

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: P648273

Luminaire Tested: **GALN-SA2B-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-835-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4953.2 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

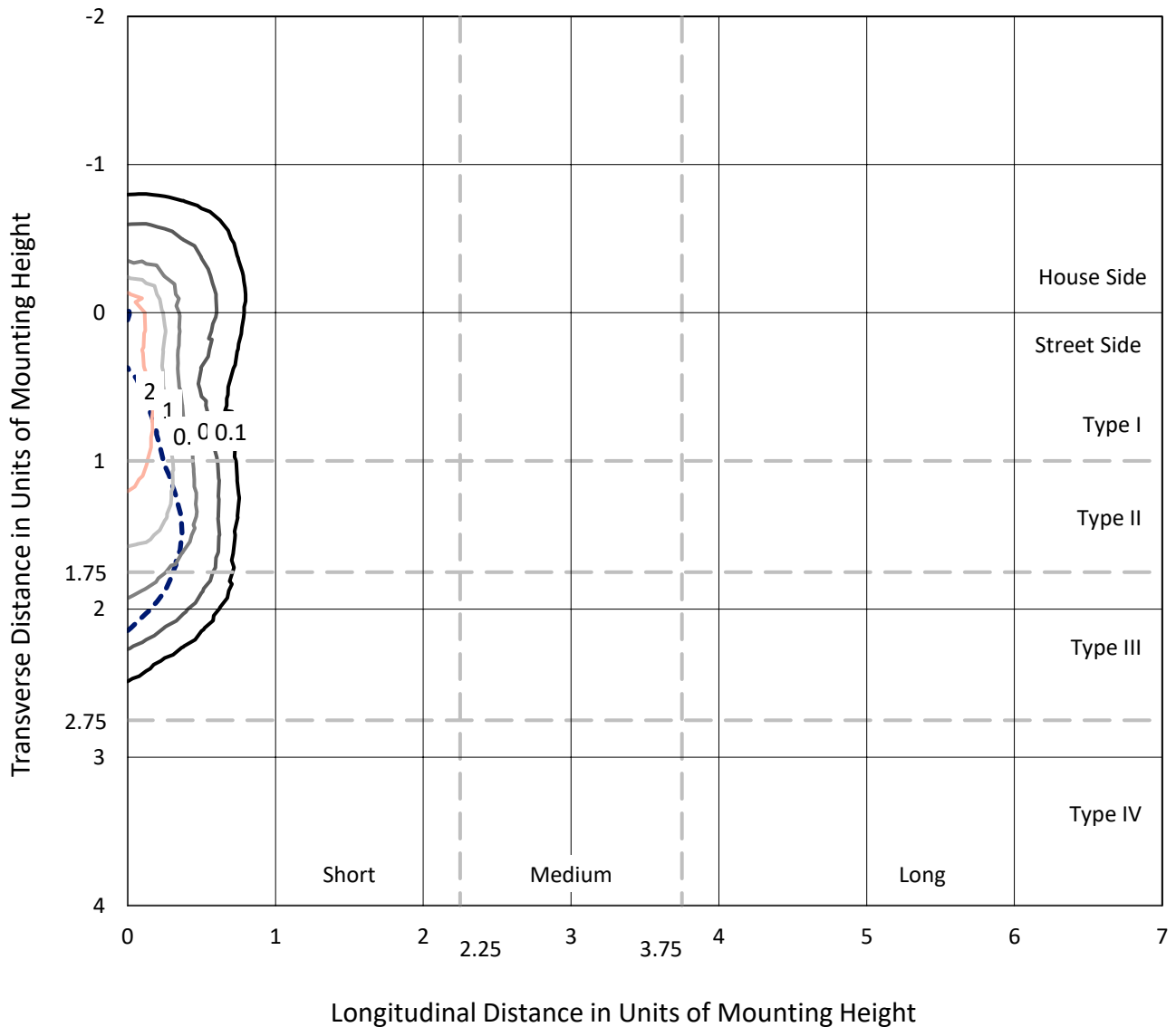
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

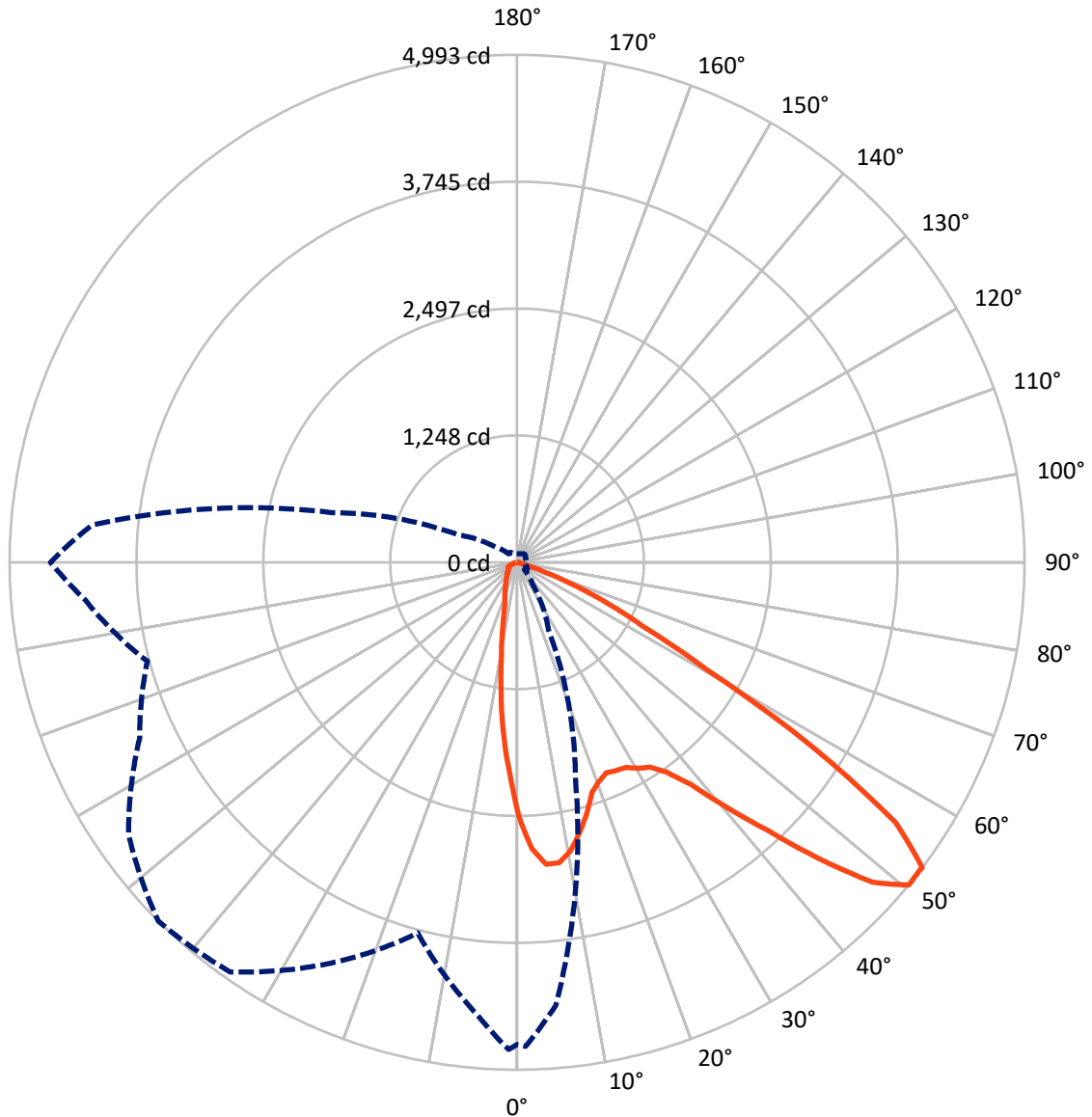
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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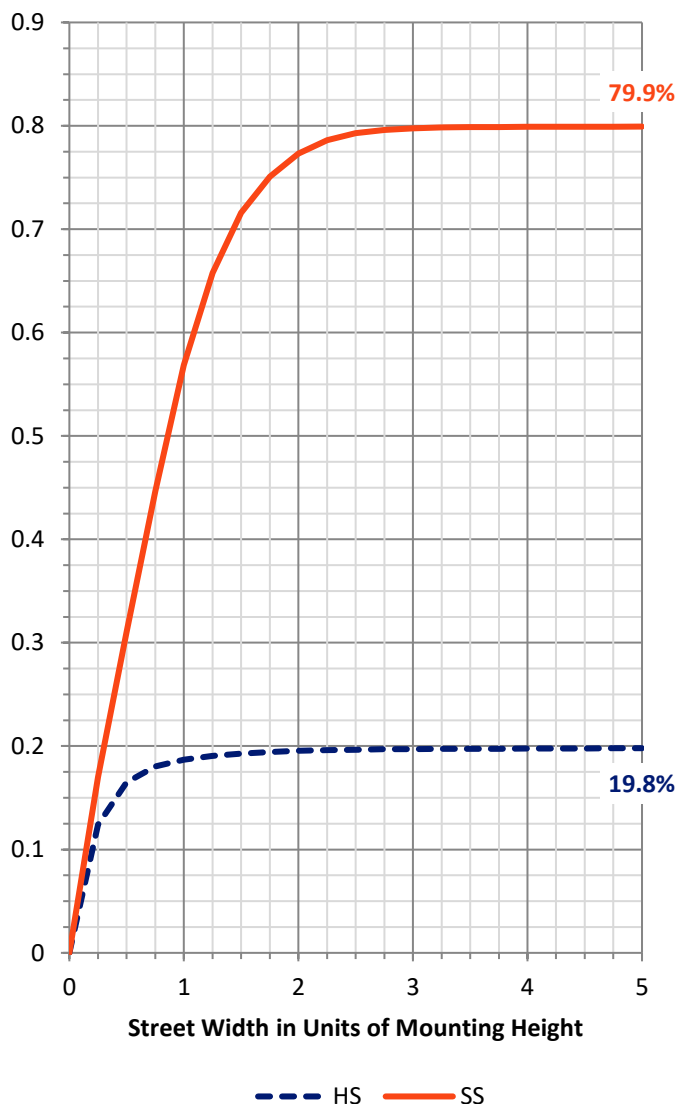
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	992.1	0.0	992.1
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	3961.1	0.0	3961.1
	% Fixture	80.0	0.0	80.0
Total	Lumens	4953.2	0.0	4953.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.1	3.7
10°-20°	363.9	7.3
20°-30°	546.7	11.0
30°-40°	820.5	16.6
40°-50°	1153.2	23.3
50°-60°	1243.9	25.1
60°-70°	577.6	11.7
70°-80°	54.3	1.1
80°-90°	10.0	0.2
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°	4953.2	100.0
0°-180°	4953.2	100.0

Coefficient of Utilization

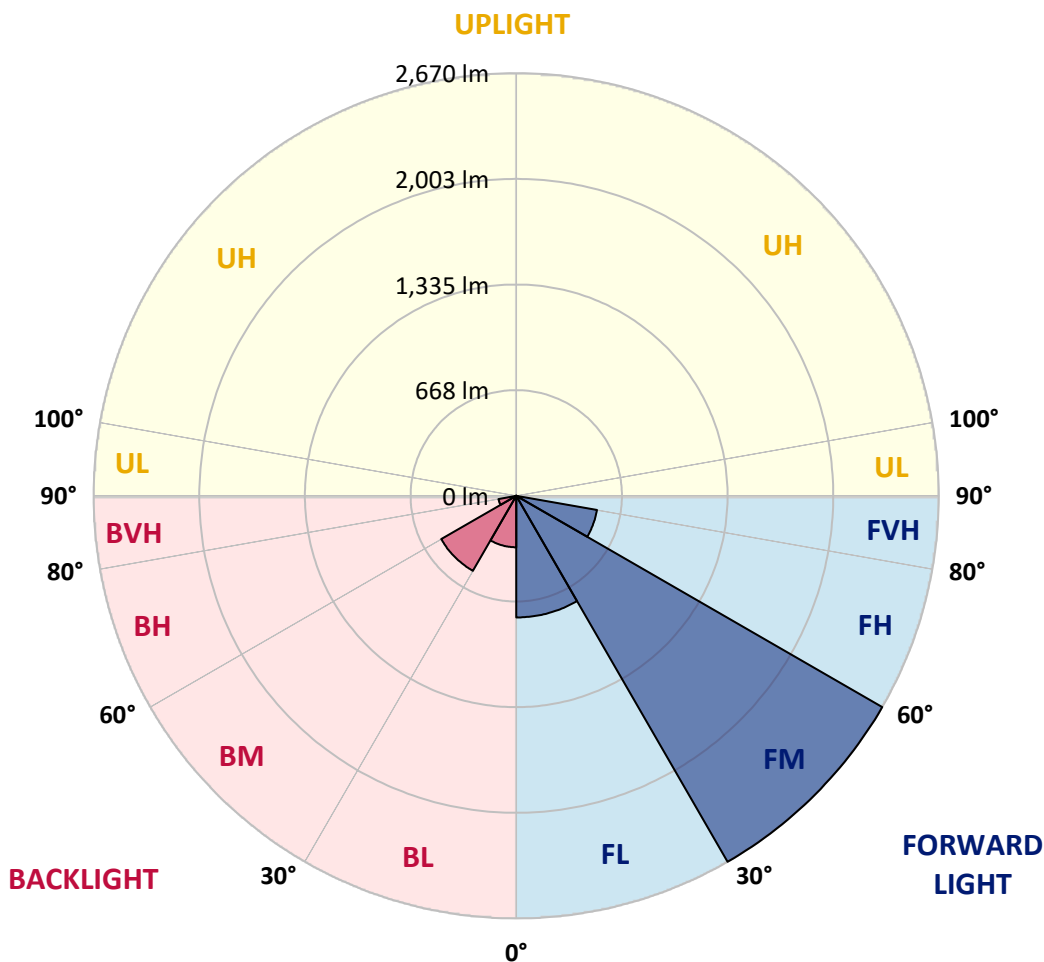


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	768.5	15.5			
FM (30°-60°)	2670.2	53.9			
FH (60°-80°)	518.0	10.5			G0/660
FVH (80°-90°)	4.5	0.1			G0/10
BL (0°-30°)	325.2	6.6	B1/500		
BM (30°-60°)	547.5	11.1	B1/1000		
BH (60°-80°)	113.9	2.3	B1/500		G1/500
BVH (80°-90°)	5.5	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-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9
