

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: P382864

Luminaire Tested: **GLEON-SA2B-735-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2B-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8074.7 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

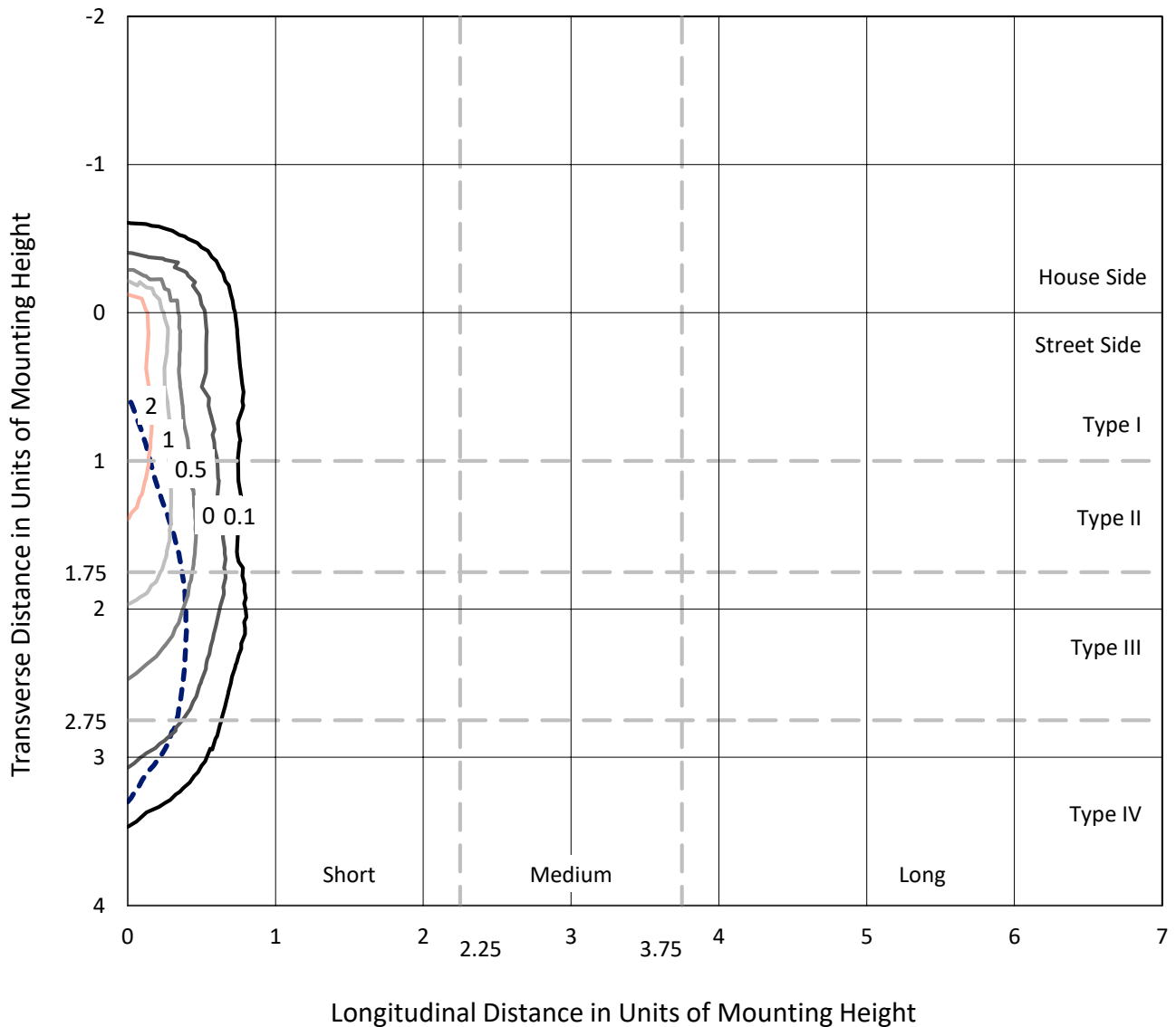
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

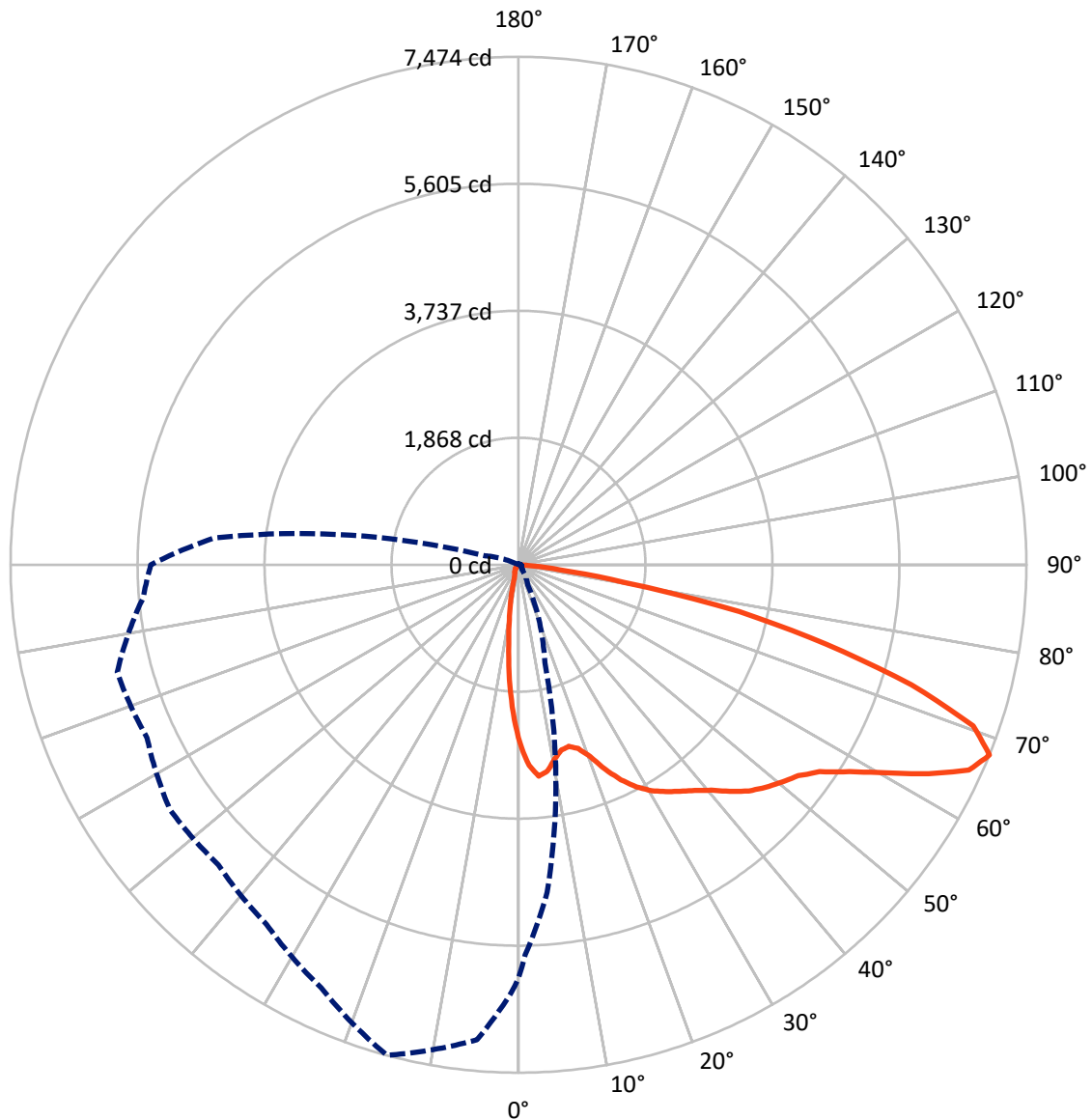
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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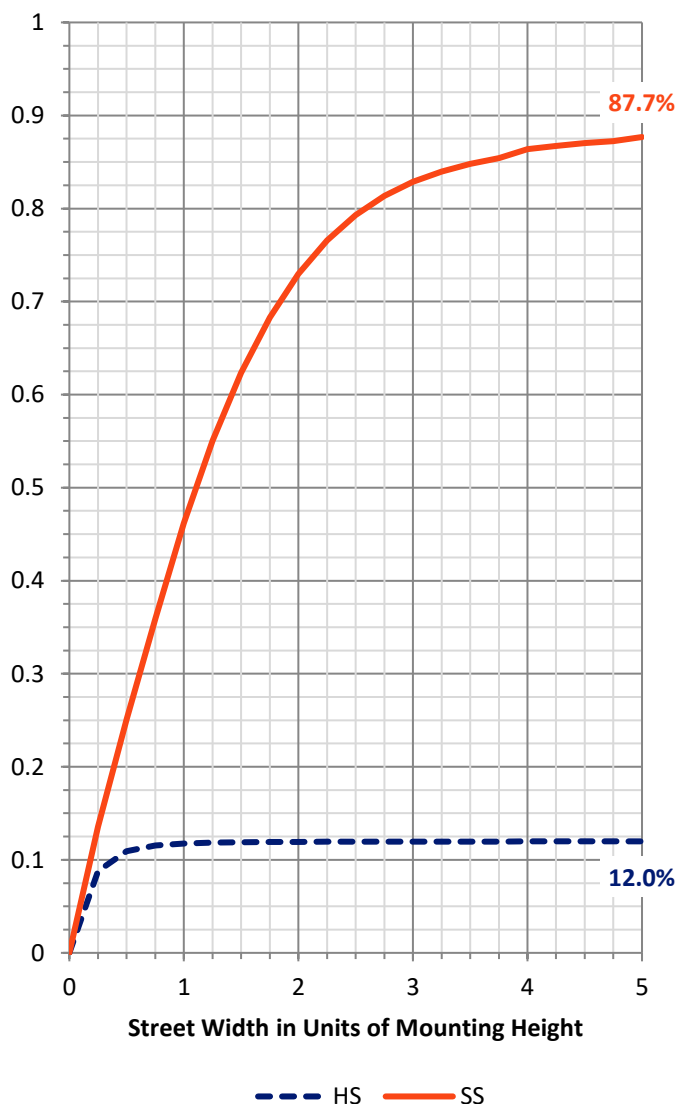
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	977.3	0.0	977.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	7097.4	0.0	7097.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	8074.7	0.0	8074.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.9	2.5
10°-20°	401.8	5.0
20°-30°	570.6	7.1
30°-40°	842.8	10.4
40°-50°	1215.5	15.1
50°-60°	1706.3	21.1
60°-70°	1989.1	24.6
70°-80°	1016.8	12.6
80°-90°	129.9	1.6
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°	8074.7	100.0
0°-180°	8074.7	100.0

Coefficient of Utilization

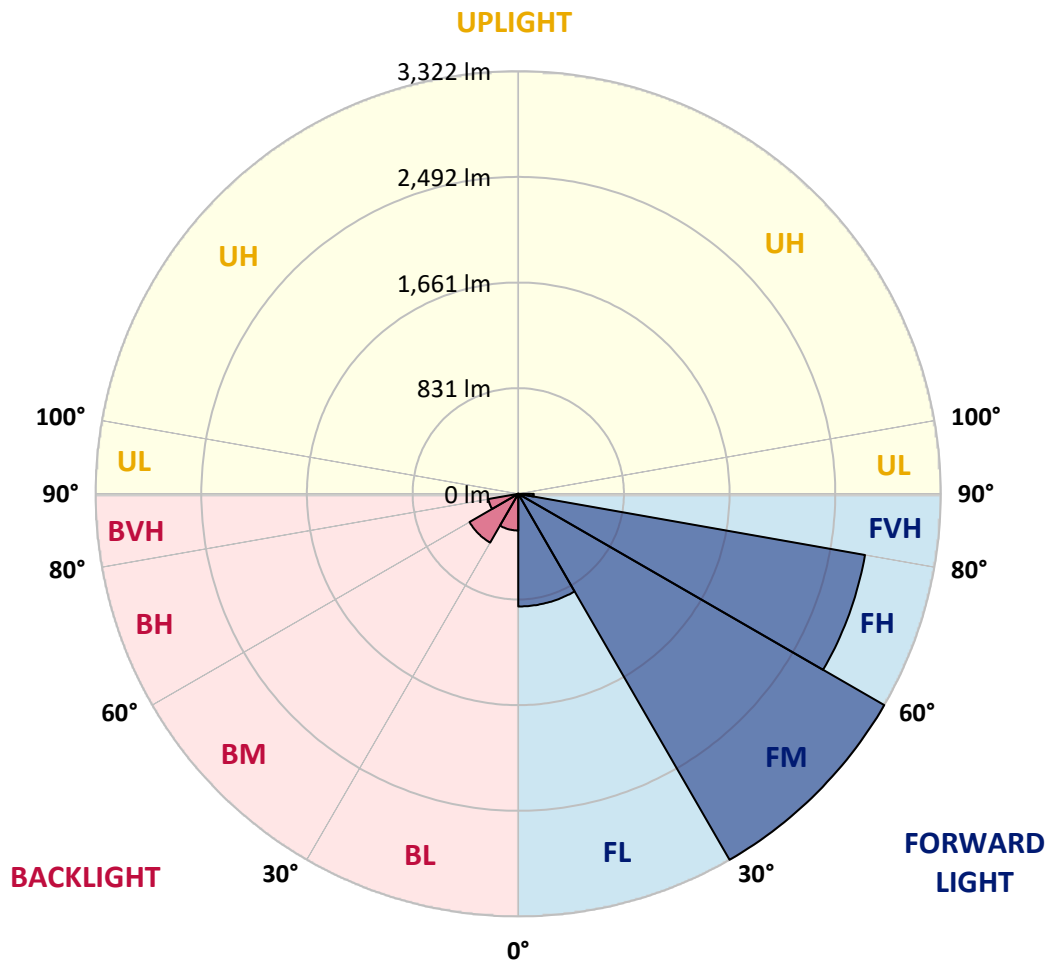


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	885.6	11.0			
FM (30°-60°)	3322.0	41.1			
FH (60°-80°)	2767.7	34.3			G2/5000
FVH (80°-90°)	122.0	1.5			G2/225
BL (0°-30°)	288.7	3.6	B1/500		
BM (30°-60°)	442.6	5.5	B1/1000		
BH (60°-80°)	238.2	2.9	B1/500		G1/500
BVH (80°-90°)	7.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3
