

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: P382834

Luminaire Tested: **GLEON-SA2A-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA 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: 6586.1 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

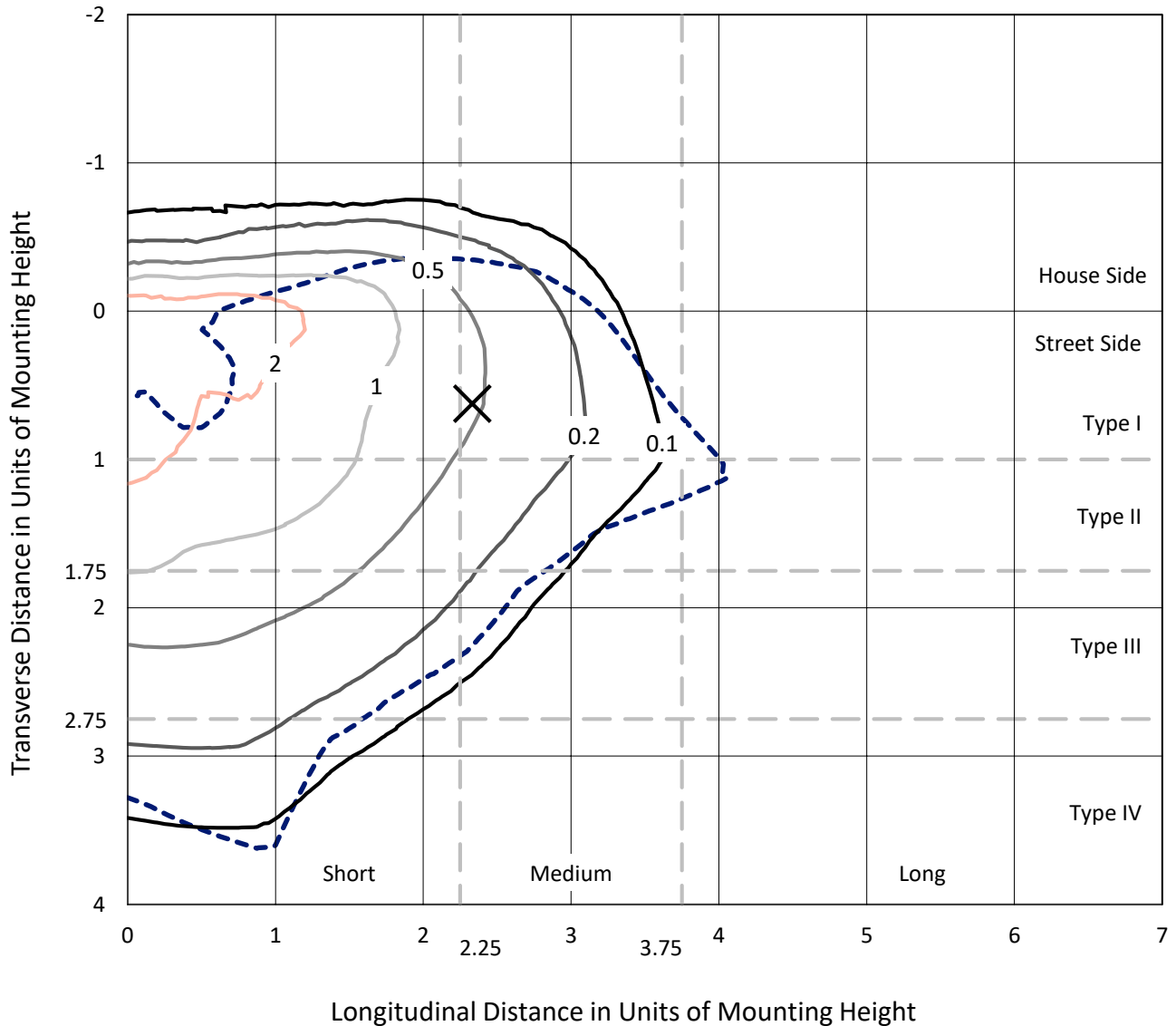




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Iso-Footcandle Lines of Horizontal Illumination

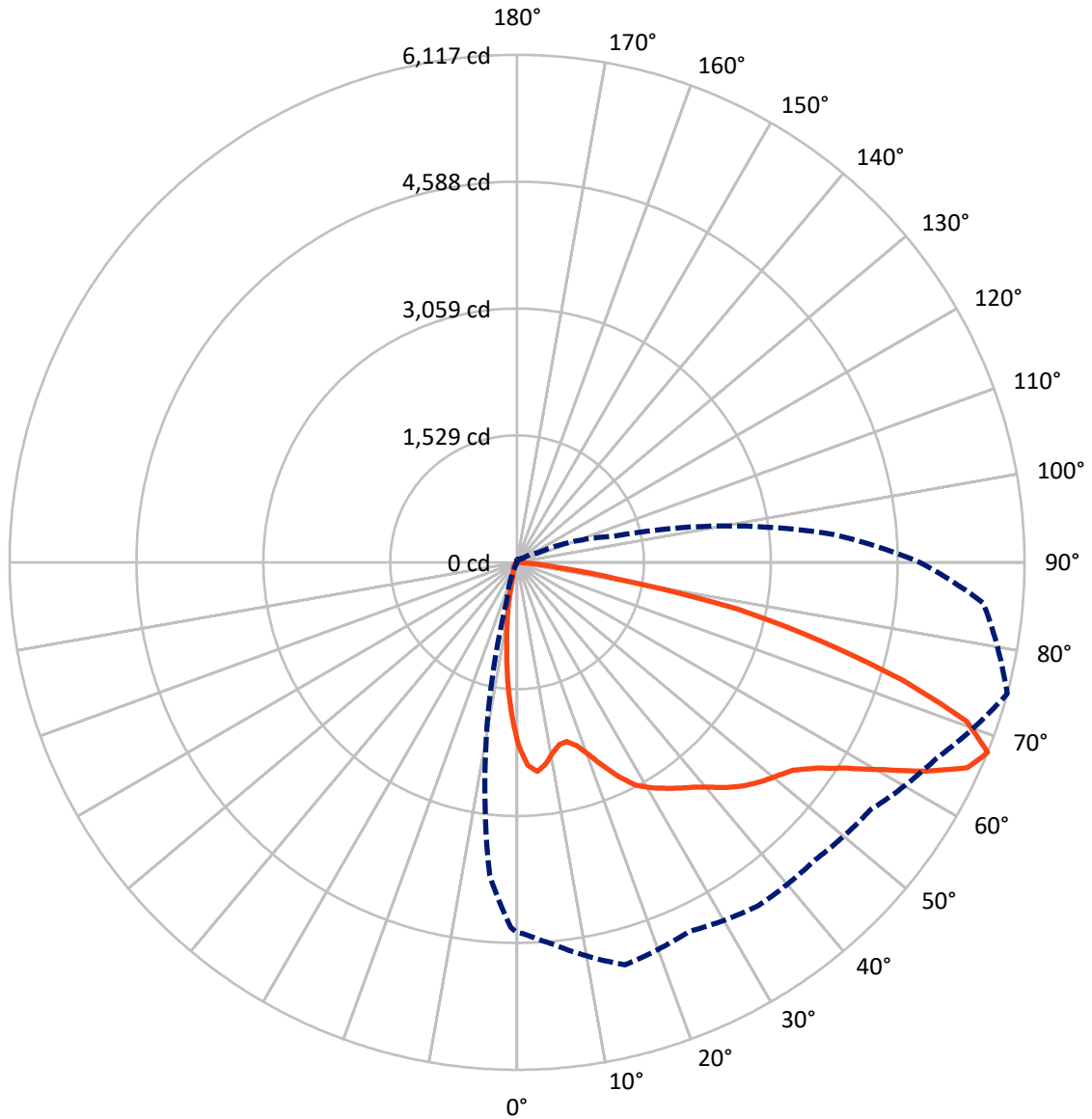
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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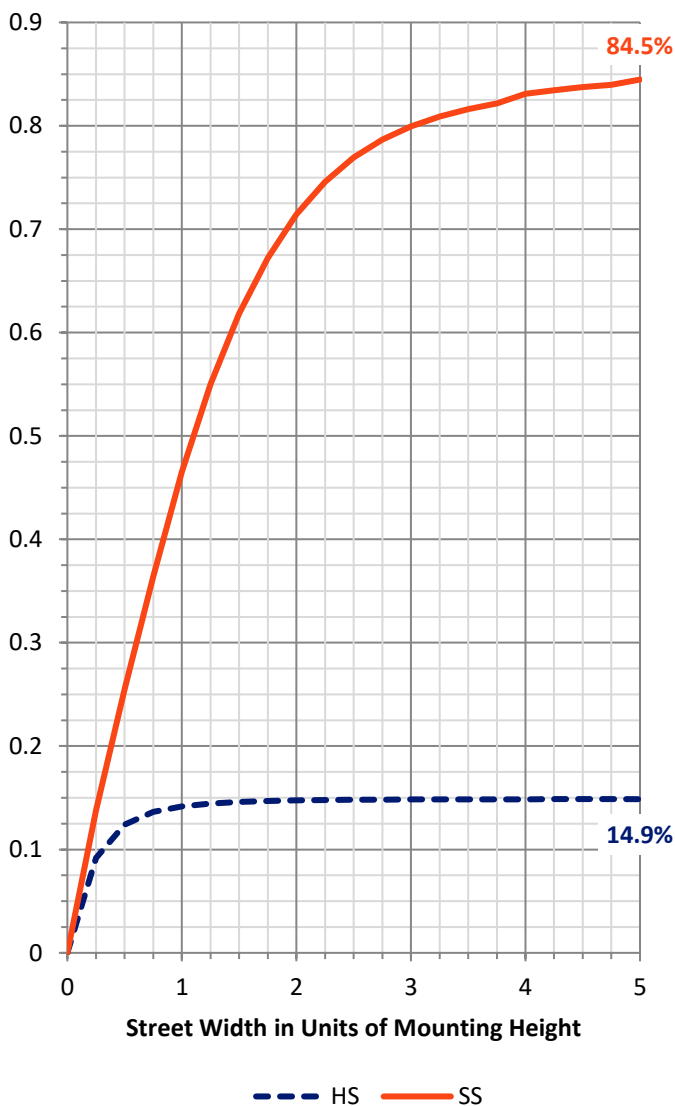
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	988.3	0.0	988.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	5597.7	0.0	5597.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	6586.1	0.0	6586.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.6	2.5
10°-20°	330.0	5.0
20°-30°	466.9	7.1
30°-40°	686.4	10.4
40°-50°	986.6	15.0
50°-60°	1388.9	21.1
60°-70°	1622.1	24.6
70°-80°	827.6	12.6
80°-90°	109.9	1.7
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°	6586.1	100.0
0°-180°	6586.1	100.0

Coefficient of Utilization

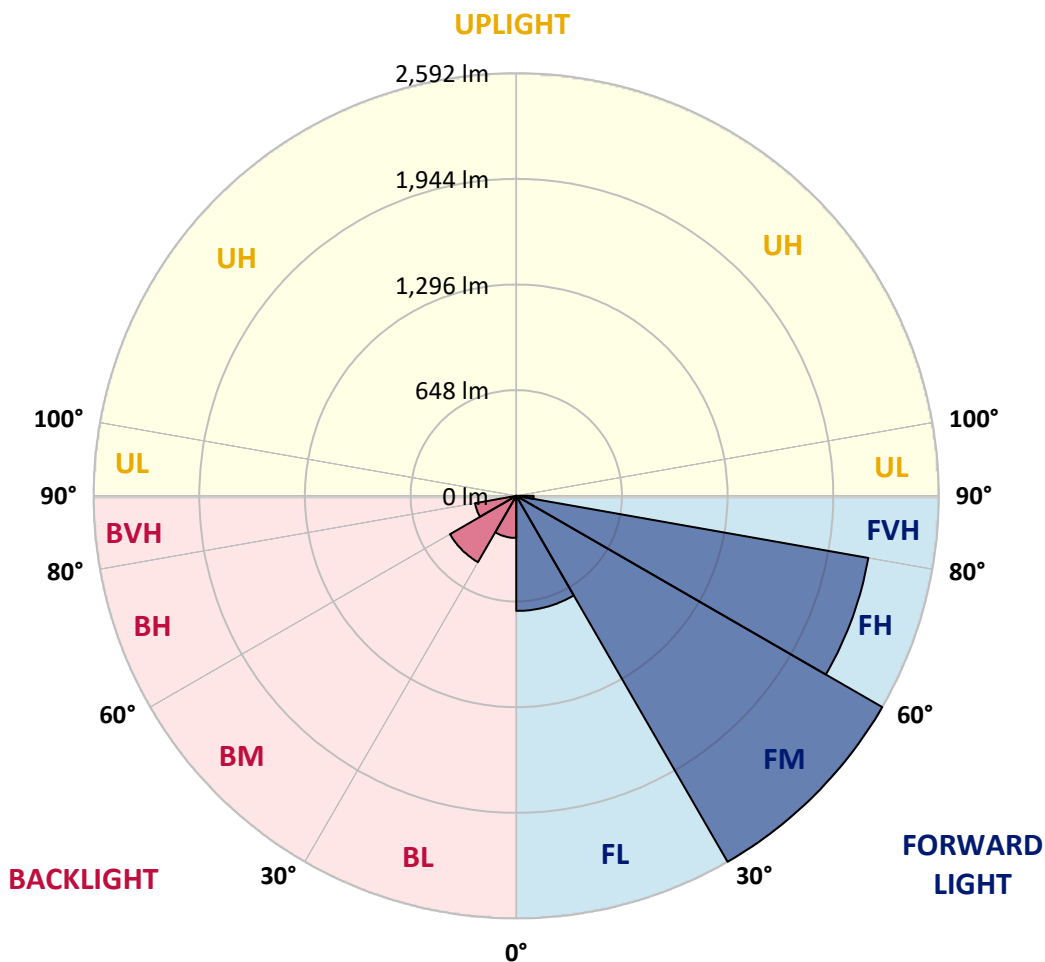


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	706.0	10.7			
FM (30°-60°)	2592.1	39.4			
FH (60°-80°)	2193.0	33.3			G2/5000
FVH (80°-90°)	106.6	1.6			G2/225
BL (0°-30°)	258.5	3.9	B1/500		
BM (30°-60°)	469.8	7.1	B1/1000		
