

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: P648491

Luminaire Tested: **GALN-SA6B-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18973.7 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

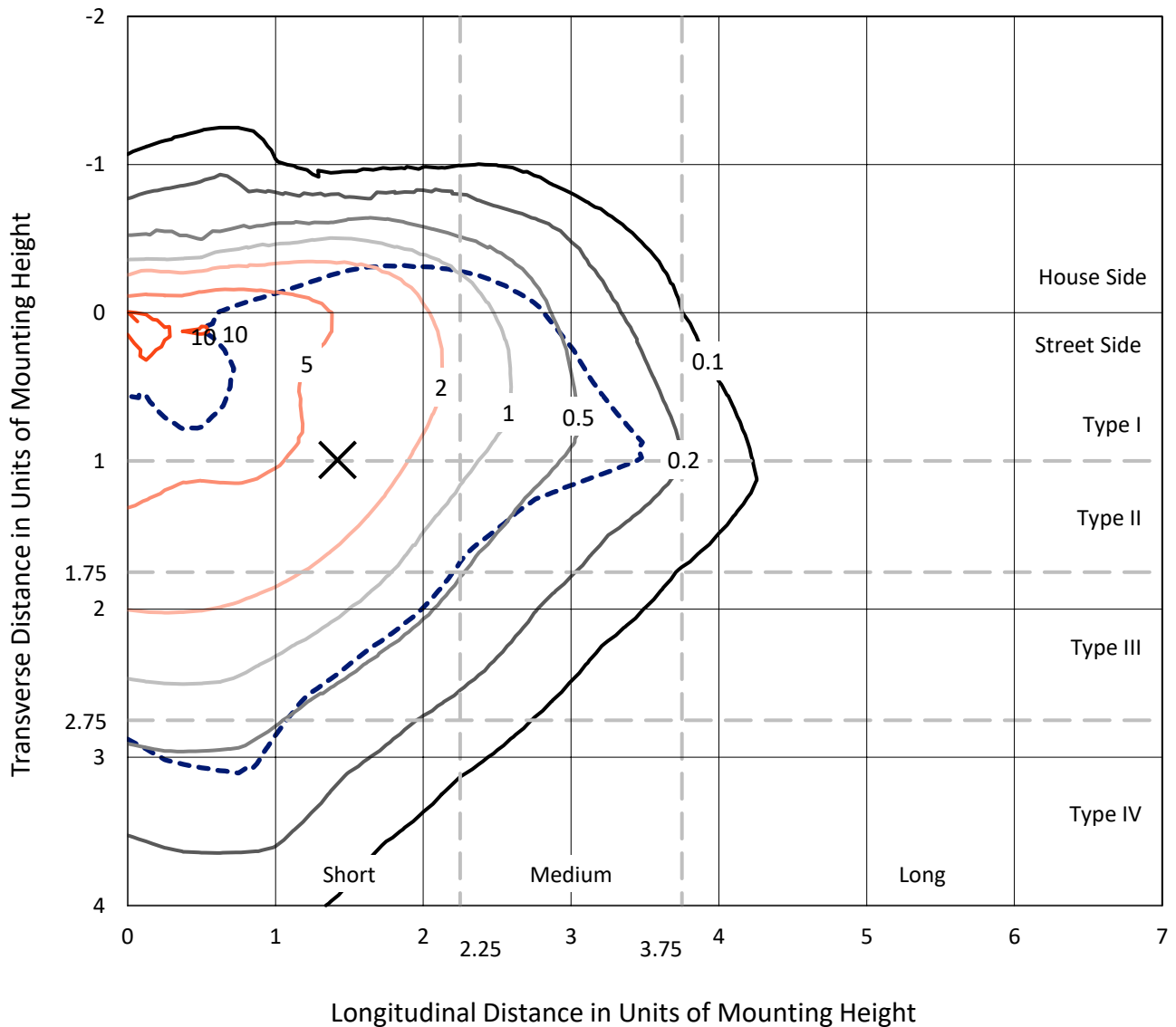
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

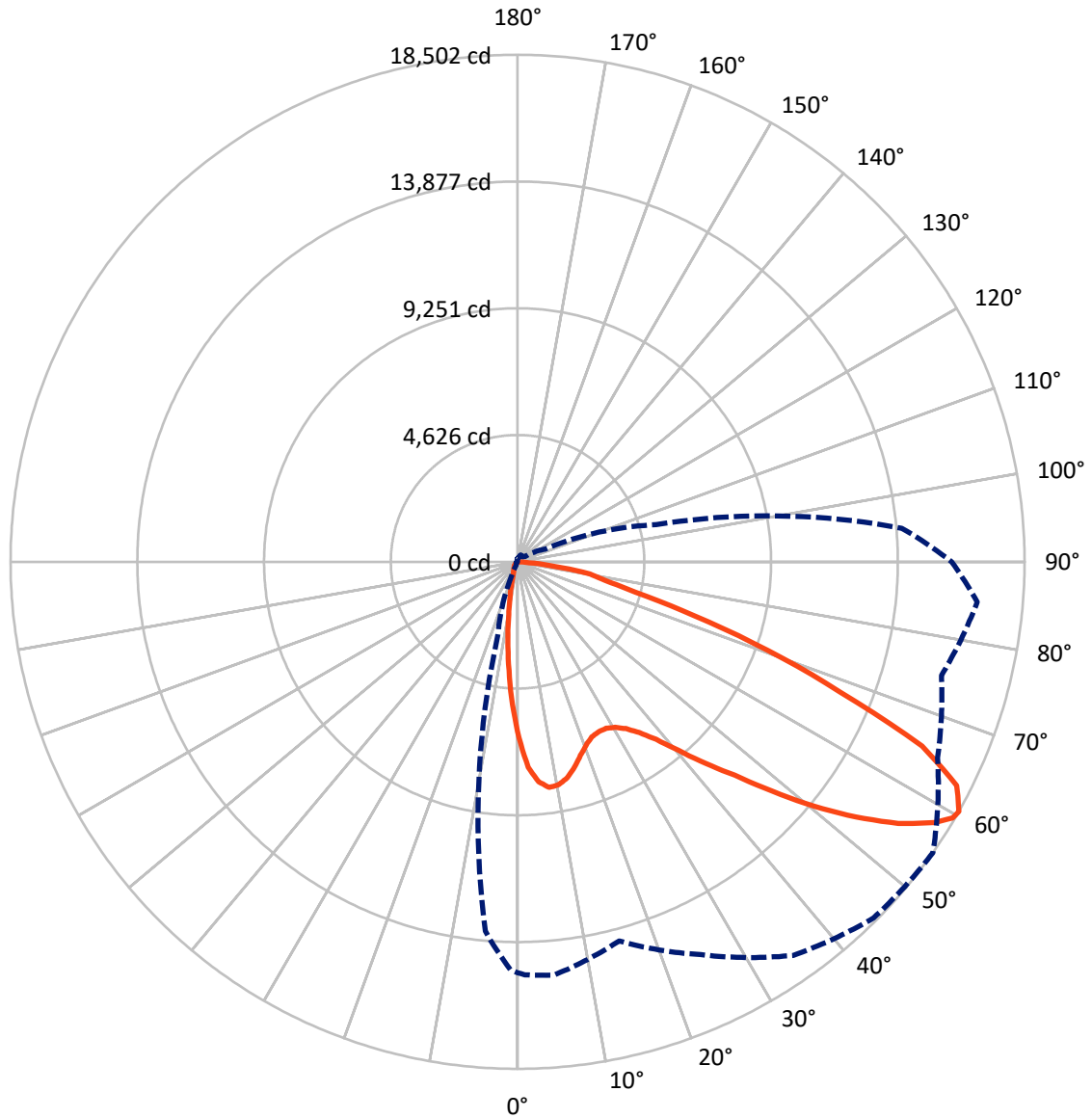
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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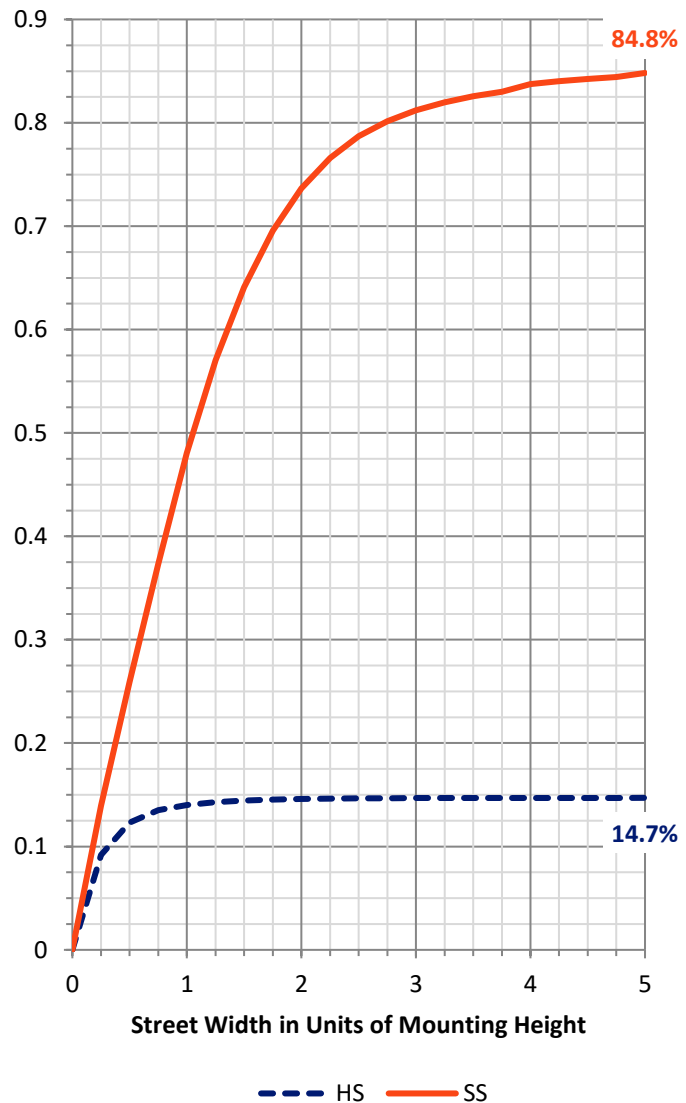
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2815.9	0.0	2815.9
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	16157.8	0.0	16157.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	18973.7	0.0	18973.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.7	2.5
10°-20°	936.8	4.9
20°-30°	1386.7	7.3
30°-40°	2067.0	10.9
40°-50°	3027.2	16.0
50°-60°	4370.3	23.0
60°-70°	4597.3	24.2
70°-80°	1891.2	10.0
80°-90°	221.5	1.2
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°	18973.7	100.0
0°-180°	18973.7	100.0

Coefficient of Utilization

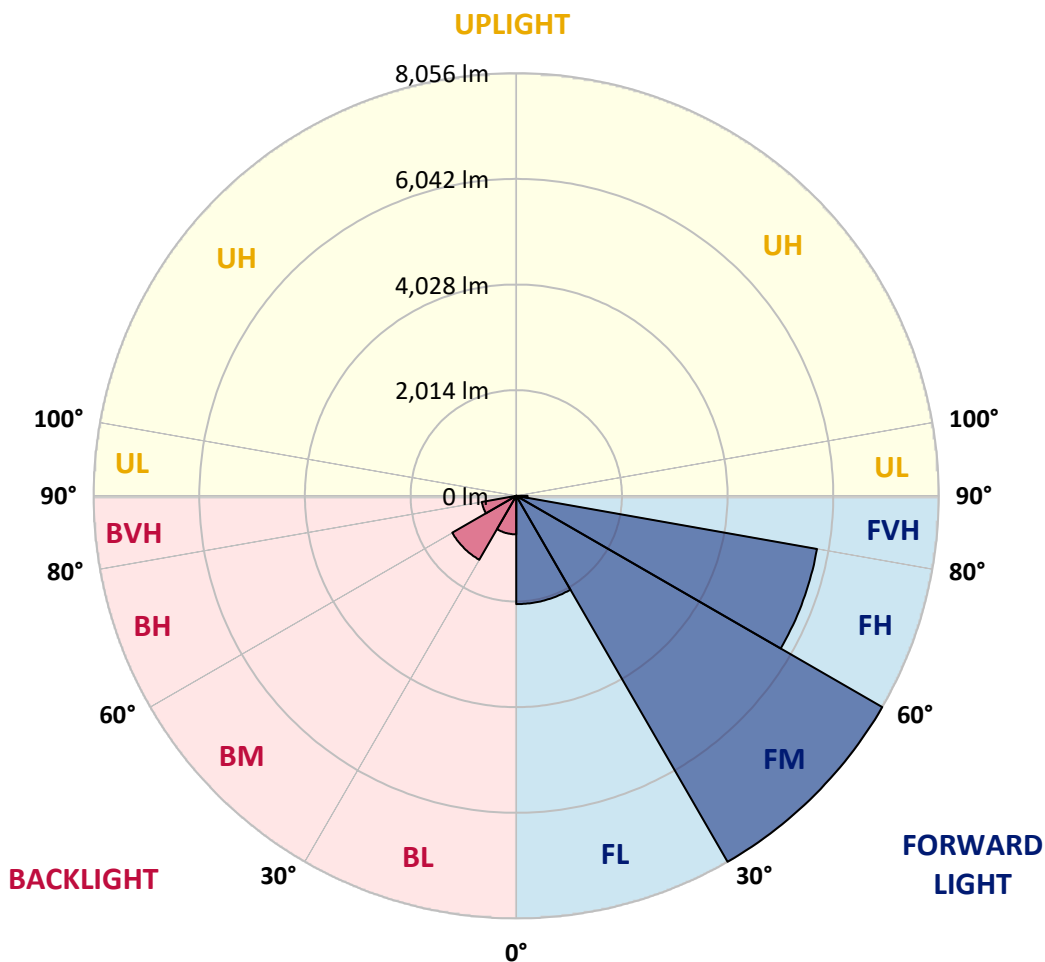


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2064.6	10.9			
FM	(30°-60°)	8056.3	42.5			
FH	(60°-80°)	5822.0	30.7			G3/7500
FVH	(80°-90°)	215.0	1.1			G2/225
BL	(0°-30°)	734.7	3.9	B2/1000		
BM	(30°-60°)	1408.2	7.4	B2/2500		
BH	(60°-80°)	666.5	3.5	B2/1000		G2/1000
BVH	(80°-90°)	6.5	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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4
