

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: P527899

Luminaire Tested: **GALN-SA3A-722-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527899
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-SA3A-722-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 615mA 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: 5548 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

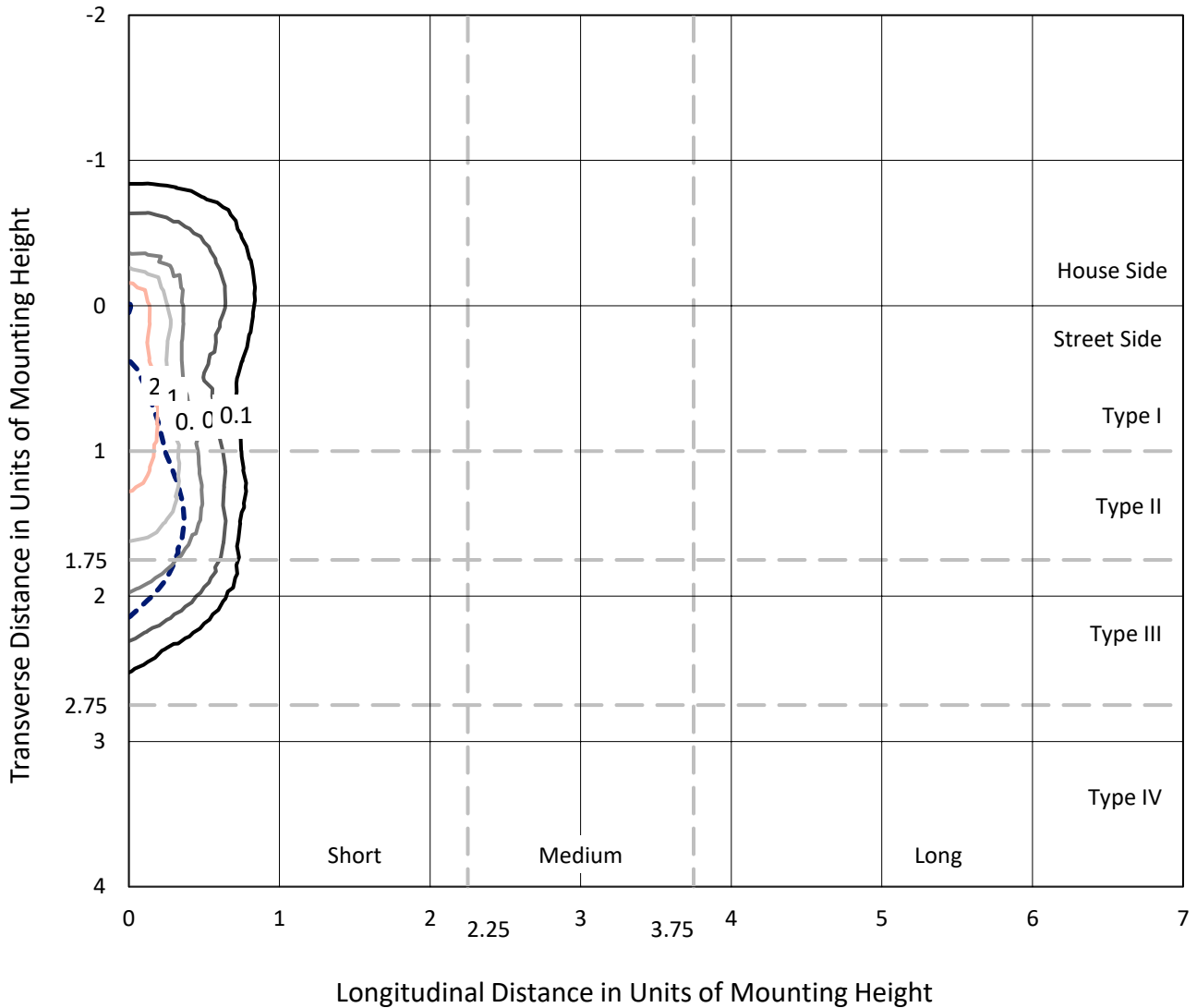
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

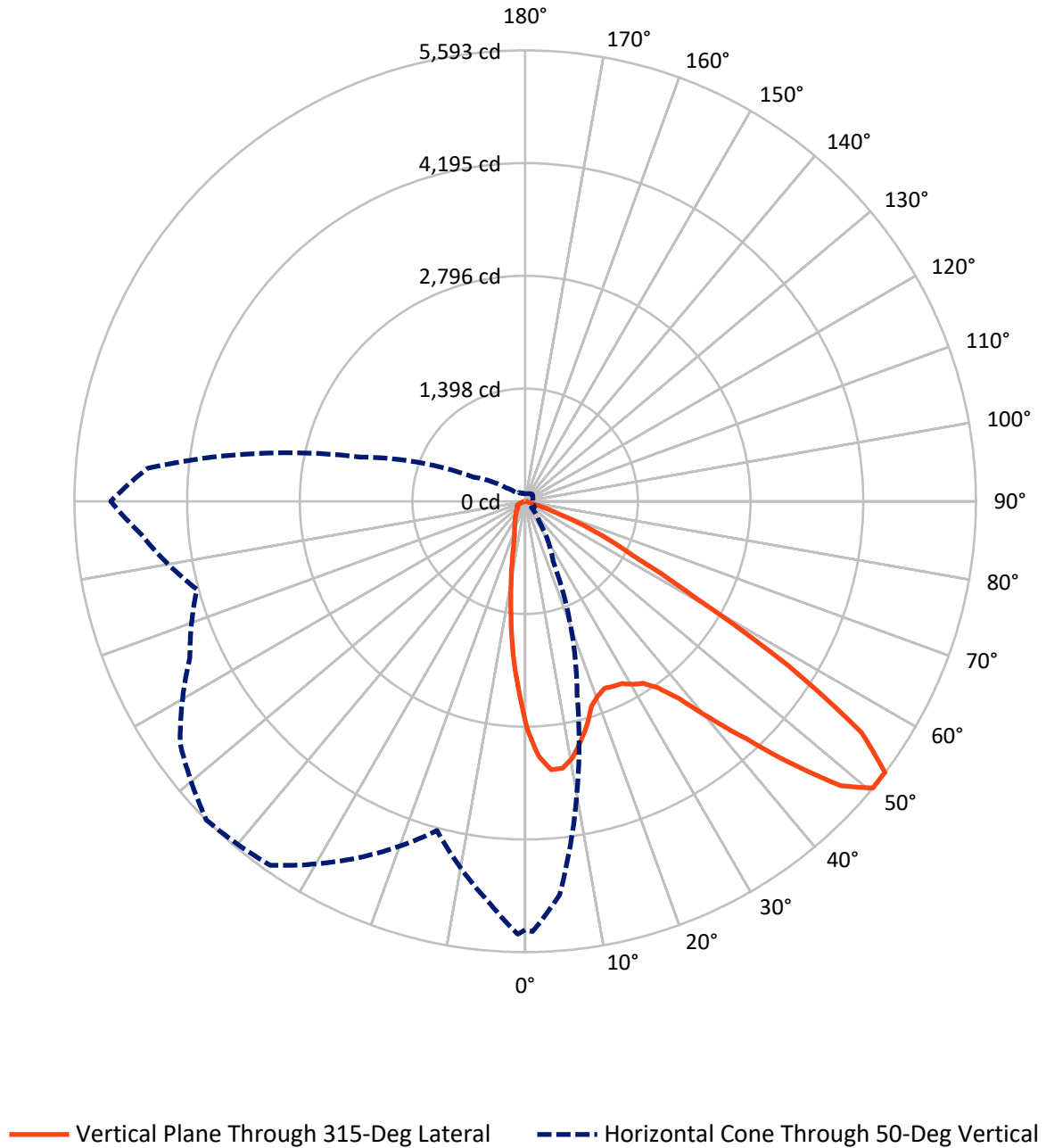
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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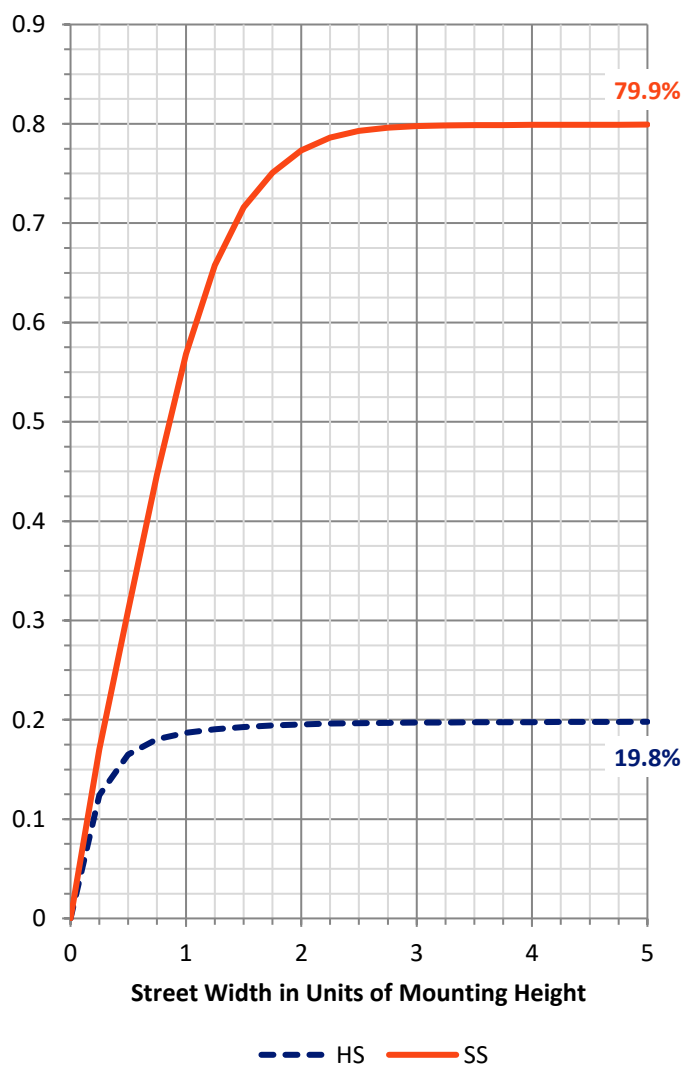
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1111.3	0.0	1111.3
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	4436.7	0.0	4436.7
	% Fixture	80.0	0.0	80.0
Total	Lumens	5548.0	0.0	5548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.1	3.7
10°-20°	407.6	7.3
20°-30°	612.3	11.0
30°-40°	919.1	16.6
40°-50°	1291.7	23.3
50°-60°	1393.3	25.1
60°-70°	646.9	11.7
70°-80°	60.9	1.1
80°-90°	11.2	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°	5548.0	100.0
0°-180°	5548.0	100.0

Coefficient of Utilization



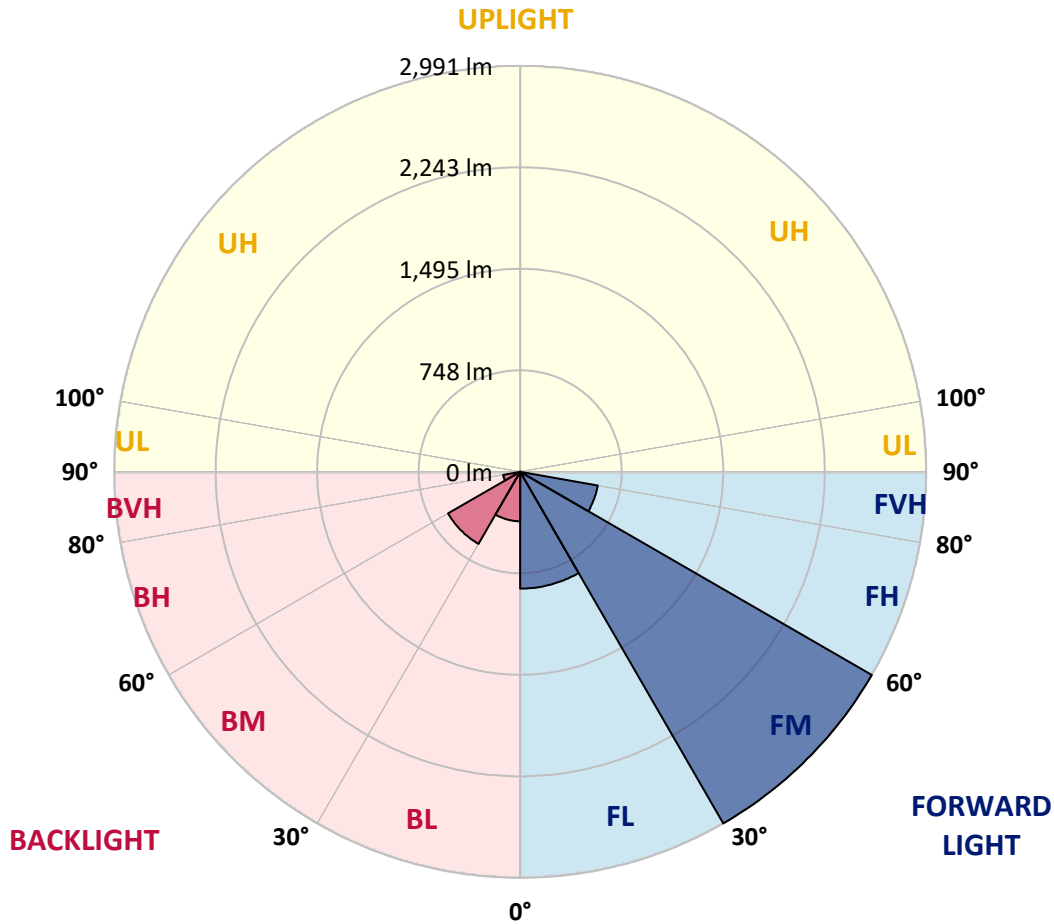
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	860.7	15.5			
FM (30°-60°)	2990.8	53.9			
FH (60°-80°)	580.2	10.5			G0/660
FVH (80°-90°)	5.1	0.1			G0/10
BL (0°-30°)	364.2	6.6	B1/500		
BM (30°-60°)	613.3	11.1	B1/1000		
BH (60°-80°)	127.6	2.3	B1/500		G1/500