2.5°	2611.1	2570.9	2519.8	2477.6	2414.6	2287.8	2253.5	2212.2	2177.8	2131.6	2066.7
5°	2374.4	2361.5	2338.0	2178.8	2063.8	1910.4	1784.7	1731.6	1661.8	1604.8	1563.6
7.5°	2193.5	2142.4	2067.7	1907.5	1723.8	1559.7	1420.0	1338.5	1246.1	1214.7	1158.7
10°	1999.9	2011.7	1901.7	1676.6	1454.5	1321.8	1235.3	1156.7	1073.2	1018.1	938.5
12.5°	1938.0	1899.6	1815.2	1537.0	1347.4	1223.5	1118.4	1021.1	932.6	844.2	767.5
15°	1978.3	1919.3	1801.4	1507.5	1264.8	1110.5	978.8	847.1	765.5	652.6	572.9
17.5°	2122.8	2075.6	1917.3	1539.0	1222.6	1002.4	806.9	671.2	546.4	444.2	403.9
20°	2363.6	2296.7	2098.2	1579.3	1159.6	871.7	654.5	487.4	369.5	326.3	303.6
22.5°	2599.4	2563.0	2312.4	1656.9	1103.6	755.8	491.4	328.2	276.2	268.3	253.5
25°	3048.5	2939.5	2639.6	1797.5	1060.4	646.7	370.5	264.3	233.9	228.0	230.0
27.5°	3315.8	3224.4	2942.4	1890.8	1012.3	563.1	313.5	242.7	222.1	209.3	204.4
30°	3572.4	3466.2	3092.8	1945.8	909.1	474.7	278.1	232.9	228.0	209.3	203.4
32.5°	3769.8	3665.7	3309.9	2028.4	866.8	417.7	228.9	181.8	169.0	167.1	184.8
35°	4072.5	3961.5	3495.7	2073.6	834.4	388.2	198.5	162.2	147.4	141.5	142.5
37.5°	4354.6	4278.9	3667.7	2091.3	800.0	379.4	177.9	145.5	132.6	128.7	127.8
40°	4590.5	4421.4	3830.7	2110.0	785.2	362.6	165.1	132.6	123.8	117.9	117.9
42.5°	4698.5	4526.6	4013.6	2099.1	781.3	336.1	165.1	121.8	114.9	109.1	108.1
45°	4675.0	4605.2	4095.2	2094.3	781.3	309.6	150.3	118.9	109.1	101.2	99.3
47.5°	4735.9	4644.5	4197.3	2114.9	765.5	290.9	126.8	124.8	103.2	93.3	91.4