BH (60°-80°)	256.7	3.9	B1/500		G1/500
BVH (80°-90°)	3.3	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5
2.5°	2395.1	2398.9	2418.2	2463.1	2512.1	2515.9	2549.0	2514.9	2503.4	2448.5	2391.7
5°	2413.3	2427.6	2494.0	2626.0	2740.5	2777.3	2803.5	2736.8	2666.6	2532.4	2389.2
7.5°	2267.6	2291.5	2396.0	2643.8	2848.5	2938.9	2956.1	2851.6	2679.7	2458.8	2243.5
10°	2081.0	2108.5	2234.5	2538.9	2820.1	2975.1	2998.8	2861.9	2614.8	2339.6	2085.9
12.5°	1930.0	1962.1	2091.0	2421.0	2722.4	2894.0	2940.8	2827.2	2558.6	2255.1	1978.3
15°	1860.4	1897.2	2032.6	2344.9	2614.1	2749.3	2787.9	2738.9	2527.4	2241.7	1953.4
17.5°	1900.4	1940.2	2080.1	2351.5	2512.5	2570.1	2601.3	2621.4	2527.4	2322.4	2026.4
20°	2064.1	2107.2	2255.1	2417.9	2428.2	2406.7	2440.1	2510.2	2556.7	2476.0	2201.7
22.5°	2290.6	2341.2	2508.1	2531.8	2387.0	2305.6	2310.0	2420.1	2610.1	2670.7	2445.0
25°	2566.7	2628.5	2798.2	2701.5	2404.2	2245.4	2243.8	2345.8	2662.2	2865.6	2716.2
27.5°	2840.9	2908.9	3058.1	2908.7	2475.0	2234.5	2231.3	2323.4	2713.0	3039.1	3012.3
30°	3070.9	3137.1	3265.5	3058.7	2551.4	2260.0	2245.0	2347.4	2743.3	3151.7	3228.2
32.5°	3258.1	3311.1	3415.1	3162.0	2633.2	2309.7	2277.2	2411.7	2794.8	3246.9	3426.6
35°	3464.1	3519.9	3561.3	3260.3	2724.9	2381.1	2334.6	2513.7	2874.0	3343.6	3644.0
37.5°	3698.9	3754.5	3749.5	3350.1	2841.3	2499.3	2469.7	2675.3	2997.3	3439.4	3886.8
40°	3928.9	3985.6	3945.1	3448.4	2978.0	2694.3	2672.5	2918.1	3162.3	3562.0	4171.3