2.5°	2880.1	2857.9	2833.4	2753.5	2679.2	2594.4	2525.1	2476.9	2416.4	2338.1	2318.2
5°	2859.5	2835.7	2758.9	2580.9	2425.3	2273.8	2127.7	2042.0	1935.7	1827.8	1801.0
7.5°	2651.7	2626.9	2515.9	2272.2	2062.6	1843.8	1654.1	1536.7	1416.5	1317.9	1265.4
10°	2435.6	2408.4	2283.7	1988.0	1729.8	1532.0	1392.8	1280.7	1167.1	1061.5	977.4
12.5°	2286.8	2251.2	2115.8	1780.7	1555.8	1421.5	1291.4	1157.2	1003.4	890.2	797.6
15°	2224.4	2183.9	2040.8	1700.7	1494.2	1336.6	1167.1	1002.3	822.1	692.4	607.5
17.5°	2272.6	2219.9	2066.5	1695.4	1416.9	1202.3	988.1	794.5	599.1	467.8	407.4
20°	2436.4	2367.2	2172.4	1693.8	1323.2	1042.8	771.2	552.4	394.8	317.5	285.8
22.5°	2694.2	2602.7	2324.7	1706.1	1226.4	875.3	557.0	375.2	296.4	256.3	237.5
25°	3005.5	2899.6	2543.9	1749.4	1141.5	712.3	404.8	296.4	250.2	220.7	205.0
27.5°	3301.7	3215.6	2820.8	1811.7	1075.7	580.7	328.6	251.3	213.8	194.3	181.7
30°	3597.4	3489.1	3105.0	1885.9	996.5	491.6	288.8	229.2	191.6	171.0	162.9
32.5°	3812.4	3722.5	3327.7	1939.5	912.0	433.4	258.2	209.6	179.0	158.0	146.2
35°	4065.2	3963.5	3518.5	1951.3	857.7	396.7	232.2	188.5	155.3	136.6	123.9
37.5°	4338.3	4211.7	3738.9	1925.3	815.2	378.7	212.7	179.0	144.9	125.9	112.4
40°	4640.5	4497.4	3950.4	1887.8	773.5	372.6	197.8	171.8	136.9	117.5	103.7
42.5°	4958.8	4790.1	4133.6	1848.4	747.1	351.6	196.3	164.5	130.8	109.8	96.0
45°	5226.2	5055.2	4321.9	1835.4	728.4	328.6	202.7	159.5	126.6	103.7	90.3
