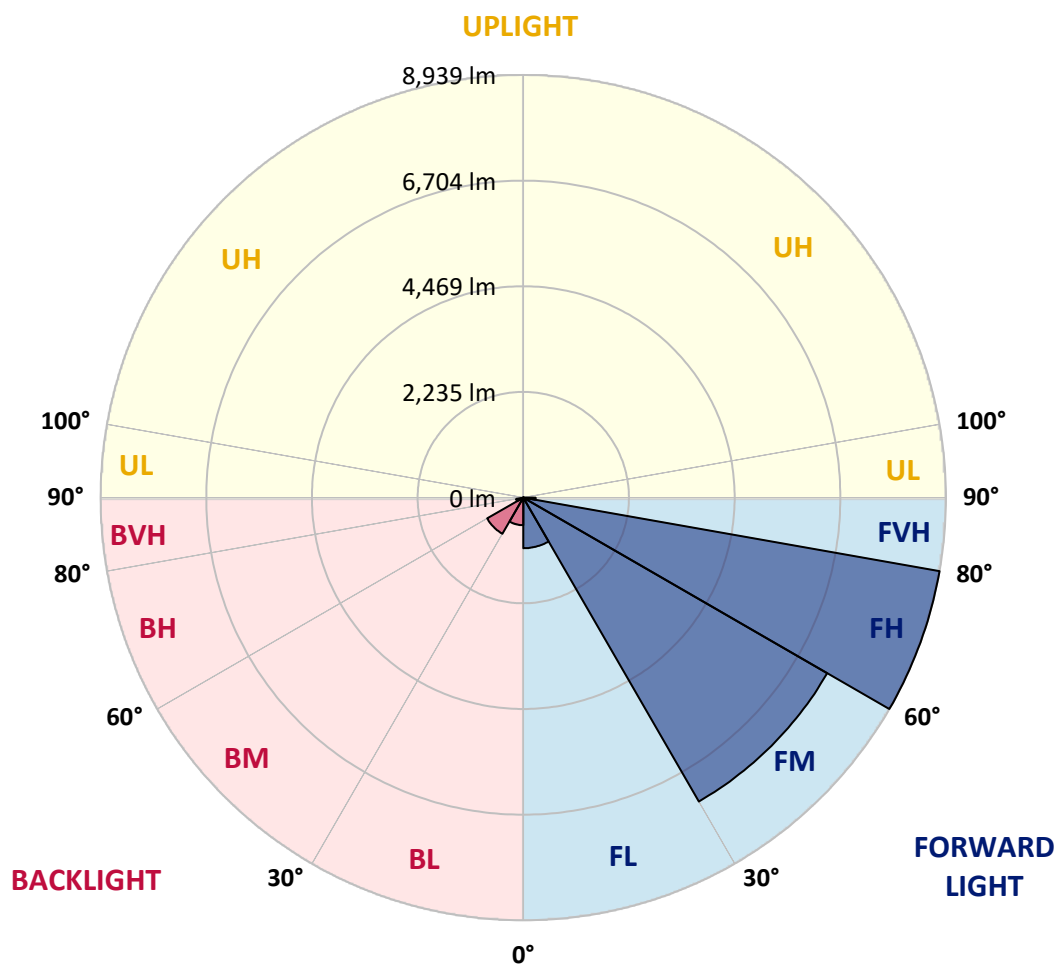
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1070.2	5.5			
FM	(30°-60°)	7421.3	38.4			
FH	(60°-80°)	8938.7	46.3			G4/12000
FVH	(80°-90°)	260.6	1.3			G3/500
BL	(0°-30°)	582.7	3.0	B2/1000		
BM	(30°-60°)	882.3	4.6	B1/1000		
BH	(60°-80°)	151.3	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°	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0
2.5°	2879.7	2909.4	2904.9	2915.3	2940.5	2950.9	2979.0	3010.2	3053.2	3082.8	3102.1
5°	2578.9	2601.1	2604.1	2655.9	2681.1	2709.3	2792.3	2882.7	2983.5	3063.5	3116.9
7.5°	2257.3	2269.1	2292.8	2361.0	2424.7	2452.9	2578.9	2736.0	2894.6	3044.3	3140.6
10°	1992.0	2005.3	2048.3	2120.9	2180.2	2217.2	2392.1	2589.3	2811.6	3033.9	3174.7
12.5°	1840.8	1848.2	1864.5	1929.7	2005.3	2045.3	2233.5	2458.8	2744.9	3038.3	3232.5
15°	1830.4	1827.4	1808.2	1834.9	1903.0	1944.5	2128.3	2369.9	2685.6	3053.2	3300.7
17.5°	1885.2	1877.8	1831.9	1831.9	1888.2	1922.3	2083.9	2322.5	2655.9	3087.2	3397.0
20°	1969.7	1957.9	1882.3	1876.4	1931.2	1966.8	2110.5	2325.4	2661.9	3151.0	3525.9
22.5°	2076.4	2063.1	1949.0	1951.9	2011.2	2046.8	2187.6	2378.8	2698.9	3229.5	3663.8
25°	2215.8	2200.9	2066.1	2060.1	2122.4	2153.5	2301.7	2473.6	2750.8	3327.3	3844.6
27.5°	2401.0	2369.9	2208.3	2199.5	2266.2	2306.2	2439.6	2601.1	2842.7	3462.2	4087.7
30°	2553.7	2519.6	2365.5	2341.7	2412.9	2444.0	2581.8	2773.0	3023.5	3697.9	4424.1
32.5°	2753.8	2703.4	2522.6	2460.3	2535.9	2575.9	2787.9	3093.2	3291.8	3946.9	4824.3
35°	3204.3	3173.2	2952.4	2734.5	2730.1	2780.4	3091.7	3416.3	3567.4	4335.2	5369.7
37.5°	3849.0	3826.8	3592.6	3300.7	3216.2	3192.5	3460.7	3772.0	4007.6	4868.7	6004.0
40°	4597.5	4545.6	4330.7	4083.2	3973.5	3903.9	3896.5	4301.1	4582.7	5593.5	6665.1
42.5°	5134.0	5039.2	4778.3	4760.5	4736.8	4664.2	4453.8	5074.8	5325.2	6373.1	7372.0
45°	5697.2	5553.5	5165.2	5098.5	5089.6	5085.1	5295.6	5990.7	6134.5	7217.9	8098.3
47.5°	6134.5	6020.3	5701.7	5672.0	5709.1	5809.9	6408.7	6963.0	6933.3	7970.8	8707.4