42.5°	4144.2	4205.6	4118.8	3541.4	3140.8	2940.2	2977.6	3230.6	3368.8	3713.0	4416.5
45°	4317.6	4380.3	4264.5	3631.8	3312.4	3238.4	3351.1	3577.0	3617.2	3840.6	4582.2
47.5°	4443.7	4502.9	4365.7	3722.4	3532.1	3603.1	3799.4	3940.1	3841.5	3951.3	4699.8
50°	4524.2	4570.4	4395.3	3835.6	3820.3	4028.8	4266.5	4335.0	4052.7	4051.2	4842.7
52.5°	4575.3	4596.3	4417.1	3953.9	4121.1	4492.0	4723.8	4745.3	4270.2	4161.0	5035.2
55°	4751.5	4768.4	4571.8	4097.0	4369.7	4897.9	5137.5	5117.5	4516.3	4375.9	5262.3
57.5°	5052.3	5070.1	4891.6	4302.9	4570.9	5148.8	5437.4	5473.2	4804.9	4678.0	5505.6
60°	5203.3	5236.4	5172.8	4563.7	4766.0	5309.1	5641.7	5756.2	5165.6	5076.1	5741.5
62.5°	5066.4	5114.5	5206.8	4853.0	4959.7	5397.4	5705.4	5857.6	5535.0	5540.0	5886.9
65°	4793.1	4831.5	4988.1	5011.4	5072.0	5386.5	5548.1	5716.0	5761.2	5966.2	5879.1
67.5°	4463.0	4477.4	4610.2	5023.9	4909.2	5058.3	5075.7	5199.9	5582.4	6117.2	5642.9
70°	3987.9	3995.6	4111.7	4606.2	4218.7	4251.5	4225.6	4250.8	4799.3	5749.3	5046.8
72.5°	3209.5	3229.1	3394.1	3825.3	3073.4	2978.9	3182.3	3171.1	3696.1	4857.4	3748.3
75°	2363.0	2397.0	2646.2	3081.2	2157.1	1951.2	2099.7	2139.3	2627.5	3757.3	2344.0
77.5°	1654.5	1679.8	1921.2	2265.1	1561.2	1395.2	1341.5	1388.7	1734.4	2718.1	1180.9
80°	953.2	962.5	1116.6	1307.9	1052.0	1203.7	1090.4	1122.9	1039.2	1209.2	507.9
82.5°	623.7	625.3	685.4	778.4	655.2	761.3	563.5	720.4	639.2	485.8	165.3