47.5°	5439.2	5277.4	4514.7	1864.5	717.7	307.6	184.7	166.0	124.4	98.3	85.3
50°	5693.6	5510.4	4786.3	1951.3	701.9	286.5	167.2	190.1	124.4	94.8	81.1
52.5°	6012.7	5831.4	5089.2	2085.9	670.6	257.5	150.4	190.5	125.5	90.3	75.7
55°	6414.0	6282.4	5521.8	2233.6	620.5	214.6	130.0	163.8	120.9	81.9	70.8
57.5°	6798.8	6691.3	5916.3	2334.6	553.5	167.6	113.3	132.0	110.6	71.9	63.2
59°	6904.0	6786.5	6060.8	2339.2	503.4	146.2	104.8	109.0	108.2	67.4	58.5
60°	6904.0	6779.2	6102.6	2314.7	467.1	134.2	99.5	97.2	112.8	64.3	55.9
62.5°	6778.9	6603.6	5967.1	2149.1	381.0	114.4	86.8	80.3	101.4	57.8	49.4
65°	6518.8	6263.6	5505.8	1849.6	339.7	104.8	75.0	65.8	70.4	50.9	43.2
67.5°	6085.0	5739.2	4840.6	1494.2	323.2	102.1	64.6	55.9	53.2	43.6	37.9
70°	5321.1	4937.4	4033.0	1174.8	309.1	101.0	54.3	47.0	42.9	36.7	32.1
72.5°	3872.8	3472.6	2863.3	918.5	300.7	103.3	43.6	39.4	35.2	28.7	24.9
75°	2215.2	1953.2	1609.3	606.7	256.3	98.7	33.6	32.9	25.2	20.7	17.2
77.5°	1144.5	1109.8	964.3	233.0	122.8	43.2	22.2	19.1	14.9	12.7	10.3
80°	493.8	488.5	422.7	67.4	32.5	24.1	12.7	8.0	6.9	5.3	4.2
82.5°	170.6	170.6	150.4	22.5	14.5	11.8	1.5	0.0	0.0	0.0	0.0
85°	34.5	38.7	27.2	0.0	4.9	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3
2.5°	2294.0	2247.7	2244.8	2215.6	2179.3	2162.9	2153.3	2170.1	2190.8	2193.0	2224.1
5°	1780.7	1732.1	1752.4	1700.7	1711.1	1700.7	1684.0	1686.9	1696.2	1667.5	1703.1
7.5°	1250.5	1213.8	1237.1	1223.3	1241.7	1249.0	1238.7	1223.3	1178.2	1172.8	1203.8
