

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: P451393

Luminaire Tested: **GALN-SA2B-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 7484 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82
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

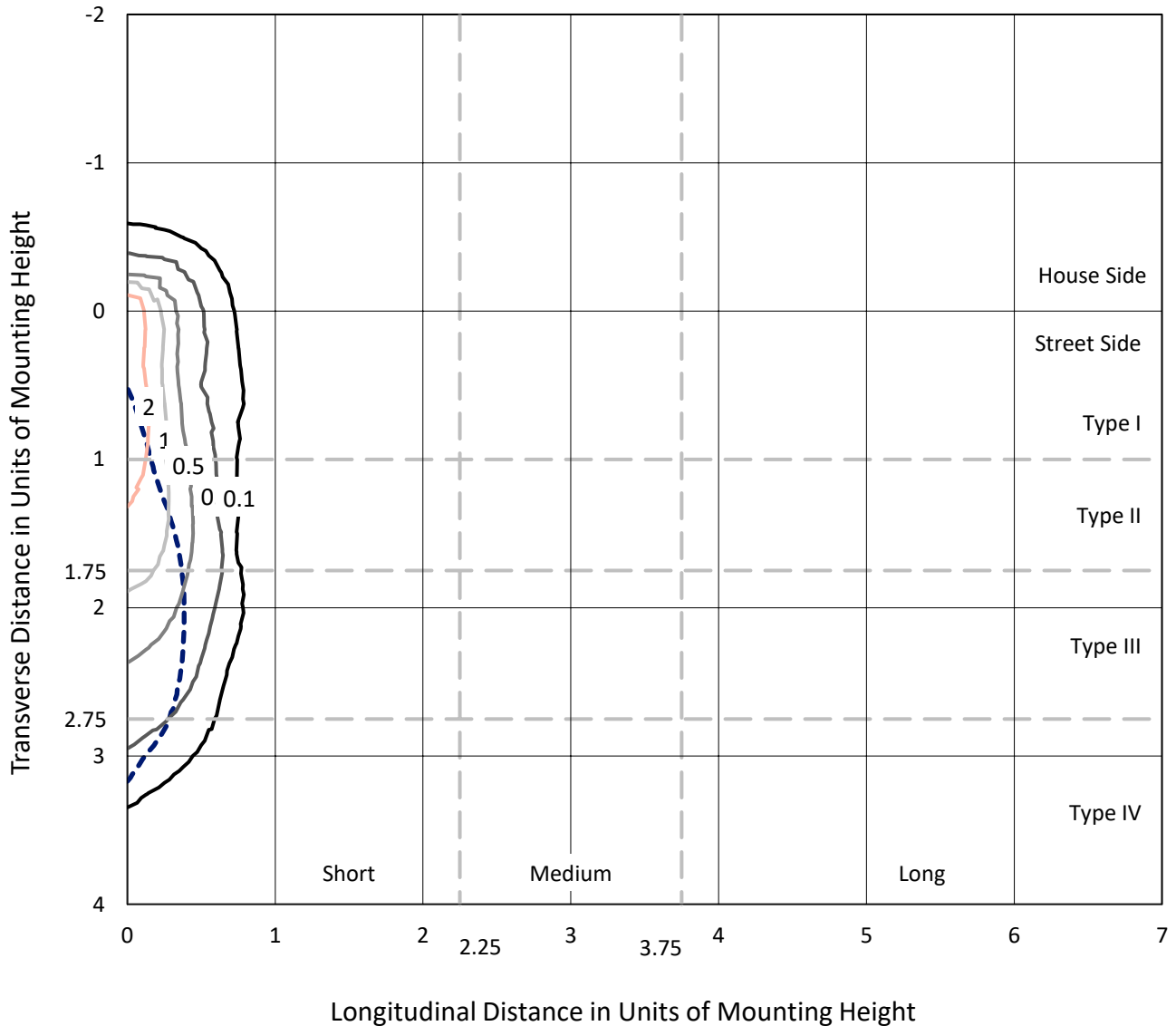




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Iso-Footcandle Lines of Horizontal Illumination

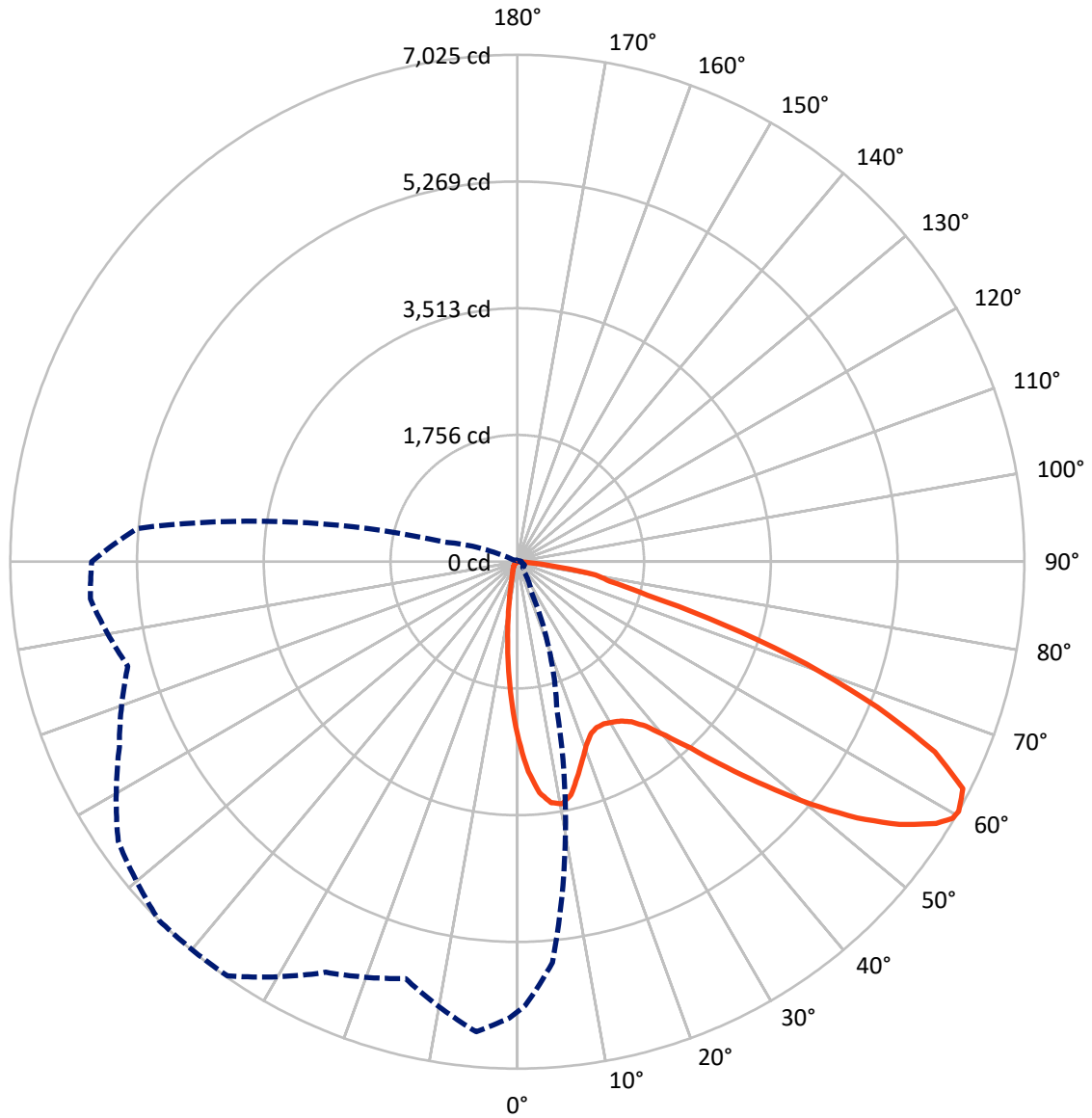
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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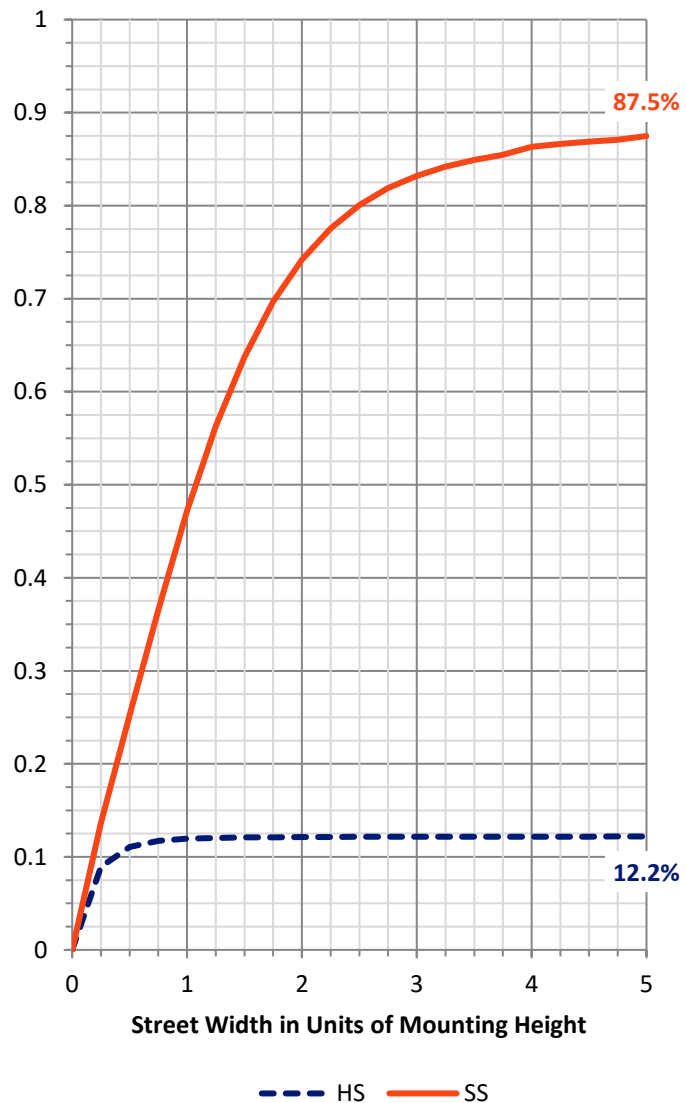
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	923.1	0.0	923.1
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	6560.9	0.0	6560.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	7484.0	0.0	7484.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.0	2.5
10°-20°	365.4	4.9
20°-30°	535.7	7.2
30°-40°	796.7	10.6
40°-50°	1159.5	15.5
50°-60°	1672.1	22.3
60°-70°	1839.1	24.6
70°-80°	823.8	11.0
80°-90°	107.6	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°	7484.0	100.0
0°-180°	7484.0	100.0



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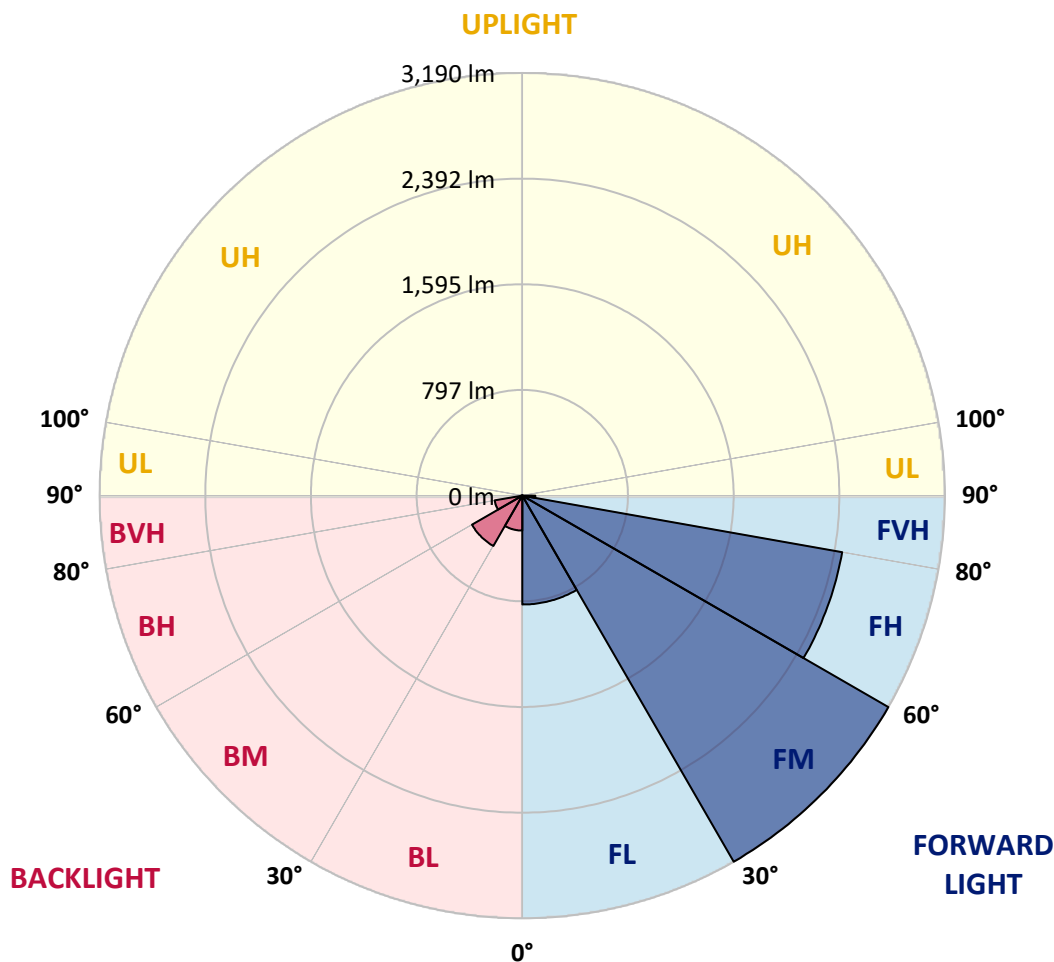
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.3	11.0			
FM (30°-60°)	3189.9	42.6			
FH (60°-80°)	2451.2	32.8			G2/5000
FVH (80°-90°)	98.4	1.3			G1/100
BL (0°-30°)	263.8	3.5	B1/500		
BM (30°-60°)	438.4	5.9	B1/1000		
BH (60°-80°)	211.7	2.8	B1/500		G1/500