85°	336.9	338.8	397.5	552.5	370.9	209.7	123.2	253.0	395.3	111.4	45.3
87.5°	37.2	34.0	119.8	200.9	102.9	19.0	6.5	28.4	63.3	7.2	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°	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5
2.5°	2362.7	2336.8	2272.2	2203.9	2149.0	2097.5	2045.7	1982.3	1933.4	1923.4	1907.2
5°	2312.2	2230.1	2094.7	1958.7	1849.1	1711.0	1623.3	1554.9	1488.1	1484.1	1470.7
7.5°	2135.6	2027.6	1837.0	1648.8	1494.8	1363.0	1230.2	1141.2	1071.4	1046.7	1032.1
10°	1965.8	1844.5	1606.5	1391.8	1254.2	1137.8	1044.3	951.3	867.0	809.0	782.8
12.5°	1847.3	1713.1	1450.8	1265.7	1167.1	1056.7	942.5	826.5	729.4	659.5	616.8
15°	1801.4	1658.2	1398.6	1215.9	1094.1	954.4	808.4	675.7	568.2	504.8	466.4
17.5°	1856.0	1689.5	1394.6	1155.0	984.9	811.2	649.8	493.3	391.9	343.8	319.1
20°	1994.5	1788.7	1393.0	1080.4	855.2	641.5	440.2	324.5	263.0	236.1	224.6
22.5°	2190.4	1915.3	1405.5	1006.8	720.1	458.3	303.9	238.4	206.8	192.5	185.9
25°	2442.5	2093.1	1440.7	940.0	593.1	342.0	236.8	199.6	177.6	166.3	161.6
27.5°	2711.2	2297.8	1495.7	882.0	489.8	272.7	202.8	170.9	155.1	147.3	142.9
30°	2932.7	2534.9	1551.2	817.4	414.9	237.7	185.7	156.0	137.6	132.6	128.6
32.5°	3126.5	2714.3	1590.5	759.0	366.0	211.2	167.9	139.5	127.0	117.3	112.9
35°	3327.0	2863.8	1589.3	718.2	332.3	191.2	152.9	124.8	109.8	98.6	95.1
37.5°	3544.2	3032.6	1562.1	683.3	317.6	175.3	144.5	117.0	102.0	90.8	86.4
40°	3798.5	3209.7	1534.4	650.5	313.6	162.6	138.5	110.8	94.8	83.9	79.6