50°	6716.9	6631.0	6276.8	6333.1	6524.3	6688.8	7664.0	8022.7	7589.9	8563.7	9150.6
52.5°	7404.6	7246.1	6917.0	7069.7	7363.1	7637.3	8996.4	8950.5	8050.8	9009.8	9481.1
55°	8000.4	7887.8	7775.2	7933.8	8372.5	8714.8	10199.9	9645.6	8385.8	9368.4	9626.3
57.5°	9008.3	8981.6	8866.0	9027.6	9559.6	9915.3	11277.4	10185.1	8600.7	9555.2	9455.9
60°	10499.3	10456.3	10241.4	10447.4	11141.0	11699.8	12270.4	10669.7	8649.6	9482.6	8965.3
62.5°	12292.7	12145.9	11962.1	12266.0	13217.5	13463.5	13205.6	10957.3	8467.3	8904.5	7782.6
65°	13967.4	13816.3	13820.7	14461.0	15497.0	15664.5	14296.5	10914.3	7933.8	7456.5	5740.2
67.5°	15249.5	15224.3	15405.1	16654.5	18009.2	17893.6	15271.7	10271.0	6352.3	4833.2	3050.2
70°	15314.7	15363.6	15882.3	17991.4	19366.8	19183.0	15188.7	8348.7	3960.2	2223.2	1202.0
71°	14526.2	14855.2	15572.6	17949.9	19446.8	19208.2	14489.1	6992.6	2904.9	1550.3	867.0
72.5°	12378.6	12552.0	14102.3	16893.1	18814.0	18304.1	12715.1	4901.3	1860.1	948.6	498.0
75°	6817.7	7244.6	9444.0	13253.1	15047.9	14600.3	8286.5	2328.4	927.8	518.7	206.0
77.5°	3245.8	3162.8	4607.9	7881.9	10202.9	10179.2	4175.1	1034.5	541.0	351.3	103.7
80°	927.8	1043.4	1763.7	3746.8	5664.6	5726.9	1603.6	499.5	375.0	274.2	53.4
82.5°	280.1	286.0	647.7	1657.0	2817.5	2655.9	601.7	254.9	269.7	217.9	31.1
85°	48.9	60.8	191.2	584.0	1074.5	815.2	151.2	121.5	177.9	143.8	17.8
87.5°	3.0	4.4	63.7	66.7	94.9	54.8	26.7	17.8	38.5	38.5	10.4
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°	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0
2.5°	3115.4	3124.3	3118.4	3105.0	3082.8	3056.1	3020.5	2990.9	2965.7	2952.4	2968.7
5°	3134.7	3146.5	3116.9	3050.2	2949.4	2839.7	2715.2	2618.9	2543.3	2519.6	2510.7
7.5°	3164.3	3171.7	3091.7	2943.5	2730.1	2470.7	2243.9	2052.7	1904.5	1860.1	1794.8
10°	3202.8	3198.4	3047.2	2771.6	2396.6	2006.8	1655.5	1394.7	1197.5	1126.4	1120.5
12.5°	3262.1	3238.4	2990.9	2537.4	1999.4	1489.5	1055.3	825.5	701.0	659.5	650.6
15°	3336.2	3279.9	2902.0	2263.2	1531.0	961.9	650.6	581.0	564.7	561.7	558.8
17.5°	3423.7	3334.8	2784.9	1926.7	1076.0	624.0	543.9	542.5	543.9	541.0	539.5