2.5°	7018.8	7007.1	7110.8	7280.3	7451.1	7540.2	7522.7	7515.4	7373.7	7270.0	7052.4
5°	7004.2	7064.1	7249.6	7708.2	8055.7	8223.7	8273.3	8064.5	7788.5	7388.3	6894.7
7.5°	6585.1	6659.6	6961.9	7679.0	8296.7	8661.8	8648.6	8314.2	7744.7	7125.5	6421.5
10°	6065.2	6152.8	6507.7	7378.1	8179.8	8661.8	8688.1	8264.6	7556.3	6761.8	6021.3
12.5°	5698.6	5802.3	6195.2	7097.7	7879.0	8353.7	8384.3	8077.7	7414.6	6621.6	5803.8
15°	5574.5	5672.3	6071.0	6956.0	7559.2	7814.7	7807.4	7775.3	7359.1	6655.2	5815.4
17.5°	5787.7	5868.0	6317.8	7020.3	7259.8	7233.5	7271.5	7426.3	7370.8	6937.1	6183.4
20°	6338.2	6420.1	6903.5	7217.5	7030.5	6864.0	6881.6	7140.0	7478.8	7467.2	6758.9
22.5°	7096.3	7235.0	7673.1	7600.1	6999.9	6634.8	6598.2	6934.1	7662.9	8077.7	7535.8
25°	8055.7	8195.9	8537.7	8210.5	7150.3	6580.7	6547.1	6871.3	7886.3	8673.5	8410.6
27.5°	8861.9	8968.5	9308.8	8804.9	7372.3	6604.1	6548.5	6880.1	8067.4	9180.3	9148.1
30°	9507.4	9586.3	9786.3	9082.4	7563.5	6706.3	6642.0	7008.6	8147.7	9427.1	9745.5
32.5°	10027.3	10160.2	10223.0	9378.9	7838.1	6899.1	6789.5	7255.4	8343.4	9732.3	10371.9
35°	10621.7	10775.0	10694.7	9662.2	8200.3	7199.9	7065.6	7655.5	8639.9	10014.2	11099.3
37.5°	11375.3	11552.0	11238.0	9960.2	8582.9	7652.7	7589.9	8217.8	9089.7	10417.3	11879.1
40°	12155.1	12257.4	11765.2	10322.3	9053.2	8311.3	8371.2	9053.2	9678.3	10900.6	12708.6
42.5°	12764.2	12860.5	12307.0	10626.1	9533.7	9092.7	9342.4	10060.9	10353.0	11395.7	13327.9