42.5°	4046.2	3369.5	1510.0	626.2	296.0	162.3	133.2	106.1	89.2	78.6	73.6
45°	4244.3	3518.3	1505.4	611.5	277.7	167.9	130.4	102.9	84.9	74.2	69.6
47.5°	4409.0	3679.9	1535.3	601.2	260.2	153.1	137.3	100.8	80.8	70.5	65.2
50°	4604.9	3878.3	1605.8	584.4	241.8	137.9	157.2	101.4	77.4	66.8	61.1
52.5°	4878.2	4152.8	1709.4	555.9	216.5	123.9	154.7	102.0	73.6	62.7	57.1
55°	5184.6	4495.7	1820.8	508.8	181.3	105.5	132.6	97.6	66.4	58.3	53.0
57.5°	5506.6	4806.8	1886.9	452.7	144.1	91.1	106.1	89.0	58.7	52.4	49.0
60°	5557.1	4925.1	1856.7	383.7	114.5	79.3	78.6	90.5	52.4	46.2	43.7
62.5°	5431.4	4776.5	1710.3	322.3	95.8	69.6	64.6	78.9	47.4	41.2	38.7
65°	5189.7	4375.0	1473.2	290.5	89.0	59.6	53.7	55.5	41.5	35.9	33.7
67.5°	4853.3	3839.0	1209.6	272.4	87.9	51.1	45.8	42.1	35.9	31.2	29.3
70°	4165.7	3198.2	965.0	262.4	85.5	43.0	38.7	34.3	30.0	26.5	25.0
72.5°	3065.9	2266.3	750.6	251.4	86.1	34.3	33.7	28.4	24.0	20.6	19.9
75°	1771.4	1294.8	492.3	203.7	82.1	26.5	28.0	19.9	16.9	14.3	14.3
77.5°	944.1	789.7	187.5	84.9	30.0	16.9	15.9	11.8	10.6	8.8	8.4
80°	411.6	347.6	56.5	23.8	16.6	9.0	6.0	5.3	4.7	3.7	3.4
82.5°	145.7	125.8	18.4	11.6	7.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.1	23.8	0.0	2.8	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°	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5
2.5°	1874.1	1867.3	1826.7	1828.3	1835.4	1845.8	1821.4	1832.6	1862.9	1891.9	1902.8