BVH (80°-90°)	9.2	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6
2.5°	2719.3	2707.4	2680.1	2597.0	2524.8	2430.3	2334.8	2259.7	2213.6	2128.8	2090.1
5°	2634.6	2640.3	2561.2	2390.5	2200.5	2070.8	1929.1	1816.5	1692.5	1614.0	1531.5
7.5°	2413.3	2401.9	2316.0	2078.2	1847.2	1659.5	1480.3	1334.6	1243.0	1169.7	1108.2
10°	2223.8	2215.3	2105.5	1799.4	1551.4	1410.9	1289.7	1162.3	1063.8	956.3	870.4
12.5°	2104.9	2085.6	1959.3	1639.6	1437.6	1306.8	1174.8	1042.2	906.3	797.6	693.5
15°	2065.1	2037.2	1896.7	1584.4	1364.8	1198.7	1033.1	880.7	724.2	604.2	525.7
17.5°	2137.4	2091.3	1941.6	1574.7	1277.7	1057.6	853.9	655.4	492.7	401.1	352.7
20°	2302.9	2250.0	2055.4	1565.0	1181.0	899.4	649.1	463.1	340.8	290.7	264.0
22.5°	2548.7	2475.8	2223.8	1580.4	1091.7	745.3	468.8	327.1	270.8	239.5	220.7
25°	2843.9	2783.0	2437.2	1635.0	1021.2	624.1	362.4	267.4	228.1	208.8	194.6
27.5°	3167.6	3070.3	2713.1	1700.4	956.9	530.2	318.0	238.9	203.1	185.5	178.1
30°	3398.0	3322.4	2944.0	1745.9	876.7	459.7	290.7	235.5	203.7	182.6	169.0
32.5°	3625.6	3528.9	3137.5	1767.0	818.1	410.7	251.5	205.4	178.6	167.8	154.2
35°	3869.1	3767.8	3330.3	1755.6	774.3	378.3	228.1	183.2	153.0	134.8	121.2
37.5°	4115.4	4008.5	3522.0	1714.7	747.0	365.2	209.9	174.1	144.5	125.7	110.9
40°	4407.8	4265.0	3701.8	1681.1	718.5	358.4	198.0	168.4	138.2	118.3	103.5
42.5°	4646.8	4510.8	3871.9	1663.5	699.2	342.5	198.0	163.8	134.3	112.1	96.7
45°	4873.2	4732.1	4055.7	1677.7	691.2	322.6	200.3	163.3	131.4	107.5	92.2
47.5°	5062.6	4940.3	4244.5	1731.2	681.0	300.9	188.3	171.2	129.7	103.5	87.6