BVH (80°-90°)	6.2	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5
2.5°	2924.7	2879.6	2822.3	2775.0	2704.6	2562.6	2524.0	2477.8	2439.3	2387.5	2314.9
5°	2659.4	2645.1	2618.7	2440.4	2311.6	2139.9	1999.0	1939.5	1861.4	1797.5	1751.3
7.5°	2456.9	2399.7	2316.0	2136.6	1930.7	1746.9	1590.6	1499.2	1395.8	1360.5	1297.8
10°	2240.0	2253.2	2130.0	1877.9	1629.1	1480.5	1383.7	1295.6	1202.0	1140.4	1051.2
12.5°	2170.7	2127.8	2033.1	1721.6	1509.1	1370.4	1252.7	1143.7	1044.6	945.6	859.7
15°	2215.8	2149.8	2017.7	1688.6	1416.7	1243.9	1096.4	948.9	857.5	730.9	641.7
17.5°	2377.6	2324.8	2147.6	1723.8	1369.3	1122.8	903.7	751.8	612.0	497.5	452.4
20°	2647.3	2572.5	2350.1	1768.9	1298.9	976.4	733.1	546.0	413.9	365.5	340.1
22.5°	2911.5	2870.8	2590.1	1855.9	1236.2	846.5	550.4	367.7	309.3	300.5	284.0
25°	3414.5	3292.4	2956.6	2013.3	1187.7	724.3	415.0	296.1	262.0	255.4	257.6
27.5°	3714.0	3611.6	3295.7	2117.9	1133.8	630.7	351.1	271.9	248.8	234.5	229.0
30°	4001.3	3882.4	3464.1	2179.5	1018.2	531.7	311.5	260.9	255.4	234.5	227.9
32.5°	4222.5	4105.8	3707.4	2272.0	970.9	467.8	256.5	203.6	189.3	187.1	206.9
35°	4561.5	4437.2	3915.4	2322.6	934.5	434.8	222.4	181.6	165.1	158.5	159.6
37.5°	4877.5	4792.7	4108.0	2342.4	896.0	424.9	199.2	162.9	148.6	144.2	143.1
40°	5141.6	4952.3	4290.8	2363.3	879.5	406.2	184.9	148.6	138.7	132.1	132.1
42.5°	5262.7	5070.1	4495.5	2351.2	875.1	376.5	184.9	136.5	128.8	122.2	121.1
45°	5236.3	5158.1	4586.9	2345.7	875.1	346.7	168.4	133.2	122.2	113.4	111.2