50°	4746.7	4764.4	4375.2	2222.0	731.2	267.3	99.3	122.9	99.3	84.5	82.5
52°	4817.5	4707.4	4429.3	2279.0	694.8	249.6	83.5	105.2	95.3	78.6	76.7
52.5°	4720.2	4792.0	4442.0	2299.7	698.7	237.8	80.6	103.2	93.3	78.6	73.7
55°	4611.1	4679.9	4390.0	2343.9	640.7	186.7	62.9	74.7	84.5	68.8	65.9
57.5°	4007.7	4077.5	3815.1	2146.4	521.9	131.7	52.1	56.0	74.7	63.9	60.9
60°	3562.5	3512.4	3201.8	1790.6	370.5	73.7	41.3	43.2	81.6	59.0	58.0
62.5°	3255.9	3148.8	2676.1	1382.7	226.1	49.2	32.4	33.4	62.9	55.0	55.0
65°	2408.7	2288.9	1777.8	836.3	111.0	34.4	24.6	26.5	39.3	47.1	47.1
67.5°	1374.9	1328.7	859.0	377.4	46.2	21.6	18.6	20.7	30.5	38.3	36.3
70°	631.9	567.0	330.2	79.6	21.6	14.7	14.7	16.7	24.6	28.5	26.5
72.5°	184.8	174.9	80.6	12.8	8.8	8.8	9.9	12.8	18.6	21.6	19.7
75°	13.8	8.8	5.9	3.9	3.9	5.9	7.8	12.8	18.6	20.7	16.7
77.5°	1.0	2.0	1.0	1.0	3.0	5.9	8.8	15.7	24.6	25.5	18.6
80°	1.0	1.0	0.0	1.0	3.0	5.9	9.9	17.7	27.5	29.5	15.7
82.5°	0.0	0.0	0.0	1.0	3.9	7.8	11.8	18.6	25.5	31.5	16.7
85°	0.0	0.0	0.0	1.0	5.9	10.8	13.8	4.9	3.0	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°	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9
2.5°	2112.9	2087.4	2077.5	2086.4	2083.4	2080.5	2134.5	2122.8	2120.8	2138.5	2134.5
5°	1586.2	1540.9	1664.8	1614.7	1666.8	1698.2	1704.1	1707.0	1743.4	1705.1	1755.2
7.5°	1130.2	1141.9	1141.0	1174.4	1234.3	1287.4	1318.9	1294.3	1292.3	1287.4	1265.8
10°	903.2	882.5	878.6	870.7	889.4	934.6	973.0	942.5	920.8	950.3	941.5