50°	5286.2	5167.9	4494.3	1839.2	662.8	279.3	173.5	184.3	129.1	100.1	83.6
52.5°	5601.4	5473.4	4839.0	1962.1	633.8	246.3	159.9	182.6	126.9	94.4	79.6
55°	5986.5	5883.0	5238.4	2109.5	593.9	209.4	138.2	162.1	120.0	84.8	72.8
57.5°	6233.4	6145.2	5537.7	2173.2	533.1	171.2	121.7	136.0	109.8	75.7	64.9
59°	6262.4	6182.8	5600.2	2152.1	493.2	156.4	113.8	116.6	107.0	70.5	60.3
60°	6238.0	6155.5	5575.2	2111.2	456.3	146.2	107.0	103.5	107.5	67.7	56.9
62.5°	6081.0	5939.9	5332.3	1903.5	398.8	134.3	95.0	84.8	95.0	60.9	50.6
65°	5777.7	5566.1	4851.6	1611.1	376.0	127.4	80.8	71.1	72.3	53.5	43.8
67.5°	5248.1	4981.3	4211.6	1309.0	366.4	128.0	68.3	63.7	55.8	45.5	38.7
70°	4410.7	4144.4	3379.3	1076.9	361.8	128.0	58.0	54.6	46.6	38.1	33.6
72.5°	3125.5	2838.8	2279.6	846.0	326.0	127.4	49.5	49.5	38.1	31.9	27.3
75°	1765.9	1768.1	1433.1	598.5	270.8	105.2	39.8	39.3	27.9	24.5	20.5
77.5°	1029.1	1010.9	966.0	257.1	125.7	47.8	27.9	23.9	19.3	17.6	14.8
80°	529.1	435.2	423.8	93.3	44.9	30.2	19.3	13.7	12.5	11.4	10.2
82.5°	156.4	157.0	139.9	37.5	25.0	19.9	9.7	7.4	6.8	6.3	6.3
85°	10.8	6.8	8.0	11.4	15.4	8.0	0.6	1.7	1.7	2.3	2.8
87.5°	1.1	0.6	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°	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6
2.5°	2047.5	2072.5	2025.8	2027.0	1988.3	2000.8	1955.3	1970.1	1943.4	1963.8	2024.1
5°	1540.6	1546.3	1508.7	1496.8	1502.5	1525.8	1534.9	1493.4	1511.0	1476.3	1474.0
7.5°	1085.5	1092.3	1070.7	1067.8	1108.8	1099.1	1116.7	1074.1	1033.7	1051.3	1018.9