47.5°	5304.5	5202.2	4701.3	2368.8	857.5	325.8	142.0	139.8	115.6	104.6	102.4
50°	5316.7	5336.5	4900.6	2488.8	819.0	299.4	111.2	137.6	111.2	94.7	92.5
52°	5395.9	5272.6	4961.1	2552.7	778.2	279.6	93.6	117.8	106.8	88.1	85.9
52.5°	5286.9	5367.3	4975.4	2575.8	782.6	266.4	90.3	115.6	104.6	88.1	82.6
55°	5164.8	5241.8	4917.1	2625.3	717.7	209.1	70.4	83.7	94.7	77.1	73.8
57.5°	4488.9	4567.0	4273.1	2404.1	584.5	147.5	58.3	62.7	83.7	71.5	68.2
60°	3990.2	3934.1	3586.3	2005.6	415.0	82.6	46.2	48.4	91.4	66.0	64.9
62.5°	3646.8	3526.8	2997.4	1548.8	253.2	55.0	36.3	37.4	70.4	61.6	61.6
65°	2698.0	2563.7	1991.3	936.7	124.4	38.5	27.5	29.7	44.0	52.8	52.8
67.5°	1540.0	1488.2	962.1	422.7	51.7	24.2	20.9	23.1	34.1	42.9	40.7
70°	707.8	635.1	369.9	89.2	24.2	16.5	16.5	18.7	27.5	31.9	29.7
72.5°	206.9	195.9	90.3	14.3	9.9	9.9	11.0	14.3	20.9	24.2	22.0
75°	15.4	9.9	6.6	4.4	4.4	6.6	8.8	14.3	20.9	23.1	18.7
77.5°	1.1	2.2	1.1	1.1	3.3	6.6	9.9	17.6	27.5	28.6	20.9
80°	1.1	1.1	0.0	1.1	3.3	6.6	11.0	19.8	30.8	33.0	17.6
82.5°	0.0	0.0	0.0	1.1	4.4	8.8	13.2	20.9	28.6	35.2	18.7
85°	0.0	0.0	0.0	1.1	6.6	12.1	15.4	5.5	3.3	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°	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5
2.5°	2366.6	2338.0	2327.0	2336.9	2333.6	2330.3	2390.8	2377.6	2375.4	2395.2	2390.8
5°	1776.6	1726.0	1864.7	1808.5	1866.9	1902.1	1908.7	1912.0	1952.7	1909.8	1966.0
7.5°	1265.9	1279.1	1278.0	1315.4	1382.6	1442.0	1477.2	1449.7	1447.5	1442.0	1417.8
10°	1011.6	988.5	984.1	975.3	996.2	1046.8	1089.7	1055.6	1031.4	1064.4	1054.5