20°	3542.3	3392.6	2645.6	1528.1	711.4	526.2	518.7	518.7	520.2	518.7	518.7
22.5°	3668.2	3460.7	2473.6	1166.4	536.5	499.5	498.0	501.0	503.9	502.4	502.4
25°	3823.9	3549.7	2246.9	798.9	480.2	477.2	478.7	484.7	490.6	492.1	490.6
27.5°	4049.1	3659.3	2003.8	549.9	440.2	443.2	458.0	472.8	481.7	483.2	483.2
30°	4302.6	3780.9	1686.6	446.1	407.6	407.6	425.4	453.5	472.8	475.8	477.2
32.5°	4628.6	3921.7	1335.4	401.7	376.5	373.5	389.8	423.9	459.5	469.8	469.8
35°	5031.8	4087.7	993.0	373.5	354.2	346.8	355.7	383.9	429.8	459.5	462.4
37.5°	5504.6	4244.8	726.2	348.3	333.5	323.1	329.0	351.3	388.3	432.8	444.6
40°	5941.8	4384.1	542.5	327.5	312.7	305.3	309.8	320.1	351.3	392.8	400.2
42.5°	6419.0	4492.3	431.3	305.3	292.0	289.0	289.0	293.5	314.2	337.9	339.4
45°	6894.8	4530.8	361.6	278.6	269.7	272.7	271.2	268.3	277.2	274.2	274.2
47.5°	7234.2	4484.9	299.4	253.4	253.4	257.9	250.5	240.1	235.7	217.9	219.4
50°	7466.9	4317.4	246.0	223.8	235.7	241.6	226.8	210.5	194.2	174.9	170.4
52.5°	7563.2	4019.5	201.6	185.3	209.0	216.4	198.6	179.3	154.1	137.8	133.4
55°	7501.0	3651.9	167.5	151.2	176.4	185.3	167.5	145.2	117.1	99.3	96.3
57.5°	7226.8	3213.2	142.3	120.1	140.8	146.7	134.9	111.2	83.0	65.2	65.2
60°	6752.5	2759.7	115.6	94.9	105.2	114.1	102.3	80.0	56.3	40.0	37.1
62.5°	5790.6	2241.0	93.4	74.1	74.1	81.5	71.1	57.8	35.6	20.7	19.3
65°	4181.0	1537.0	74.1	54.8	53.4	53.4	44.5	38.5	20.7	8.9	5.9
67.5°	2272.1	867.0	59.3	41.5	37.1	35.6	28.2	22.2	8.9	1.5	0.0
70°	893.7	333.5	45.9	28.2	23.7	22.2	14.8	10.4	5.9	0.0	0.0
71°	606.2	229.7	40.0	23.7	19.3	16.3	11.9	8.9	4.4	0.0	0.0
72.5°	346.8	142.3	31.1	17.8	14.8	11.9	8.9	5.9	4.4	0.0	0.0
75°	151.2	72.6	19.3	13.3	10.4	7.4	5.9	4.4	1.5	0.0	0.0
77.5°	77.1	40.0	13.3	10.4	5.9	4.4	3.0	1.5	0.0	0.0	0.0
80°	43.0	20.7	8.9	5.9	4.4	3.0	1.5	1.5	0.0	0.0	0.0
82.5°	23.7	11.9	4.4	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.8	7.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	3.0	0.0	0.0	0.0	0.0	1.5	1.5	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)