10°	942.5	900.9	876.0	849.9	855.7	867.6	863.7	852.6	824.0	825.5	855.3
12.5°	757.4	710.8	661.4	597.5	581.8	590.6	581.8	575.3	547.7	550.1	576.4
15°	574.6	536.3	484.7	433.4	405.5	408.2	383.7	366.5	349.2	328.6	344.7
17.5°	387.9	364.5	349.2	334.0	300.7	293.1	262.0	228.8	215.7	206.2	213.0
20°	274.6	262.0	255.9	255.2	236.1	226.5	196.3	175.6	169.1	167.2	171.4
22.5°	229.5	220.3	211.6	206.5	197.0	185.9	162.9	152.6	148.0	145.8	148.8
25°	199.7	192.8	183.6	175.2	171.4	159.5	143.1	135.4	132.4	130.0	131.6
27.5°	177.5	171.4	160.7	155.3	152.2	141.9	127.8	121.7	119.0	118.2	117.8
30°	159.9	154.2	144.2	138.1	132.7	123.5	115.1	109.0	106.4	105.5	104.8
32.5°	142.3	137.7	131.3	125.1	119.3	110.9	103.7	98.7	94.5	93.7	93.3
35°	120.1	115.5	112.1	111.7	106.4	98.3	93.0	86.4	83.0	81.9	82.3
37.5°	106.8	100.6	93.0	95.7	94.1	88.4	81.1	74.6	71.2	70.4	70.4
40°	98.3	91.9	83.0	78.4	83.0	81.9	70.4	63.9	60.5	60.1	59.2
42.5°	90.3	83.7	73.9	66.1	68.5	71.9	60.8	54.7	51.2	50.5	49.4
45°	84.6	77.7	66.6	57.8	53.2	60.5	52.0	44.3	42.5	40.9	40.1
47.5°	79.2	72.7	60.1	50.1	42.5	43.6	41.7	36.3	34.0	32.5	32.1
50°	74.6	67.7	54.3	42.9	35.2	32.1	33.6	28.7	26.7	25.2	24.5
52.5°	69.2	62.7	48.2	37.1	29.4	25.2	25.6	22.5	20.7	19.5	19.1
55°	65.0	58.5	43.2	32.5	26.0	20.7	18.4	17.6	16.5	15.6	15.3
57.5°	59.2	53.2	38.3	27.6	22.2	16.9	14.2	14.2	13.8	13.0	12.7
59°	55.9	50.5	35.2	24.9	20.3	14.5	12.7	13.0	12.7	11.8	11.5
60°	53.2	48.2	32.9	22.9	19.1	13.4	11.5	12.2	11.8	11.1	10.7
62.5°	47.0	43.6	28.3	19.1	16.9	10.7	9.6	10.3	10.3	10.0	9.6
