

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: P527457

Luminaire Tested: **GALN-SA2C-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527457
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-SA2C-727-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA 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: 6537 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

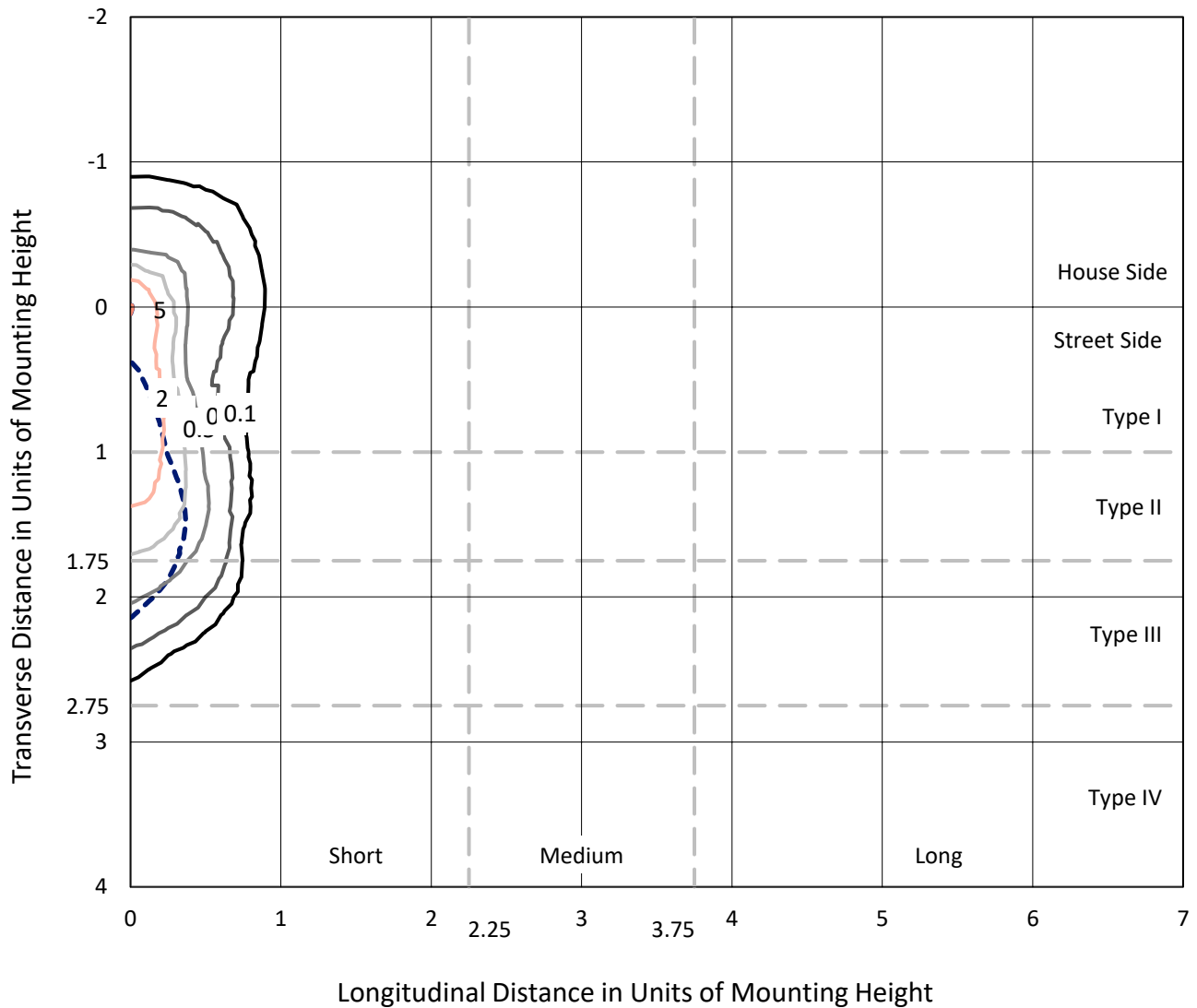
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

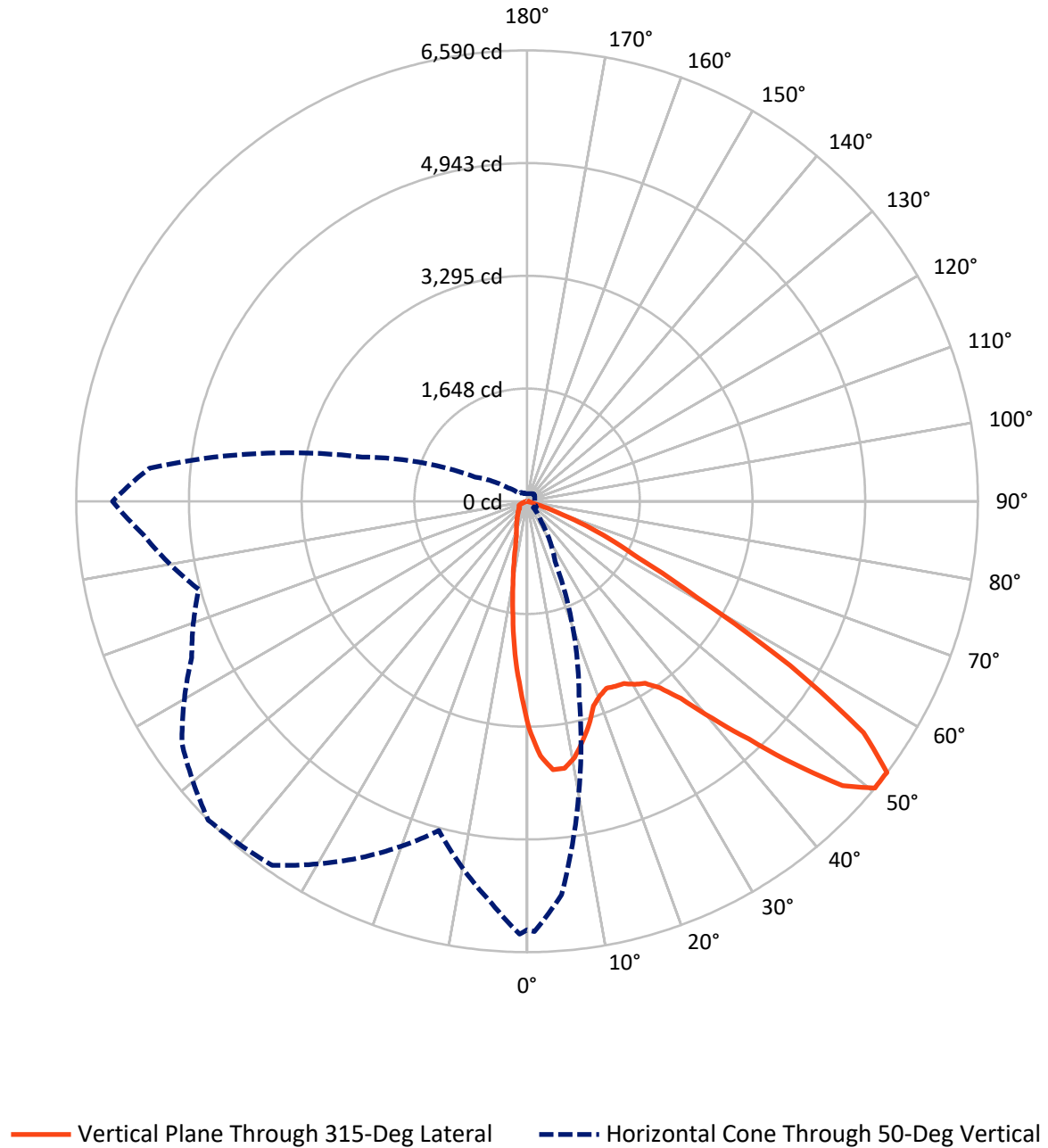
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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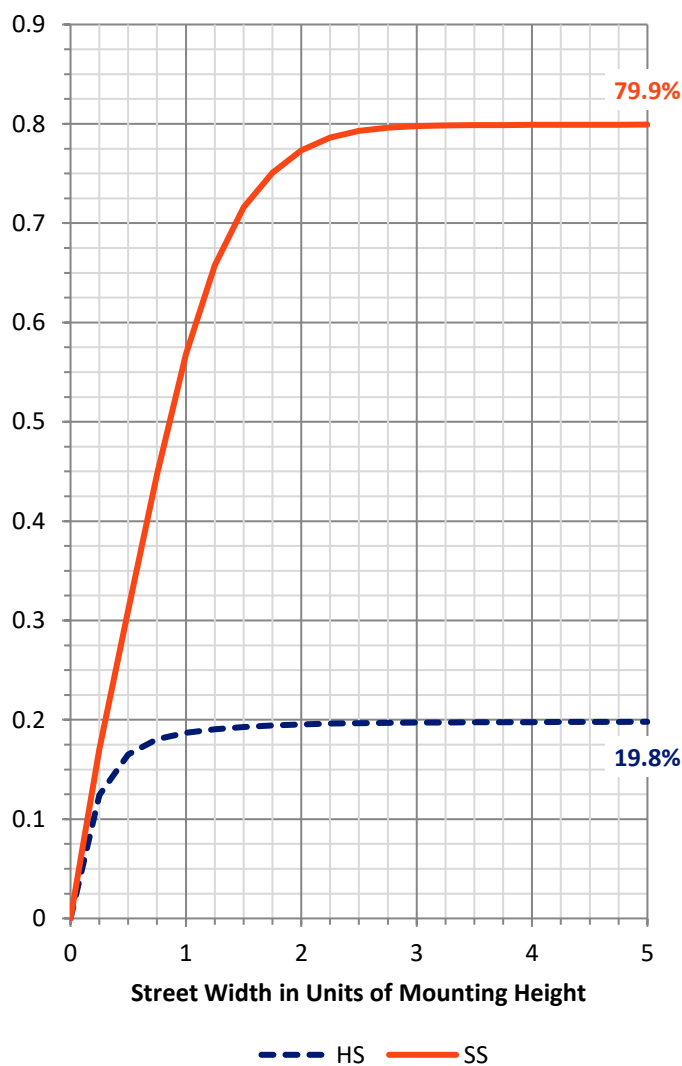
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1309.4	0.0	1309.4
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	5227.6	0.0	5227.6
	% Fixture	80.0	0.0	80.0
Total	Lumens	6537.0	0.0	6537.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.6	3.7
10°-20°	480.2	7.3
20°-30°	721.5	11.0