10°	843.1	814.7	770.3	757.8	749.8	754.9	754.9	716.2	710.6	695.2	718.5
12.5°	665.6	630.9	588.8	531.9	517.7	516.6	495.5	461.4	450.6	437.5	456.8
15°	483.6	469.3	434.1	402.2	369.8	363.5	329.4	301.5	264.5	259.4	257.7
17.5°	340.2	319.2	318.6	300.4	281.6	269.1	237.2	205.4	191.1	189.4	189.4
20°	254.9	247.5	235.5	233.2	227.6	213.3	184.9	167.8	161.0	161.6	163.8
22.5°	214.5	209.4	198.5	193.4	191.1	178.6	157.6	146.2	142.8	142.8	143.4
25°	191.7	187.2	175.2	167.3	164.4	155.3	138.8	130.3	127.4	127.4	127.4
27.5°	174.7	169.0	156.4	149.6	144.5	134.3	124.0	115.5	112.6	112.6	113.2
30°	162.7	156.4	145.1	136.0	128.0	118.9	110.4	103.0	99.6	99.0	99.6
32.5°	146.8	141.1	129.7	124.0	114.9	104.1	97.3	90.5	87.0	87.6	87.0
35°	114.3	112.6	104.7	106.4	101.3	92.2	85.9	78.5	74.5	74.0	75.1
37.5°	104.1	97.3	88.2	88.7	87.0	83.6	73.4	65.4	62.6	62.6	63.1
40°	96.1	89.3	79.1	74.0	74.5	74.5	63.7	55.2	52.3	51.8	52.9
42.5°	89.3	82.5	71.1	62.6	60.3	63.1	54.0	45.5	42.7	41.5	42.7
45°	84.8	77.4	64.3	54.6	47.8	51.2	44.4	37.5	34.1	34.1	33.6
47.5°	80.2	73.4	59.2	47.2	39.8	38.1	36.4	30.2	26.7	26.2	26.7
50°	76.2	69.4	53.5	41.0	33.6	29.6	29.6	23.9	21.6	20.5	21.0
52.5°	72.3	64.9	48.4	36.4	29.0	23.9	21.0	19.3	17.6	17.1	17.6
55°	66.6	59.2	43.2	31.3	25.0	19.9	16.5	15.9	14.8	13.7	14.8
57.5°	59.7	52.9	38.1	26.7	19.9	15.4	13.7	13.1	11.9	11.4	11.4
59°	55.8	49.5	35.3	23.3	17.6	13.7	12.5	11.9	10.8	9.7	10.2
60°	53.5	48.4	33.6	21.6	15.9	12.5	11.4	10.8	9.7	9.1	9.7
62.5°	47.2	43.2	29.6	17.6	12.5	9.1	8.0	8.5	8.0	7.4	8.0