45°	13230.0	13311.8	12682.3	10957.6	10182.1	10224.5	10696.2	11099.3	11029.2	11698.0	13805.5
47.5°	13592.2	13662.3	12971.6	11314.0	11153.3	11608.9	12330.4	12501.3	11730.2	12025.2	14237.8
50°	13741.2	13761.6	13062.1	11768.1	12255.9	13373.2	14125.2	14021.6	12533.4	12388.8	14697.8
52.5°	13935.4	13931.1	13320.6	12200.4	13292.8	14950.4	15701.1	15466.0	13441.8	12933.6	15214.8
55°	14445.1	14451.0	13874.1	12813.8	14176.4	16223.9	17027.1	16856.3	14399.8	13853.6	15817.9
57.5°	15064.3	15086.2	14661.3	13530.9	15020.5	17146.9	18017.3	17951.6	15695.2	14877.4	16387.5
59°	15144.6	15188.5	15033.7	14036.2	15521.4	17430.2	18356.1	18420.4	16389.0	15552.1	16695.6
60°	14998.6	15071.7	15141.7	14322.4	15815.0	17532.5	18376.5	18502.2	16910.3	16010.7	16835.8
62.5°	14361.9	14477.2	14829.2	15203.0	16181.6	17214.1	17723.8	17986.6	17555.8	17215.5	16849.0
65°	13528.0	13587.9	14096.0	15359.3	15470.4	15727.3	15885.1	16222.4	16780.3	17680.0	16245.8
67.5°	12161.0	12337.7	12959.8	14452.4	13371.7	13068.0	13028.5	12692.6	14141.4	16573.0	14759.1
70°	10046.3	10125.1	10891.8	11848.4	10091.5	9624.2	9811.1	9685.6	10962.0	14267.0	11879.1
72.5°	7597.1	7775.3	8524.5	9444.6	6866.9	6260.9	6776.4	6729.7	8233.9	11465.9	8160.9
75°	5405.0	5520.4	6475.6	7391.2	4809.2	4074.6	4260.1	4433.9	5748.2	9053.2	4822.3
77.5°	3713.8	3813.2	4530.3	4888.0	3507.9	3360.5	3074.2	3242.2	3766.5	5371.5	2624.4
80°	2240.3	2235.9	2707.6	2795.2	2443.3	2837.6	2380.5	2672.6	2276.8	2298.7	1016.5
82.5°	1454.6	1440.0	1656.1	1805.1	1359.7	1429.8	959.5	1383.0	1483.8	641.1	321.3