5°	1449.2	1450.8	1426.1	1441.4	1455.1	1464.5	1425.2	1425.8	1449.8	1482.6	1499.7
7.5°	1021.2	1018.6	1019.9	1056.4	1082.3	1063.5	1078.3	1027.4	1030.5	1053.9	1036.4
10°	759.0	724.7	705.4	732.8	761.3	750.9	725.7	709.2	720.7	746.6	744.7
12.5°	596.6	547.2	518.2	498.6	521.9	502.6	502.0	487.7	472.0	474.8	516.4
15°	448.6	412.8	378.5	346.9	346.3	339.7	306.4	268.9	265.8	267.7	289.2
17.5°	308.5	296.4	282.4	255.2	248.1	220.6	188.2	173.2	165.6	169.1	176.2
20°	216.9	212.1	213.7	199.1	188.7	162.6	143.6	137.6	136.4	139.7	143.2
22.5°	179.7	171.3	170.4	163.8	153.5	134.4	124.2	120.7	119.1	122.3	124.8
25°	157.2	148.9	145.4	141.3	130.4	117.3	111.0	108.0	106.4	108.2	109.8
27.5°	138.5	130.7	127.6	124.8	114.2	104.8	99.9	97.1	95.8	96.4	98.0
30°	124.5	117.7	113.6	110.1	101.1	94.6	90.2	87.4	86.1	86.1	87.7
32.5°	109.8	106.1	102.4	98.0	89.5	85.1	80.8	77.7	76.5	76.8	78.0
35°	91.4	90.2	91.1	87.0	79.8	76.1	71.7	68.3	67.4	67.7	68.9
37.5°	81.1	75.5	78.9	76.8	72.7	67.7	62.0	59.0	57.4	58.3	59.0
40°	74.5	67.7	65.2	67.4	66.8	58.7	53.7	50.6	49.3	49.7	50.2
42.5°	68.9	60.8	55.2	54.9	58.7	51.1	45.8	43.0	41.5	41.5	42.1
45°	63.6	54.9	48.1	42.8	49.3	43.4	38.4	35.9	34.0	34.0	34.3
47.5°	59.6	49.9	41.8	34.9	37.2	35.6	31.5	29.0	27.1	27.1	27.5
50°	55.8	44.9	36.2	29.3	27.8	29.3	25.6	22.7	21.5	21.2	21.8
52.5°	51.8	40.0	30.9	25.0	21.8	22.2	19.9	18.1	16.6	16.6	17.1
55°	47.7	35.9	26.8	21.2	18.1	16.6	15.9	14.6	13.4	13.4	14.1
57.5°	43.7	31.5	22.7	17.5	14.3	13.1	13.1	12.2	11.3	11.3	11.8