30°-40°	1082.9	16.6
40°-50°	1521.9	23.3
50°-60°	1641.7	25.1
60°-70°	762.2	11.7
70°-80°	71.7	1.1
80°-90°	13.2	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°	6537.0	100.0
0°-180°	6537.0	100.0

Coefficient of Utilization



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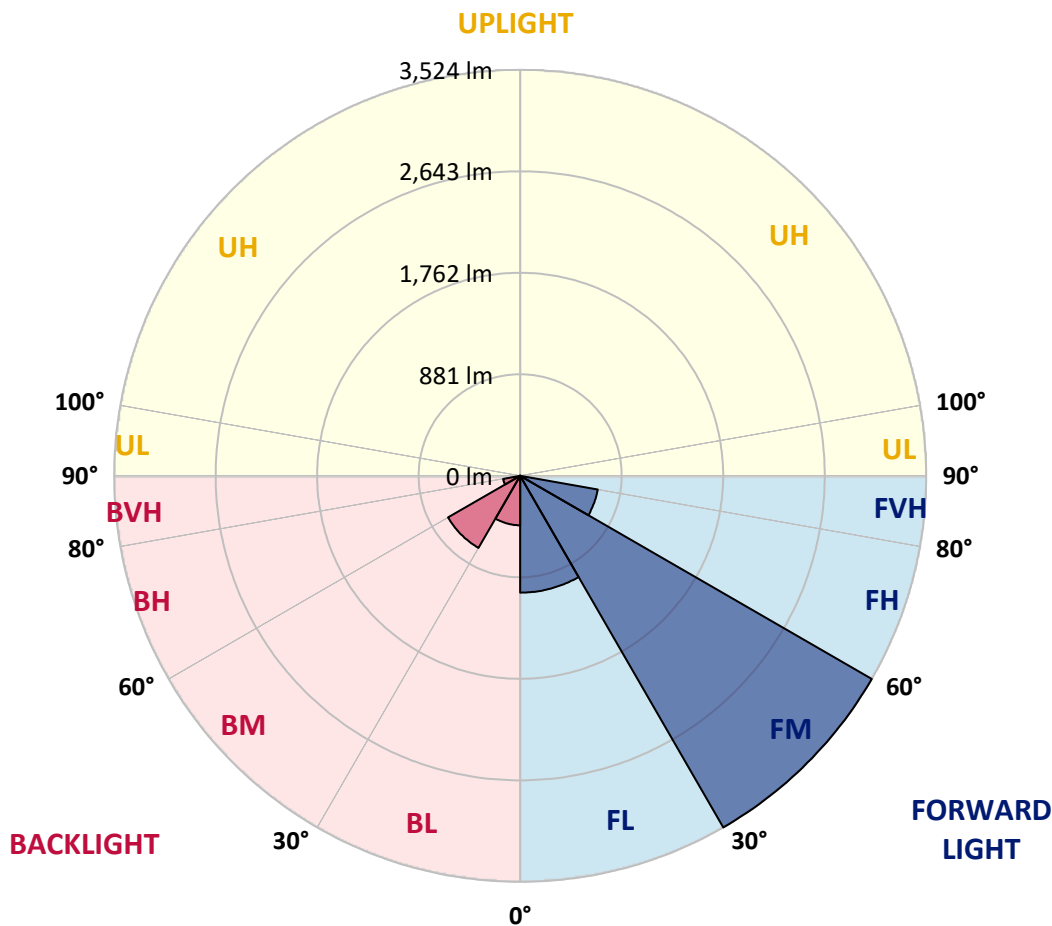
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1014.2	15.5			
FM (30°-60°)	3523.9	53.9			
FH (60°-80°)	683.6	10.5			G1/1800
FVH (80°-90°)	6.0	0.1			G0/10
BL (0°-30°)	429.2	6.6	B1/500		
BM (30°-60°)	722.6	11.1	B1/1000		
BH (60°-80°)	150.3	2.3	B1/500		G1/500
BVH (80°-90°)	7.3	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1
2.5°	3446.1	3392.9	3325.5	3269.7	3186.7	3019.4	2974.0	2919.5	2874.1	2813.2	2727.6
5°	3133.5	3116.6	3085.5	2875.4	2723.7	2521.3	2355.3	2285.3	2193.2	2118.0	2063.5
7.5°	2894.9	2827.4	2728.8	2517.4	2274.9	2058.3	1874.1	1766.5	1644.6	1603.1	1529.1
10°	2639.4	2654.9	2509.7	2212.6	1919.5	1744.4	1630.3	1526.5	1416.3	1343.7	1238.6