65°	41.3	37.4	24.1	16.0	15.6	9.2	7.6	9.2	9.6	8.8	8.0
67.5°	36.0	32.1	21.1	13.0	14.5	7.3	5.8	7.6	10.3	8.0	7.3
70°	30.6	26.7	16.5	10.3	15.3	4.9	4.6	6.9	12.2	8.8	6.9
72.5°	23.8	20.7	11.5	7.6	16.5	3.4	3.4	5.8	13.8	9.6	6.5
75°	16.5	13.4	6.9	4.6	13.4	2.3	2.3	5.3	13.0	8.8	6.1
77.5°	9.6	7.3	2.3	0.4	6.9	0.0	0.4	3.8	9.2	5.3	2.7
80°	3.4	1.5	0.0	0.0	4.2	0.0	0.0	0.0	0.7	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3
2.5°	2232.1	2283.7	2330.0	2400.0	2483.0	2578.6	2660.9	2749.3	2832.3	2866.7	2890.4
5°	1710.3	1774.2	1848.7	1951.7	2088.6	2257.3	2415.3	2594.0	2786.0	2882.0	2972.3
7.5°	1209.1	1274.3	1366.8	1476.2	1641.9	1842.7	2049.2	2296.0	2556.1	2707.9	2857.5
10°	869.5	949.4	1035.9	1185.5	1353.8	1544.3	1757.0	2032.4	2322.3	2490.7	2670.8
12.5°	591.8	682.8	813.6	981.2	1179.0	1365.6	1550.4	1813.3	2149.8	2316.7	2509.8
15°	355.0	405.5	543.9	737.9	980.5	1213.1	1415.4	1678.9	2037.8	2242.0	2442.9
17.5°	218.8	242.1	317.5	476.7	731.5	1025.5	1303.0	1633.4	2053.8	2302.5	2517.4
20°	174.5	183.6	207.7	281.5	484.7	819.0	1176.3	1624.2	2185.0	2491.1	2721.7
22.5°	151.5	160.3	176.3	204.7	304.9	613.2	1056.2	1632.6	2373.2	2773.8	3043.1
25°	133.5	141.1	156.5	179.8	223.4	431.9	927.6	1670.2	2618.5	3124.5	3410.7
27.5°	119.3	125.9	140.0	161.4	191.6	301.4	781.9	1715.6	2909.1	3483.3	3765.7
30°	106.4	112.1	124.7	144.6	166.4	231.8	622.0	1746.7	3200.2	3765.7	4019.3
32.5°	95.3	99.5	110.9	127.8	144.6	184.7	472.9	1741.7	3416.5	4000.5	4201.7