12.5°	738.1	709.6	693.8	662.3	663.4	693.8	693.8	693.8	715.4	732.2	744.9
15°	566.0	542.5	542.5	511.1	504.2	505.1	520.9	522.8	557.3	567.0	572.0
17.5°	396.0	383.3	398.0	410.8	402.9	404.9	410.8	412.7	417.7	413.7	423.6
20°	304.7	302.7	306.6	329.3	345.9	355.8	348.9	339.0	333.2	319.4	319.4
22.5°	258.5	262.4	269.3	287.9	309.6	315.5	307.6	285.0	267.3	265.4	266.3
25°	230.0	233.9	244.7	256.5	268.3	278.1	270.3	253.5	243.7	234.9	234.9
27.5°	212.3	214.2	220.1	228.9	238.8	246.6	243.7	234.9	224.1	220.1	211.3
30°	198.5	201.5	208.4	210.3	219.2	223.1	218.1	216.2	209.3	204.4	201.5
32.5°	191.6	190.7	195.6	197.6	198.5	201.5	195.6	198.5	197.6	189.6	186.7
35°	144.5	152.3	165.1	175.9	178.8	182.8	181.8	177.9	167.1	158.2	147.4
37.5°	129.7	134.7	141.5	150.3	162.2	167.1	165.1	155.3	142.5	136.6	134.7
40°	119.9	122.9	128.7	134.7	146.4	155.3	148.4	139.5	129.7	124.8	121.8
42.5°	111.0	112.0	114.9	120.9	129.7	143.4	131.7	119.9	116.0	113.0	111.0
45°	101.2	101.2	105.2	108.1	117.9	130.7	118.9	108.1	106.2	104.1	103.2
47.5°	93.3	94.4	96.3	100.2	108.1	117.0	109.1	100.2	95.3	94.4	92.4
50°	83.5	84.5	88.5	92.4	102.2	107.1	102.2	92.4	87.5	84.5	84.5
52°	75.6	78.6	82.5	90.4	97.3	105.2	99.3	88.5	82.5	79.6	77.7
52.5°	74.7	76.7	80.6	89.4	97.3	104.1	98.3	87.5	80.6	78.6	76.7
55°	66.8	69.8	76.7	87.5	96.3	104.1	96.3	86.5	76.7	71.7	69.8
57.5°	63.9	65.9	74.7	88.5	95.3	104.1	96.3	86.5	76.7	67.8	65.9
60°	60.9	64.8	74.7	85.5	94.4	105.2	97.3	85.5	74.7	63.9	63.9
62.5°	58.0	60.9	73.7	83.5	90.4	101.2	93.3	83.5	71.7	60.9	60.0