60°	40.0	27.1	18.7	14.3	11.3	10.9	11.3	10.3	9.7	9.7	10.3
62.5°	35.6	23.1	15.3	11.8	9.0	8.8	9.7	9.0	8.4	8.4	9.0
65°	30.3	19.7	12.2	9.0	6.9	6.9	8.1	7.5	6.9	6.9	7.5
67.5°	25.6	16.6	9.3	6.5	5.0	5.3	6.9	6.2	6.0	6.0	6.5
70°	21.2	12.8	6.5	4.1	2.8	4.1	5.3	5.3	5.3	5.3	6.0
72.5°	15.9	8.8	3.7	1.6	1.2	2.8	4.4	5.0	4.7	4.7	5.6
75°	10.3	5.0	1.2	0.0	0.0	1.6	3.4	4.1	4.1	3.7	4.7
77.5°	6.0	1.6	0.0	0.0	0.0	0.0	2.1	1.9	1.6	1.2	2.1
80°	1.6	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°	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5
2.5°	1946.8	1983.6	2035.4	2090.3	2174.9	2242.0	2307.8	2364.3	2386.1	2395.1
5°	1540.9	1594.9	1670.7	1768.1	1920.6	2057.9	2197.1	2337.1	2398.0	2413.3
7.5°	1105.7	1174.7	1271.0	1393.0	1571.8	1749.6	1944.0	2149.6	2243.8	2267.6
10°	818.4	902.6	1013.1	1141.6	1312.3	1495.0	1706.9	1941.8	2049.5	2081.0
12.5°	580.6	694.5	842.4	998.7	1146.5	1309.8	1524.1	1783.0	1896.0	1930.0
15°	341.0	451.1	626.2	835.5	1024.9	1190.2	1408.0	1701.6	1826.1	1860.4
17.5°	195.6	250.5	382.8	616.2	873.2	1102.3	1371.5	1721.9	1868.5	1900.4
20°	149.4	166.9	220.6	396.8	696.1	1015.9	1371.5	1836.6	2017.4	2064.1
22.5°	130.7	143.6	165.3	236.8	512.3	923.2	1387.4	2002.6	2238.8	2290.6
25°	116.1	127.6	146.3	178.1	349.4	813.1	1425.2	2206.4	2499.6	2566.7
27.5°	103.9	114.8	131.6	156.0	238.9	680.1	1476.0	2445.4	2787.3	2840.9
30°	93.0	103.3	118.6	135.7	184.4	529.4	1519.4	2670.7	3013.2	3070.9