85°	651.4	679.1	795.9	1050.1	595.9	316.9	195.7	425.0	632.4	322.8	0.0
87.5°	67.2	52.5	140.2	255.6	81.7	8.8	29.2	14.6	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4
2.5°	6951.6	6866.9	6614.3	6377.7	6174.7	5926.4	5765.8	5513.1	5359.8	5313.0	5320.3
5°	6672.7	6428.8	5948.3	5564.2	5136.3	4892.4	4521.5	4165.2	3972.4	3900.8	3868.6
7.5°	6088.5	5827.1	5247.4	4644.1	4185.6	3757.7	3481.7	3167.7	2953.0	2776.3	2745.6
10°	5654.7	5311.6	4593.1	3944.6	3582.5	3261.1	2985.1	2671.1	2418.5	2216.9	2161.5
12.5°	5394.8	5010.7	4208.9	3665.7	3322.5	2992.4	2633.2	2269.5	2011.0	1793.4	1692.6
15°	5348.1	4902.7	4100.9	3465.6	3042.1	2643.4	2165.8	1772.9	1507.2	1301.3	1238.5
17.5°	5629.9	5096.9	4084.8	3256.7	2675.5	2110.3	1613.8	1288.1	988.7	873.4	828.1
20°	6132.4	5440.1	4083.3	3014.3	2298.7	1625.4	1133.3	839.8	718.6	663.0	636.7
22.5°	6817.3	5907.4	4160.8	2805.5	1907.3	1199.0	809.1	668.8	598.8	553.5	543.2
25°	7654.1	6599.7	4350.6	2663.8	1608.0	940.5	667.4	572.5	514.0	493.6	484.8
27.5°	8397.4	7262.7	4559.5	2517.8	1393.3	832.4	619.2	524.3	477.6	461.5	448.3
30°	9038.6	7864.4	4660.3	2325.0	1220.9	762.3	628.0	560.8	499.5	451.2	429.4
32.5°	9573.1	8325.9	4726.0	2149.7	1074.9	623.6	496.6	433.8	406.0	388.4	373.9
35°	10242.0	8825.3	4686.5	2050.4	1000.4	568.1	452.7	373.9	327.1	292.1	277.5
37.5°	10943.0	9324.8	4617.9	1968.7	966.8	527.2	430.8	354.9	303.8	267.2	248.3
40°	11668.8	9787.8	4537.6	1892.7	936.2	501.0	417.7	338.8	287.7	248.3	227.9