65°	50.1	55.0	64.8	69.8	77.7	87.5	79.6	72.7	62.9	54.0	53.1
67.5°	38.3	40.3	48.2	54.0	59.0	67.8	63.9	55.0	48.2	41.3	41.3
70°	26.5	28.5	34.4	37.3	42.3	47.1	44.2	37.3	32.4	28.5	27.5
72.5°	18.6	19.7	21.6	23.6	25.5	27.5	26.5	21.6	18.6	17.7	16.7
75°	14.7	16.7	17.7	16.7	15.7	14.7	14.7	12.8	10.8	9.9	9.9
77.5°	14.7	15.7	14.7	12.8	10.8	9.9	8.8	7.8	5.9	4.9	5.9
80°	12.8	12.8	12.8	10.8	9.9	8.8	7.8	6.9	5.9	4.9	4.9
82.5°	13.8	13.8	12.8	10.8	10.8	8.8	8.8	7.8	6.9	4.9	4.9
85°	0.0	0.0	0.0	2.0	4.9	8.8	8.8	7.8	6.9	5.9	5.9
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	3.9	4.9	5.9	5.9	5.9
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°	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9
2.5°	2169.9	2207.3	2278.1	2348.8	2392.1	2443.1	2535.5	2584.7	2648.5	2680.0	2741.9
5°	1748.4	1836.8	1868.2	1948.8	2035.3	2121.8	2259.3	2410.7	2536.5	2623.0	2735.0
7.5°	1275.6	1296.3	1418.1	1472.2	1613.7	1770.9	1958.6	2149.3	2308.5	2450.0	2535.5
10°	956.2	1031.9	1108.6	1211.8	1325.8	1487.9	1667.7	1878.0	2084.4	2225.9	2334.0
12.5°	768.5	828.5	930.7	1041.7	1182.3	1289.4	1470.2	1678.5	1945.8	2084.4	2226.9
15°	581.8	658.4	774.4	889.4	1037.8	1150.8	1333.6	1596.0	1940.0	2130.6	2253.5
17.5°	431.4	483.5	587.7	716.4	867.8	1027.0	1273.6	1587.1	2005.8	2232.8	2359.6
20°	330.2	347.9	413.7	528.8	692.9	901.2	1176.4	1625.5	2200.4	2481.5	2610.2
22.5°	267.3	275.1	300.8	380.3	539.6	791.1	1130.2	1652.1	2419.5	2779.3	2951.2
25°	232.9	231.0	247.7	282.0	421.6	687.9	1071.2	1752.3	2687.8	3129.1	3283.4