12.5°	2557.6	2507.1	2395.5	2028.5	1778.2	1614.7	1476.0	1347.6	1230.8	1114.1	1012.9
15°	2610.8	2533.0	2377.4	1989.6	1669.2	1465.6	1291.8	1118.0	1010.3	861.2	756.1
17.5°	2801.5	2739.2	2530.4	2031.1	1613.4	1322.9	1064.8	885.8	721.1	586.2	533.1
20°	3119.2	3031.0	2769.1	2084.2	1530.4	1150.4	863.8	643.3	487.7	430.6	400.8
22.5°	3430.5	3382.5	3051.8	2186.7	1456.5	997.4	648.5	433.2	364.5	354.1	334.6
25°	4023.2	3879.3	3483.7	2372.2	1399.4	853.4	489.0	348.9	308.7	300.9	303.5
27.5°	4376.0	4255.4	3883.2	2495.4	1335.9	743.2	413.7	320.4	293.1	276.3	269.8
30°	4714.5	4574.5	4081.6	2568.0	1199.7	626.4	367.0	307.4	300.9	276.3	268.5
32.5°	4975.2	4837.7	4368.2	2677.0	1143.9	551.2	302.2	239.9	223.1	220.5	243.8
35°	5374.7	5228.1	4613.4	2736.6	1101.1	512.3	262.0	214.0	194.5	186.8	188.1
37.5°	5746.9	5647.1	4840.3	2760.0	1055.7	500.6	234.8	192.0	175.1	169.9	168.6
40°	6058.2	5835.1	5055.6	2784.6	1036.3	478.6	217.9	175.1	163.4	155.6	155.6
42.5°	6200.9	5973.9	5296.9	2770.4	1031.1	443.6	217.9	160.8	151.7	144.0	142.7