42.5°	12333.3	10239.1	4505.5	1843.0	886.5	505.3	407.5	331.5	271.6	230.8	213.2
45°	12870.8	10667.0	4549.2	1816.8	832.4	498.0	410.4	322.8	258.5	219.1	201.5
47.5°	13444.7	11271.6	4690.9	1790.5	779.9	463.0	432.3	321.3	252.7	211.7	192.8
50°	14112.1	12045.6	5015.1	1726.2	715.6	425.0	460.0	319.9	245.3	203.0	184.0
52.5°	15001.5	12924.8	5349.5	1613.8	622.2	388.4	439.6	315.5	230.8	192.8	173.8
55°	15800.4	13850.7	5632.9	1480.9	503.9	335.9	395.8	296.4	205.9	175.2	157.7
57.5°	16130.4	14373.5	5624.1	1296.9	403.1	295.0	325.6	271.6	179.6	154.8	140.2
59°	16009.2	14307.8	5435.7	1161.0	368.0	273.1	270.2	268.7	168.0	140.2	128.5
60°	15838.4	14068.3	5232.7	1093.9	346.1	258.5	248.3	265.8	157.7	131.5	119.7
62.5°	15184.1	13075.2	4559.5	979.9	316.9	219.1	198.6	224.9	140.2	113.9	103.7
65°	14236.3	11549.1	3859.9	947.8	308.2	181.1	165.1	160.7	119.7	96.4	87.6
67.5°	12387.4	9773.2	3126.8	925.9	311.1	151.9	144.6	121.2	99.3	80.3	74.5
70°	9917.8	7620.5	2560.1	901.1	314.0	124.1	121.2	96.4	80.3	67.2	61.3
72.5°	6025.7	4517.1	2015.4	782.8	305.2	99.3	108.1	73.1	58.4	48.2	45.3
75°	3725.6	3091.8	1250.1	609.0	201.5	73.1	76.0	45.3	39.5	30.7	30.7
77.5°	2158.5	1952.6	446.9	219.1	89.1	43.8	33.6	23.3	21.9	13.2	13.2
80°	895.2	717.1	154.8	74.5	48.2	20.4	7.3	1.5	0.0	0.0	0.0
82.5°	261.4	232.2	42.4	33.6	14.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4
2.5°	5196.2	5148.0	5126.1	5200.6	5131.9	5219.6	5152.4	5181.6	5267.8	5305.8	5403.6
5°	3889.2	3839.4	3816.1	3928.5	3922.7	3978.2	3972.4	4023.4	4067.3	3969.4	4070.2