12.5°	826.7	794.7	777.1	741.9	743.0	777.1	777.1	777.1	801.4	820.1	834.4
15°	634.0	607.6	607.6	572.4	564.7	565.8	583.4	585.6	624.1	635.1	640.6
17.5°	443.6	429.3	445.8	460.1	451.3	453.5	460.1	462.3	467.8	463.4	474.4
20°	341.2	339.0	343.4	368.8	387.5	398.5	390.8	379.8	373.2	357.7	357.7
22.5°	289.5	293.9	301.6	322.5	346.7	353.3	344.5	319.2	299.4	297.2	298.3
25°	257.6	262.0	274.1	287.3	300.5	311.5	302.7	284.0	273.0	263.1	263.1
27.5°	237.8	240.0	246.6	256.5	267.5	276.3	273.0	263.1	251.0	246.6	236.7
30°	222.4	225.7	233.4	235.6	245.5	249.9	244.4	242.2	234.5	229.0	225.7
32.5°	214.6	213.5	219.1	221.3	222.4	225.7	219.1	222.4	221.3	212.4	209.1
35°	161.8	170.6	184.9	197.0	200.3	204.7	203.6	199.2	187.1	177.2	165.1
37.5°	145.3	150.8	158.5	168.4	181.6	187.1	184.9	173.9	159.6	153.0	150.8
40°	134.3	137.6	144.2	150.8	164.0	173.9	166.2	156.3	145.3	139.8	136.5
42.5°	124.4	125.5	128.8	135.4	145.3	160.7	147.5	134.3	129.9	126.6	124.4
45°	113.4	113.4	117.8	121.1	132.1	146.4	133.2	121.1	118.9	116.7	115.6
47.5°	104.6	105.7	107.9	112.3	121.1	131.0	122.2	112.3	106.8	105.7	103.5
50°	93.6	94.7	99.1	103.5	114.5	120.0	114.5	103.5	98.0	94.7	94.7
52°	84.8	88.1	92.5	101.3	109.0	117.8	111.2	99.1	92.5	89.2	87.0
52.5°	83.7	85.9	90.3	100.2	109.0	116.7	110.1	98.0	90.3	88.1	85.9
55°	74.9	78.2	85.9	98.0	107.9	116.7	107.9	96.9	85.9	80.4	78.2
57.5°	71.5	73.8	83.7	99.1	106.8	116.7	107.9	96.9	85.9	76.0	73.8
60°	68.2	72.6	83.7	95.8	105.7	117.8	109.0	95.8	83.7	71.5	71.5
62.5°	64.9	68.2	82.6	93.6	101.3	113.4	104.6	93.6	80.4	68.2	67.1