45°	6169.7	6077.7	5404.5	2763.9	1031.1	408.5	198.4	156.9	144.0	133.6	131.0
47.5°	6250.2	6129.5	5539.4	2791.1	1010.3	383.9	167.3	164.7	136.2	123.2	120.6
50°	6264.4	6287.8	5774.2	2932.5	965.0	352.8	131.0	162.1	131.0	111.5	108.9
52°	6357.8	6212.5	5845.5	3007.7	917.0	329.4	110.2	138.8	125.8	103.8	101.2
52.5°	6229.4	6324.1	5862.4	3034.9	922.2	313.9	106.4	136.2	123.2	103.8	97.3
55°	6085.4	6176.2	5793.6	3093.3	845.6	246.4	83.0	98.6	111.5	90.8	86.9
57.5°	5289.1	5381.2	5034.9	2832.6	688.7	173.8	68.7	73.9	98.6	84.3	80.4
60°	4701.6	4635.4	4225.6	2363.1	489.0	97.3	54.5	57.1	107.6	77.8	76.5
62.5°	4296.9	4155.5	3531.7	1824.9	298.3	64.8	42.8	44.1	83.0	72.6	72.6
65°	3178.9	3020.7	2346.2	1103.7	146.6	45.4	32.4	35.0	51.9	62.3	62.3
67.5°	1814.5	1753.5	1133.6	498.0	61.0	28.5	24.6	27.2	40.2	50.6	48.0
70°	834.0	748.4	435.8	105.1	28.5	19.5	19.5	22.0	32.4	37.6	35.0
72.5°	243.8	230.9	106.4	16.9	11.7	11.7	13.0	16.9	24.6	28.5	25.9