7.5°	2709.1	2675.5	2731.0	2818.6	2912.1	2881.4	2881.4	2812.8	2836.2	2821.5	2817.2
10°	2060.7	1945.3	1916.1	1913.2	1948.2	1955.5	1916.1	1821.2	1856.2	1866.4	1927.7
12.5°	1621.0	1532.0	1396.2	1334.9	1318.7	1331.9	1201.9	1118.7	1158.1	1134.7	1194.6
15°	1162.5	1089.5	1009.1	940.5	921.5	895.2	753.6	654.3	642.6	647.0	657.2
17.5°	829.5	779.9	779.9	706.8	667.4	588.6	517.0	473.2	468.8	473.2	480.4
20°	611.9	585.6	582.7	563.8	519.9	467.4	417.7	408.9	406.0	413.3	416.2
22.5°	527.2	499.5	476.1	474.7	433.8	389.9	366.6	354.9	356.3	359.2	366.6
25°	471.8	442.5	417.7	403.1	373.9	343.2	321.3	315.5	315.5	319.9	321.3
27.5°	432.3	395.8	373.9	353.4	327.1	300.8	281.9	277.5	274.6	277.5	284.8
30°	404.6	368.0	340.3	309.6	289.2	264.3	248.3	242.4	241.0	242.4	248.3
32.5°	346.1	324.2	302.3	274.6	249.7	233.6	216.1	205.9	205.9	208.8	214.7
35°	261.4	249.7	248.3	241.0	220.5	203.0	182.5	172.3	172.3	178.2	181.1
37.5°	230.8	208.8	205.9	203.0	194.3	170.9	151.9	143.1	141.6	146.0	151.9
40°	210.3	185.5	172.3	169.4	170.9	144.6	124.1	115.3	115.3	116.8	122.7
42.5°	194.3	165.1	141.6	138.7	144.6	121.2	100.8	92.0	92.0	92.0	99.3
45°	181.1	147.5	119.7	105.2	113.9	99.3	81.7	73.1	70.1	73.1	76.0
47.5°	172.3	134.4	105.2	84.7	84.7	78.8	65.7	55.5	52.5	54.0	58.4
50°	165.1	122.7	89.1	68.7	61.3	62.8	49.6	42.4	39.5	39.5	43.8
52.5°	153.3	111.0	77.4	58.4	46.7	42.4	36.5	30.7	29.2	30.7	33.6
55°	138.7	100.8	67.2	48.2	36.5	29.2	26.3	21.9	20.4	21.9	26.3