65°	41.5	38.1	25.0	13.7	9.7	6.3	5.7	7.4	6.8	6.3	6.8
67.5°	37.0	33.0	21.0	10.2	6.8	3.4	4.0	6.3	6.3	5.7	6.3
70°	31.9	28.4	17.1	7.4	3.4	1.7	2.8	4.6	5.7	5.1	5.7
72.5°	26.2	22.2	13.1	5.1	1.7	0.0	1.7	4.0	5.7	5.1	5.7
75°	20.5	16.5	9.7	2.8	0.0	0.0	0.6	3.4	5.7	5.1	5.7
77.5°	14.8	11.9	5.7	0.6	0.0	0.0	0.6	3.4	5.7	5.1	5.7
80°	9.7	8.5	2.3	0.0	0.0	0.0	0.6	3.4	5.7	5.7	6.3
82.5°	6.3	4.6	0.0	0.0	0.0	0.0	1.1	4.6	6.3	6.8	6.8
85°	2.8	0.0	0.0	0.0	0.0	0.0	2.3	5.7	7.4	7.4	7.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	4.0	6.8	8.5	8.5	8.5
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°	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6
2.5°	2034.4	2070.2	2120.9	2198.8	2261.9	2361.5	2437.7	2541.8	2647.1	2678.9	2728.4
5°	1497.3	1543.4	1658.3	1763.0	1829.0	2039.5	2172.6	2382.5	2570.9	2661.3	2759.7
7.5°	1039.9	1094.6	1182.2	1328.4	1467.2	1638.4	1853.5	2093.5	2369.5	2498.6	2637.4
10°	729.9	798.2	921.6	1041.7	1216.3	1379.0	1591.2	1856.3	2160.7	2313.1	2487.2
12.5°	460.8	521.7	685.0	819.8	1037.7	1226.5	1422.2	1662.3	2015.0	2171.5	2354.1
15°	263.4	314.6	390.8	563.8	805.6	1055.3	1299.4	1578.1	1940.5	2133.4	2330.8
17.5°	196.3	209.9	244.1	341.9	562.1	853.9	1186.2	1552.5	1991.1	2217.6	2442.8
20°	165.0	174.1	190.0	228.7	358.4	657.6	1075.8	1557.1	2155.0	2439.4	2653.3
22.5°	147.9	153.6	166.7	191.7	244.6	479.0	946.6	1583.8	2353.5	2711.9	2958.8
25°	129.7	137.1	148.5	170.1	203.7	332.2	819.2	1643.5	2631.7	3057.8	3289.9
27.5°	115.5	122.3	133.7	153.6	178.6	253.7	670.7	1694.7	2925.3	3406.0	3596.0