35°	83.7	87.9	97.9	112.4	125.9	152.6	371.8	1648.7	3604.6	4244.2	4410.6
37.5°	71.2	76.5	86.1	99.1	108.2	134.2	300.7	1536.7	3795.5	4522.7	4643.6
40°	60.5	65.8	74.2	88.4	94.1	127.3	231.0	1400.1	4010.1	4834.1	4899.1
42.5°	50.1	55.1	63.9	76.1	88.8	109.8	171.0	1244.0	4216.3	5100.3	5132.1
45°	40.5	45.6	54.7	67.0	94.8	91.0	132.4	1076.9	4382.7	5321.8	5332.2
47.5°	32.1	36.7	46.3	63.2	88.4	72.7	94.5	945.6	4522.3	5494.7	5467.5
50°	24.9	28.7	38.7	72.3	77.2	60.1	71.5	902.0	4647.4	5601.9	5531.4
52.5°	19.5	22.9	31.8	67.7	60.1	49.7	60.1	942.9	4818.8	5690.5	5567.4
55°	15.6	19.1	24.9	38.7	40.9	42.1	51.2	981.2	5114.5	5898.7	5779.7
57.5°	13.0	16.5	20.3	27.2	31.0	35.6	45.6	985.4	5463.0	6244.4	6132.0
59°	11.8	14.9	18.4	24.1	27.2	32.5	42.9	962.5	5585.7	6370.3	6314.1
60°	11.1	14.2	17.2	22.2	25.2	30.6	41.3	940.7	5591.1	6365.7	6391.7
62.5°	9.6	12.7	15.3	18.7	21.4	26.0	37.1	859.9	5364.7	6157.3	6345.1
65°	8.4	11.1	13.8	16.0	18.4	23.3	33.6	712.6	4977.9	5821.1	6025.7
67.5°	7.6	9.6	12.7	14.2	16.5	20.7	29.8	508.0	4494.8	5409.8	5542.5
70°	6.9	9.2	11.5	13.0	14.9	18.0	25.6	291.9	3795.5	4807.7	4902.2
72.5°	6.5	8.8	10.3	12.2	13.4	16.0	23.3	137.3	2779.1	3851.4	4098.1
75°	5.8	8.0	9.6	11.5	12.7	14.5	19.9	65.8	1848.4	2787.1	3067.6
77.5°	3.4	6.5	8.8	10.3	11.1	12.7	16.5	37.9	1179.7	1929.1	2272.2
80°	0.0	2.3	6.5	8.8	9.6	10.7	12.7	29.8	631.2	1102.1	1322.8
82.5°	0.0	0.0	4.6	6.9	6.5	7.3	9.6	18.7	284.6	720.3	811.8
85°	0.0	0.0	1.5	5.3	4.6	3.4	6.5	6.5	62.3	364.5	454.9