65°	56.1	61.6	72.6	78.2	87.0	98.0	89.2	81.5	70.4	60.5	59.4
67.5°	42.9	45.1	53.9	60.5	66.0	76.0	71.5	61.6	53.9	46.2	46.2
70°	29.7	31.9	38.5	41.8	47.3	52.8	49.5	41.8	36.3	31.9	30.8
72.5°	20.9	22.0	24.2	26.4	28.6	30.8	29.7	24.2	20.9	19.8	18.7
75°	16.5	18.7	19.8	18.7	17.6	16.5	16.5	14.3	12.1	11.0	11.0
77.5°	16.5	17.6	16.5	14.3	12.1	11.0	9.9	8.8	6.6	5.5	6.6
80°	14.3	14.3	14.3	12.1	11.0	9.9	8.8	7.7	6.6	5.5	5.5
82.5°	15.4	15.4	14.3	12.1	12.1	9.9	9.9	8.8	7.7	5.5	5.5
85°	0.0	0.0	0.0	2.2	5.5	9.9	9.9	8.8	7.7	6.6	6.6
87.5°	0.0	0.0	0.0	0.0	1.1	2.2	4.4	5.5	6.6	6.6	6.6
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°	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5
2.5°	2430.5	2472.3	2551.6	2630.8	2679.2	2736.5	2840.0	2895.0	2966.5	3001.8	3071.1
5°	1958.2	2057.3	2092.5	2182.8	2279.7	2376.5	2530.6	2700.2	2841.1	2937.9	3063.4
7.5°	1428.8	1451.9	1588.4	1648.9	1807.4	1983.6	2193.8	2407.4	2585.7	2744.2	2840.0
10°	1071.0	1155.8	1241.7	1357.2	1484.9	1666.5	1868.0	2103.5	2334.7	2493.2	2614.3
12.5°	860.8	927.9	1042.4	1166.8	1324.2	1444.2	1646.7	1880.1	2179.5	2334.7	2494.3
15°	651.6	737.5	867.4	996.2	1162.4	1289.0	1493.7	1787.6	2172.9	2386.4	2524.0
17.5°	483.2	541.6	658.3	802.5	972.0	1150.3	1426.6	1777.7	2246.6	2500.9	2642.9
20°	369.9	389.7	463.4	592.2	776.0	1009.4	1317.6	1820.7	2464.6	2779.4	2923.6
22.5°	299.4	308.2	336.8	426.0	604.3	886.1	1265.9	1850.4	2710.1	3112.9	3305.6
25°	260.9	258.7	277.4	315.9	472.2	770.5	1199.8	1962.7	3010.6	3504.8	3677.6