30°	101.3	108.1	119.5	135.4	158.2	205.4	510.9	1724.9	3210.3	3667.1	3813.3
32.5°	89.3	95.0	105.8	120.0	138.8	174.1	402.8	1693.6	3428.2	3904.3	4002.2
35°	77.4	84.2	93.3	106.4	122.9	148.5	335.1	1585.5	3615.3	4148.4	4183.7
37.5°	64.9	72.8	82.5	94.4	107.5	136.5	269.1	1466.1	3815.6	4452.8	4394.7
40°	54.6	62.0	71.1	84.2	96.1	125.2	207.1	1338.6	4031.8	4738.4	4625.1
42.5°	44.4	52.3	63.1	75.1	95.0	109.2	160.4	1206.6	4225.8	4987.0	4833.4
45°	35.3	42.1	53.5	68.8	94.4	93.9	124.0	1076.4	4372.0	5164.5	4988.7
47.5°	27.9	33.6	44.9	67.1	87.0	79.6	99.6	995.6	4525.6	5324.3	5107.6
50°	22.2	27.9	38.7	70.0	76.2	68.3	83.6	1008.7	4674.1	5405.7	5156.5
52.5°	18.8	24.5	33.6	55.2	58.6	59.7	73.4	1069.0	4865.8	5492.7	5253.8
55°	16.5	21.6	28.4	38.7	45.5	53.5	67.1	1112.8	5122.4	5679.3	5468.2
57.5°	13.1	18.8	25.6	33.0	37.5	46.6	62.0	1116.2	5354.5	5918.8	5753.3
59°	11.9	17.1	23.9	31.3	33.6	42.1	58.6	1087.2	5363.0	5954.7	5884.1
60°	10.8	16.5	22.8	29.0	31.9	39.8	55.8	1053.6	5285.6	5897.8	5938.2
62.5°	9.1	14.2	19.9	23.3	27.3	33.0	48.4	931.9	4910.7	5640.1	5838.0
65°	8.0	12.5	17.1	19.3	22.8	28.4	42.7	745.8	4496.6	5290.8	5551.3
67.5°	7.4	11.4	14.8	16.5	19.9	26.2	38.1	526.8	3960.1	4847.6	5120.7
70°	6.8	10.8	13.1	15.4	17.6	22.2	32.4	307.2	3050.4	4070.5	4358.9
72.5°	6.8	10.2	11.4	13.1	15.4	19.9	30.2	166.1	2085.6	3105.0	3477.7
75°	6.8	9.7	10.2	11.4	13.7	18.2	26.7	87.0	1348.3	2157.3	2662.4
77.5°	6.8	9.1	10.2	10.8	13.1	15.9	23.3	54.6	898.3	1511.0	1799.4
80°	7.4	9.1	9.7	10.8	12.5	14.8	19.3	36.4	527.9	909.1	1095.1