87.5°	0.0	0.0	0.0	0.4	2.3	1.5	2.7	0.7	0.4	27.2	110.2
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°	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3
2.5°	2973.4	3001.7	3049.6	3072.2	3061.1	3014.0	2957.8	2900.4	2866.7	2880.1
5°	3156.3	3302.1	3386.2	3414.1	3367.5	3261.9	3123.8	2941.6	2877.1	2859.5
7.5°	3156.3	3430.6	3604.3	3634.8	3530.8	3323.9	3064.9	2780.7	2686.1	2651.7
10°	3045.3	3418.7	3660.9	3709.4	3564.1	3254.6	2907.6	2583.3	2471.2	2435.6
12.5°	2920.3	3322.3	3577.4	3644.4	3525.1	3185.7	2798.6	2449.8	2317.8	2286.8
15°	2843.4	3203.7	3414.9	3463.5	3413.0	3145.6	2772.6	2409.5	2254.3	2224.4
17.5°	2870.9	3111.9	3188.0	3216.4	3250.4	3131.4	2843.4	2497.6	2300.9	2272.6
20°	2974.6	3015.1	2975.7	3011.3	3103.1	3145.2	3012.1	2710.2	2474.2	2436.4
22.5°	3150.6	2965.0	2854.4	2868.6	2980.3	3190.7	3269.9	3014.0	2741.6	2694.2
25°	3355.6	3005.5	2787.1	2774.5	2889.3	3250.7	3505.5	3344.5	3058.0	3005.5
27.5°	3613.4	3096.7	2773.4	2760.7	2857.5	3307.0	3701.4	3671.1	3391.2	3301.7
30°	3812.4	3186.1	2814.3	2785.2	2889.3	3346.0	3858.7	3948.6	3656.6	3597.4
32.5°	3955.0	3291.7	2880.9	2838.8	2978.8	3413.4	3979.9	4202.5	3902.3	3812.4
35°	4063.7	3406.5	2988.3	2919.1	3102.0	3515.5	4093.5	4473.0	4163.5	4065.2
37.5°	4165.4	3567.5	3156.3	3073.6	3295.2	3680.0	4213.6	4779.8	4455.8	4338.3
40°	4307.3	3749.9	3415.2	3341.8	3619.9	3904.1	4363.6	5099.6	4788.2	4640.5
42.5°	4449.3	3945.8	3680.4	3700.3	4025.0	4176.5	4557.1	5437.7	5116.4	4958.8