27.5°	212.3	212.3	220.1	244.7	349.8	621.1	1033.9	1824.0	2958.1	3436.7	3520.2
30°	201.5	203.4	226.1	233.9	290.9	541.5	971.9	1896.7	3216.6	3633.3	3748.2
32.5°	186.7	178.8	174.0	193.6	244.7	469.7	910.0	1927.2	3425.9	3874.0	3972.3
35°	143.4	139.5	145.5	160.2	210.3	408.8	841.3	1961.6	3666.6	4153.1	4172.8
37.5°	129.7	128.7	132.6	145.5	176.9	355.8	792.1	1952.7	3850.4	4384.1	4331.0
40°	119.9	119.9	122.9	133.7	158.2	318.4	741.0	1944.9	4028.3	4643.5	4488.2
42.5°	112.0	112.0	117.0	123.8	150.3	293.9	702.7	1934.1	4177.7	4802.8	4580.6
45°	101.2	104.1	112.0	118.9	152.3	277.1	674.2	1892.8	4228.8	4800.7	4536.4
47.5°	93.3	97.3	105.2	114.9	137.6	272.2	654.5	1856.4	4211.1	4682.8	4397.8
50°	84.5	89.4	100.2	117.0	117.0	262.4	633.9	1888.8	4198.4	4591.4	4265.2
52°	78.6	82.5	96.3	114.0	102.2	241.8	621.1	1951.8	4250.4	4579.6	4206.2
52.5°	77.7	80.6	93.3	112.0	97.3	237.8	612.2	1966.5	4267.1	4550.2	4246.5
55°	68.8	72.7	85.5	87.5	79.6	195.6	583.7	1999.9	4184.6	4492.1	4208.2
57.5°	64.8	66.8	75.6	71.7	68.8	147.4	502.2	1947.8	3716.8	3990.0	3915.3
60°	60.0	61.9	70.8	56.0	58.0	103.2	377.4	1691.4	2984.6	3324.7	3459.3
62.5°	58.0	57.0	66.8	45.2	49.2	74.7	266.3	1374.9	2299.7	2737.0	2969.9
65°	51.1	50.1	48.2	38.3	42.3	58.0	159.2	897.2	1620.6	2070.6	2198.4
67.5°	39.3	41.3	35.4	30.5	35.4	45.2	88.5	401.9	850.1	1242.2	1345.4
70°	27.5	29.5	28.5	26.5	31.5	37.3	51.1	137.6	351.8	652.6	719.3
72.5°	16.7	20.7	21.6	22.6	27.5	32.4	36.3	44.2	93.3	231.0	287.0
75°	9.9	13.8	16.7	19.7	22.6	27.5	30.5	31.5	32.4	43.2	69.8