27.5°	237.8	237.8	246.6	274.1	391.9	695.7	1158.0	2043.0	3313.3	3849.3	3942.9
30°	225.7	227.9	253.2	262.0	325.8	606.5	1088.6	2124.5	3602.8	4069.5	4198.3
32.5°	209.1	200.3	194.8	216.8	274.1	526.2	1019.3	2158.6	3837.2	4339.2	4449.3
35°	160.7	156.3	162.9	179.4	235.6	457.9	942.2	2197.1	4106.9	4651.8	4673.8
37.5°	145.3	144.2	148.6	162.9	198.1	398.5	887.2	2187.2	4312.8	4910.5	4851.0
40°	134.3	134.3	137.6	149.7	177.2	356.6	830.0	2178.4	4512.0	5201.1	5027.2
42.5°	125.5	125.5	131.0	138.7	168.4	329.1	787.0	2166.3	4679.3	5379.4	5130.6
45°	113.4	116.7	125.5	133.2	170.6	310.4	755.1	2120.1	4736.6	5377.2	5081.1
47.5°	104.6	109.0	117.8	128.8	154.1	304.9	733.1	2079.3	4716.7	5245.1	4925.9
50°	94.7	100.2	112.3	131.0	131.0	293.9	710.0	2115.7	4702.4	5142.7	4777.3
52°	88.1	92.5	107.9	127.7	114.5	270.8	695.7	2186.1	4760.8	5129.5	4711.2
52.5°	87.0	90.3	104.6	125.5	109.0	266.4	685.8	2202.6	4779.5	5096.5	4756.4
55°	77.1	81.5	95.8	98.0	89.2	219.1	653.8	2240.0	4687.0	5031.6	4713.4
57.5°	72.6	74.9	84.8	80.4	77.1	165.1	562.5	2181.7	4163.1	4469.1	4385.4
60°	67.1	69.3	79.3	62.7	64.9	115.6	422.7	1894.4	3343.0	3723.9	3874.7
62.5°	64.9	63.8	74.9	50.6	55.0	83.7	298.3	1540.0	2575.8	3065.6	3326.5
65°	57.2	56.1	53.9	42.9	47.3	64.9	178.3	1005.0	1815.1	2319.3	2462.4
67.5°	44.0	46.2	39.6	34.1	39.6	50.6	99.1	450.2	952.2	1391.4	1506.9
70°	30.8	33.0	31.9	29.7	35.2	41.8	57.2	154.1	394.1	730.9	805.8
72.5°	18.7	23.1	24.2	25.3	30.8	36.3	40.7	49.5	104.6	258.7	321.4
75°	11.0	15.4	18.7	22.0	25.3	30.8	34.1	35.2	36.3	48.4	78.2