45°	4578.9	4147.8	4057.9	4149.8	4401.1	4475.2	4749.6	5633.2	5378.4	5226.2
47.5°	4694.4	4400.3	4433.1	4677.6	4828.8	4745.7	4893.4	5801.9	5573.5	5439.2
50°	4828.8	4727.0	4927.8	5273.6	5321.1	4990.6	5024.2	6001.6	5801.5	5693.6
52.5°	4975.6	5071.3	5475.6	5780.4	5765.2	5256.4	5155.8	6225.3	6114.0	6012.7
55°	5142.4	5349.3	5958.0	6254.8	6241.8	5553.2	5373.8	6501.9	6505.7	6414.0
57.5°	5389.9	5588.8	6285.4	6638.5	6660.3	5896.0	5743.4	6811.8	6860.0	6798.8
59°	5567.4	5744.1	6415.1	6798.8	6887.5	6161.1	6013.4	6991.5	6959.8	6904.0
60°	5699.0	5842.9	6479.4	6882.6	7019.5	6340.9	6212.8	7097.2	6971.7	6904.0
62.5°	6024.5	6057.9	6595.3	6977.4	7171.3	6740.2	6773.6	7277.0	6889.4	6778.9
65°	6176.4	6193.6	6593.8	6807.6	7024.4	7051.3	7282.3	7282.3	6688.6	6518.8
67.5°	6112.9	6029.9	6266.7	6244.4	6461.0	6866.5	7473.5	7015.3	6304.5	6085.0
70°	5596.5	5277.0	5171.9	5181.5	5347.1	5972.5	7094.9	6229.5	5577.7	5321.1
72.5°	4656.6	3890.3	3630.6	3927.1	3970.3	4590.0	6046.3	4691.4	4113.3	3872.8
75°	3745.4	2742.4	2320.1	2633.0	2706.4	3359.1	4677.2	2921.8	2402.7	2215.2
77.5°	2690.8	1968.5	1664.8	1643.0	1737.9	2130.4	3318.8	1470.4	1226.4	1144.5
80°	1528.6	1295.6	1395.1	1316.3	1364.2	1332.0	1576.8	644.9	528.3	493.8
82.5°	922.7	765.8	829.4	690.5	873.7	760.9	607.5	206.5	179.4	170.6
85°	600.2	418.5	218.1	146.2	301.1	486.2	135.8	56.3	43.2	34.5
87.5°	207.0	106.8	10.7	4.6	32.1	90.6	4.9	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

(END OF REPORT)