77.5°	6.9	9.9	14.7	18.6	22.6	27.5	32.4	34.4	32.4	30.5	32.4
80°	5.9	9.9	13.8	17.7	23.6	28.5	32.4	32.4	31.5	27.5	29.5
82.5°	5.9	9.9	14.7	18.6	22.6	27.5	31.5	32.4	29.5	27.5	28.5
85°	6.9	10.8	15.7	19.7	24.6	22.6	20.7	16.7	15.7	12.8	13.8
87.5°	6.9	9.9	9.9	10.8	11.8	11.8	11.8	10.8	8.8	7.8	7.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9
2.5°	2744.8	2823.5	2820.5	2822.5	2810.7	2731.1	2692.7	2595.5	2623.0	2611.1
5°	2850.0	2927.6	2994.4	2986.6	2896.2	2788.1	2627.9	2476.6	2435.3	2374.4
7.5°	2744.8	2931.6	2993.5	2984.6	2851.0	2712.4	2456.9	2305.5	2233.8	2193.5
10°	2577.8	2794.0	2870.6	2886.4	2795.9	2585.6	2350.7	2108.0	2069.7	1999.9
12.5°	2482.4	2639.6	2686.9	2729.1	2697.7	2540.4	2270.2	2037.3	1984.2	1938.0
15°	2404.8	2498.2	2517.8	2566.0	2584.7	2500.1	2312.4	2113.9	1983.2	1978.3
17.5°	2476.6	2438.2	2366.5	2381.2	2440.2	2501.1	2421.5	2265.2	2138.5	2122.8
20°	2595.5	2426.4	2264.3	2300.6	2349.8	2536.5	2586.6	2476.6	2403.8	2363.6
22.5°	2732.0	2447.0	2231.9	2249.6	2342.9	2616.1	2854.0	2793.0	2657.3	2599.4
25°	2984.6	2504.0	2257.4	2269.2	2396.9	2727.2	3095.7	3140.9	3060.3	3048.5
27.5°	3231.3	2651.5	2313.4	2286.9	2424.5	2835.2	3242.1	3484.8	3343.3	3315.8
30°	3357.1	2771.4	2396.9	2351.7	2538.5	2901.1	3330.6	3708.9	3585.1	3572.4
32.5°	3549.7	2880.4	2461.8	2403.8	2602.4	2982.7	3495.7	3953.6	3833.7	3769.8
35°	3630.3	2999.4	2604.3	2536.5	2785.1	3096.7	3580.2	4171.8	4134.5	4072.5
37.5°	3785.6	3127.1	2772.4	2768.5	3006.3	3245.1	3732.5	4468.6	4461.7	4354.6