82.5°	8.0	9.1	10.2	11.4	13.1	14.2	17.1	22.8	243.5	601.3	680.4
85°	8.5	9.7	10.8	11.9	13.7	14.2	15.9	16.5	39.8	271.4	366.9
87.5°	9.1	10.2	11.4	12.5	14.8	14.8	14.8	14.8	13.7	29.0	74.0
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°	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6
2.5°	2791.0	2855.3	2900.2	2911.6	2879.2	2864.4	2823.4	2759.7	2721.0	2719.3
5°	2941.2	3092.0	3196.6	3214.3	3151.7	3045.9	2920.2	2758.0	2663.0	2634.6
7.5°	2915.6	3179.6	3348.0	3372.4	3267.2	3065.2	2821.7	2560.6	2457.1	2413.3
10°	2810.4	3132.4	3373.0	3411.7	3271.2	2986.7	2677.2	2386.0	2257.4	2223.8
12.5°	2720.5	3045.9	3259.8	3313.3	3206.9	2923.0	2590.8	2273.9	2136.2	2104.9
15°	2681.2	2943.5	3074.3	3101.6	3084.0	2883.2	2581.7	2256.8	2099.2	2065.1
17.5°	2720.5	2856.4	2872.9	2900.8	2940.1	2879.2	2669.3	2349.5	2179.4	2137.4
20°	2823.4	2780.8	2712.5	2724.5	2814.3	2895.7	2825.1	2554.9	2347.8	2302.9
22.5°	2998.7	2762.0	2607.3	2597.0	2710.8	2950.9	3053.8	2833.1	2593.0	2548.7
25°	3213.7	2809.2	2568.6	2546.4	2670.4	3031.7	3302.5	3173.9	2911.6	2843.9
27.5°	3448.1	2907.1	2568.6	2547.0	2667.0	3103.3	3515.2	3475.4	3241.6	3167.6
30°	3576.7	2987.9	2605.6	2581.1	2709.1	3144.9	3629.0	3743.3	3489.6	3398.0
32.5°	3691.6	3099.9	2677.8	2631.7	2797.3	3206.3	3730.8	3970.9	3687.0	3625.6
35°	3797.4	3220.0	2777.4	2723.9	2913.3	3290.5	3843.5	4209.8	3961.8	3869.1
37.5°	3914.0	3359.3	2932.7	2887.2	3107.3	3454.3	3977.2	4523.9	4232.0	4115.4
40°	4040.9	3520.9	3188.1	3168.8	3415.7	3639.8	4146.1	4859.0	4540.4	4407.8