77.5°	7.7	11.0	16.5	20.9	25.3	30.8	36.3	38.5	36.3	34.1	36.3
80°	6.6	11.0	15.4	19.8	26.4	31.9	36.3	36.3	35.2	30.8	33.0
82.5°	6.6	11.0	16.5	20.9	25.3	30.8	35.2	36.3	33.0	30.8	31.9
85°	7.7	12.1	17.6	22.0	27.5	25.3	23.1	18.7	17.6	14.3	15.4
87.5°	7.7	11.0	11.0	12.1	13.2	13.2	13.2	12.1	9.9	8.8	8.8
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°	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5	2813.5
2.5°	3074.4	3162.5	3159.2	3161.4	3148.2	3059.0	3016.1	2907.1	2937.9	2924.7
5°	3192.2	3279.2	3354.0	3345.2	3243.9	3122.8	2943.4	2773.9	2727.7	2659.4
7.5°	3074.4	3283.6	3352.9	3343.0	3193.3	3038.1	2751.9	2582.4	2502.0	2456.9
10°	2887.3	3129.5	3215.3	3232.9	3131.7	2896.1	2633.0	2361.1	2318.2	2240.0
12.5°	2780.5	2956.6	3009.5	3056.8	3021.6	2845.5	2542.7	2281.9	2222.4	2170.7
15°	2693.6	2798.1	2820.1	2874.1	2895.0	2800.3	2590.1	2367.7	2221.3	2215.8
17.5°	2773.9	2731.0	2650.6	2667.1	2733.2	2801.4	2712.3	2537.2	2395.2	2377.6
20°	2907.1	2717.8	2536.1	2576.9	2631.9	2841.1	2897.2	2773.9	2692.5	2647.3
22.5°	3060.1	2740.9	2499.8	2519.6	2624.2	2930.2	3196.6	3128.4	2976.4	2911.5
25°	3343.0	2804.7	2528.4	2541.6	2684.7	3054.6	3467.4	3518.0	3427.8	3414.5
27.5°	3619.3	2969.8	2591.2	2561.5	2715.6	3175.7	3631.4	3903.3	3744.8	3714.0
30°	3760.2	3104.1	2684.7	2634.1	2843.3	3249.4	3730.5	4154.3	4015.6	4001.3
32.5°	3975.9	3226.3	2757.4	2692.5	2914.8	3340.8	3915.4	4428.3	4294.1	4222.5
35°	4066.2	3359.5	2917.0	2841.1	3119.5	3468.5	4010.1	4672.7	4630.9	4561.5