40°	3798.3	3266.7	3037.7	3161.5	3348.3	3503.5	3866.1	4551.1	4663.2	4590.5
42.5°	3818.0	3511.4	3496.6	3598.8	3759.0	3725.6	3871.1	4570.8	4741.8	4698.5
45°	3826.8	3756.1	3963.5	4152.2	4219.0	4016.6	3824.9	4533.5	4783.1	4675.0
47.5°	3756.1	3966.4	4340.9	4705.4	4725.1	4195.4	3805.2	4495.1	4807.6	4735.9
50°	3765.9	4098.1	4667.1	4993.4	4921.6	4353.6	3774.8	4471.6	4794.9	4746.7
52°	3742.3	4101.0	4713.3	4987.5	4937.4	4266.2	3722.7	4381.1	4783.1	4817.5
52.5°	3768.9	4083.3	4665.1	4991.4	4926.6	4309.4	3715.8	4431.2	4789.9	4720.2
55°	3677.4	3873.0	4383.1	4521.7	4511.8	3911.4	3504.5	4265.2	4610.1	4611.1
57.5°	3323.7	3357.1	3437.7	3434.7	3389.5	3075.1	2997.4	3922.2	4109.9	4007.7
60°	2928.6	2457.8	2240.7	2152.2	2102.1	2051.0	2651.5	3588.0	3605.7	3562.5
62.5°	2530.6	1704.1	1415.2	1390.6	1402.4	1589.1	2563.0	3455.4	3349.2	3255.9
65°	2042.1	1242.2	1028.0	995.5	1110.5	1312.0	2074.6	2649.5	2486.3	2408.7
67.5°	1282.5	906.1	694.8	633.9	772.4	903.2	1363.0	1664.8	1482.0	1374.9
70°	760.7	506.1	314.5	282.0	317.4	481.5	763.6	830.4	686.9	631.9
72.5°	299.7	185.7	87.5	74.7	77.7	169.0	281.1	274.2	207.3	184.8
75°	80.6	56.0	30.5	24.6	20.7	31.5	45.2	29.5	10.8	13.8
77.5°	37.3	33.4	26.5	20.7	15.7	11.8	5.9	2.0	2.0	1.0
80°	32.4	28.5	24.6	20.7	15.7	9.9	4.9	1.0	1.0	1.0
82.5°	30.5	26.5	22.6	18.6	14.7	9.9	4.9	1.0	0.0	0.0
85°	12.8	16.7	18.6	17.7	15.7	9.9	4.9	1.0	0.0	0.0
87.5°	6.9	5.9	4.9	3.9	3.0	2.0	2.0	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

(END OF REPORT)