57.5°	122.7	84.7	54.0	38.0	24.8	18.9	17.5	14.6	11.7	13.2	16.1
59°	112.4	76.0	46.7	30.7	18.9	13.2	13.2	10.3	7.3	8.8	13.2
60°	108.1	70.1	39.5	26.3	16.1	10.3	10.3	7.3	4.4	5.9	10.3
62.5°	92.0	58.4	30.7	16.1	7.3	1.5	4.4	1.5	0.0	1.5	4.4
65°	77.4	46.7	20.4	7.3	0.0	0.0	0.0	0.0	0.0	0.0	1.5
67.5°	64.3	35.1	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	51.1	23.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	35.1	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4
2.5°	5409.4	5618.3	5746.8	5989.2	6237.5	6428.8	6668.3	6883.0	6972.1	7018.8
5°	4172.5	4463.1	4709.9	5079.4	5422.6	5840.2	6263.8	6763.2	6954.5	7004.2
7.5°	2928.2	3224.6	3483.1	3911.0	4400.3	4959.6	5593.4	6227.3	6506.2	6585.1
10°	2114.7	2431.6	2747.1	3175.0	3632.1	4238.1	4898.3	5682.5	6003.8	6065.2
12.5°	1334.9	1675.2	2187.7	2716.4	3199.8	3687.6	4378.4	5231.2	5586.2	5698.6
15°	774.0	1028.2	1415.2	2104.5	2719.3	3364.9	4118.4	5061.9	5459.1	5574.5
17.5°	518.4	606.0	871.9	1399.1	2211.1	3066.9	4052.7	5200.6	5640.2	5787.7
20°	436.7	476.1	569.6	852.9	1702.9	2801.1	4070.2	5577.4	6154.2	6338.2
22.5°	384.1	420.6	480.4	613.4	1188.8	2471.1	4153.4	6116.2	6861.1	7096.3
25°	338.8	375.3	427.9	508.2	798.8	2089.9	4336.0	6904.9	7797.2	8055.7
27.5°	300.8	334.4	379.7	448.3	614.8	1664.9	4498.1	7673.1	8651.6	8861.9
30°	265.8	293.5	337.4	389.9	511.1	1283.7	4579.9	8344.9	9273.7	9507.4
32.5°	230.8	257.1	299.4	341.8	420.6	978.5	4522.9	8838.5	9878.3	10027.3
35°	197.2	224.9	260.0	299.4	363.6	790.1	4238.1	9393.5	10504.9	10621.7