37.5°	4240.1	3502.6	3105.2	3100.8	3367.2	3634.7	4180.7	5005.1	4997.4	4877.5
40°	4254.4	3658.9	3402.4	3541.1	3750.3	3924.2	4330.4	5097.6	5223.1	5141.6
42.5°	4276.4	3933.0	3916.5	4031.0	4210.4	4173.0	4335.9	5119.6	5311.2	5262.7
45°	4286.3	4207.1	4439.4	4650.7	4725.6	4498.8	4284.1	5077.8	5357.4	5236.3
47.5°	4207.1	4442.7	4862.0	5270.4	5292.4	4699.1	4262.1	5034.9	5384.9	5304.5
50°	4218.1	4590.2	5227.5	5592.9	5512.6	4876.4	4228.0	5008.4	5370.6	5316.7
52°	4191.7	4593.5	5279.2	5586.3	5530.2	4778.4	4169.7	4907.2	5357.4	5395.9
52.5°	4221.4	4573.6	5225.3	5590.7	5518.1	4826.8	4162.0	4963.3	5365.1	5286.9
55°	4119.0	4338.1	4909.4	5064.6	5053.6	4381.0	3925.3	4777.3	5163.7	5164.8
57.5°	3722.8	3760.2	3850.4	3847.1	3796.5	3444.3	3357.3	4393.1	4603.4	4488.9
60°	3280.3	2753.0	2509.7	2410.7	2354.5	2297.3	2969.8	4018.9	4038.7	3990.2
62.5°	2834.4	1908.7	1585.1	1557.6	1570.8	1779.9	2870.8	3870.3	3751.4	3646.8
65°	2287.4	1391.4	1151.4	1115.1	1243.9	1469.5	2323.7	2967.6	2784.9	2698.0
67.5°	1436.5	1014.9	778.2	710.0	865.2	1011.6	1526.8	1864.7	1659.9	1540.0
70°	852.0	566.9	352.2	315.9	355.5	539.4	855.3	930.1	769.4	707.8
72.5°	335.7	208.0	98.0	83.7	87.0	189.3	314.8	307.1	232.3	206.9
75°	90.3	62.7	34.1	27.5	23.1	35.2	50.6	33.0	12.1	15.4
77.5°	41.8	37.4	29.7	23.1	17.6	13.2	6.6	2.2	2.2	1.1
80°	36.3	31.9	27.5	23.1	17.6	11.0	5.5	1.1	1.1	1.1
82.5°	34.1	29.7	25.3	20.9	16.5	11.0	5.5	1.1	0.0	0.0
85°	14.3	18.7	20.9	19.8	17.6	11.0	5.5	1.1	0.0	0.0
87.5°	7.7	6.6	5.5	4.4	3.3	2.2	2.2	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)