42.5°	4170.0	3706.9	3501.0	3532.9	3765.0	3899.8	4319.6	5116.7	4793.0	4646.8
45°	4287.2	3944.7	3907.8	4065.3	4172.3	4153.5	4448.2	5298.1	5013.1	4873.2
47.5°	4435.1	4291.2	4399.9	4642.8	4645.6	4429.4	4545.5	5446.6	5202.6	5062.6
50°	4600.7	4700.2	5035.3	5282.8	5216.2	4700.8	4659.3	5622.4	5398.3	5286.2
52.5°	4792.4	5158.2	5622.4	5897.2	5741.9	4996.6	4848.7	5812.4	5708.9	5601.4
55°	5015.4	5470.5	6207.8	6426.8	6270.4	5364.1	5136.6	6070.1	6059.9	5986.5
57.5°	5267.4	5800.5	6546.9	6843.3	6703.9	5795.4	5538.8	6313.1	6274.4	6233.4
59°	5466.5	5970.0	6696.5	7003.7	6919.5	6097.4	5809.0	6464.4	6323.9	6262.4
60°	5587.1	6084.9	6751.7	7025.3	7006.0	6277.2	5980.3	6538.3	6323.3	6238.0
62.5°	5945.0	6285.8	6730.6	6929.2	7004.8	6622.0	6482.6	6619.7	6206.1	6081.0
65°	6072.4	6219.2	6381.9	6357.4	6422.3	6604.3	6803.5	6530.4	5955.8	5777.7
67.5°	5824.4	5489.3	5546.8	5383.5	5351.6	5871.6	6673.2	6093.5	5466.0	5248.1
70°	4909.6	4205.3	4176.3	4251.4	4045.4	4753.7	5992.2	5252.1	4657.6	4410.7
72.5°	3864.5	2971.9	2727.3	3003.8	2997.5	3626.7	4977.9	3726.9	3146.6	3125.5
75°	3039.1	2069.1	1815.9	1860.9	1947.3	2625.5	3964.7	2366.6	1937.7	1765.9
77.5°	2040.1	1466.1	1367.6	1312.4	1405.7	1685.6	2508.3	1283.4	1086.6	1029.1
80°	1175.9	1065.0	1209.5	1098.0	1148.0	1062.1	1247.6	588.8	488.7	529.1
82.5°	765.2	606.4	646.3	480.2	656.5	662.2	400.5	174.1	147.3	156.4
85°	478.4	284.4	159.9	113.8	226.4	416.4	125.2	10.8	12.5	10.8
87.5°	124.0	47.2	19.9	29.6	36.4	32.4	29.0	1.7	0.6	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)