37.5°	169.4	192.8	229.3	260.0	328.6	632.4	3893.5	9893.0	11207.3	11375.3
40°	143.1	166.5	203.0	230.8	302.3	498.0	3582.5	10447.9	11947.8	12155.1
42.5°	116.8	144.6	176.7	222.0	260.0	379.7	3205.7	10897.7	12504.2	12764.2
45°	93.5	124.1	159.2	220.5	226.4	289.2	2842.0	11248.2	12996.4	13230.0
47.5°	74.5	105.2	153.3	205.9	185.5	229.3	2634.6	11614.8	13405.3	13592.2
50°	59.9	87.6	160.7	181.1	154.8	194.3	2628.8	12023.7	13617.1	13741.2
52.5°	48.2	71.6	135.9	138.7	131.5	170.9	2786.5	12483.8	13833.2	13935.4
55°	40.9	59.9	89.1	102.3	118.3	154.8	2904.8	13192.1	14348.7	14445.1
57.5°	32.1	51.1	68.7	81.7	105.2	141.6	2920.8	13738.3	15001.5	15064.3
59°	27.7	43.8	61.3	73.1	96.4	132.9	2855.1	13771.9	15043.9	15144.6
60°	23.3	39.5	54.0	68.7	89.1	125.6	2783.6	13528.0	14886.2	14998.6
62.5°	17.5	30.7	39.5	55.5	73.1	108.1	2444.8	12676.5	14283.0	14361.9
65°	11.7	21.9	29.2	40.9	56.9	93.5	1992.0	11572.4	13351.2	13528.0
67.5°	7.3	16.1	23.3	30.7	46.7	78.8	1419.5	9923.6	12047.1	12161.0
70°	4.4	10.3	17.5	24.8	36.5	62.8	842.7	7843.9	10022.9	10046.3
72.5°	2.9	7.3	11.7	17.5	29.2	56.9	408.9	5113.0	7318.2	7597.1
75°	1.5	4.4	7.3	13.2	23.3	46.7	195.7	3415.9	5324.7	5405.0
77.5°	0.0	1.5	4.4	8.8	17.5	36.5	113.9	2243.2	3630.6	3713.8
80°	0.0	0.0	2.9	7.3	13.2	23.3	68.7	1323.1	2199.4	2240.3
82.5°	0.0	0.0	1.5	5.9	8.8	17.5	35.1	581.2	1440.0	1454.6
85°	0.0	0.0	1.5	5.9	7.3	11.7	13.2	78.8	639.6	651.4
87.5°	0.0	0.0	1.5	7.3	7.3	7.3	7.3	4.4	54.0	67.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)