32.5°	82.7	92.0	105.7	118.6	151.0	391.5	1524.1	2849.0	3200.7	3258.1
35°	73.0	81.4	93.9	103.9	125.1	309.2	1451.4	3003.9	3388.2	3464.1
37.5°	63.6	71.7	82.7	90.2	110.1	252.1	1340.3	3176.4	3628.8	3698.9
40°	54.9	62.0	73.3	78.3	104.2	193.8	1219.6	3357.3	3864.6	3928.9
42.5°	46.8	53.7	64.6	74.2	91.4	144.8	1089.2	3527.0	4076.7	4144.2
45°	39.0	46.2	57.1	78.6	75.8	108.2	949.7	3639.6	4244.3	4317.6
47.5°	31.5	39.6	54.6	74.9	60.6	79.6	839.2	3746.4	4371.3	4443.7
50°	25.2	33.3	61.5	66.8	49.7	60.8	793.1	3841.8	4454.6	4524.2
52.5°	20.6	28.0	58.0	51.1	41.5	50.2	818.0	3996.6	4531.6	4575.3
55°	17.1	22.2	34.9	35.6	35.2	42.8	848.9	4218.7	4731.0	4751.5
57.5°	15.0	17.8	24.3	27.5	29.6	38.1	849.6	4537.6	5039.6	5052.3
60°	12.8	15.6	20.3	22.2	25.6	34.0	818.6	4649.0	5161.0	5203.3
62.5°	11.3	13.7	16.9	18.4	21.5	30.6	746.3	4487.6	4994.3	5066.4
65°	10.0	12.5	14.1	15.6	19.0	27.5	627.1	4165.0	4717.9	4793.1
67.5°	8.8	10.9	12.5	14.1	17.1	24.3	461.8	3790.4	4400.6	4463.0
70°	7.8	9.7	11.3	12.5	15.0	20.6	280.2	3216.3	3962.0	3987.9
72.5°	7.5	8.8	10.3	11.3	13.1	18.1	142.0	2363.6	3167.4	3209.5
75°	6.5	7.8	9.3	10.0	11.6	15.6	57.8	1552.4	2295.3	2363.0
77.5°	5.3	7.2	8.4	9.0	10.0	12.8	29.3	992.1	1610.8	1654.5
80°	1.9	5.3	7.2	7.5	8.4	9.3	19.4	543.2	934.4	953.2
82.5°	0.0	3.4	5.6	5.3	6.0	7.2	12.5	258.3	616.8	623.7
85°	0.0	1.6	4.4	3.4	2.5	5.0	4.4	56.5	323.5	336.9
87.5°	0.0	0.0	0.3	1.6	1.2	1.9	0.7	0.3	29.3	37.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)