75°	18.2	11.7	7.8	5.2	5.2	7.8	10.4	16.9	24.6	27.2	22.0
77.5°	1.3	2.6	1.3	1.3	3.9	7.8	11.7	20.8	32.4	33.7	24.6
80°	1.3	1.3	0.0	1.3	3.9	7.8	13.0	23.3	36.3	38.9	20.8
82.5°	0.0	0.0	0.0	1.3	5.2	10.4	15.6	24.6	33.7	41.5	22.0
85°	0.0	0.0	0.0	1.3	7.8	14.3	18.2	6.5	3.9	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°	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1
2.5°	2788.5	2754.8	2741.8	2753.5	2749.6	2745.7	2817.0	2801.5	2798.9	2822.2	2817.0
5°	2093.3	2033.7	2197.1	2130.9	2199.7	2241.2	2249.0	2252.9	2300.8	2250.3	2316.4
7.5°	1491.5	1507.1	1505.8	1549.9	1629.0	1699.0	1740.5	1708.1	1705.5	1699.0	1670.5
10°	1191.9	1164.7	1159.5	1149.1	1173.8	1233.4	1284.0	1243.8	1215.3	1254.2	1242.5
12.5°	974.0	936.4	915.7	874.2	875.5	915.7	915.7	915.7	944.2	966.3	983.1
15°	747.1	715.9	715.9	674.4	665.4	666.6	687.4	690.0	735.4	748.4	754.8
17.5°	522.7	505.8	525.3	542.1	531.8	534.4	542.1	544.7	551.2	546.0	559.0
20°	402.1	399.5	404.7	434.5	456.5	469.5	460.4	447.5	439.7	421.5	421.5
22.5°	341.1	346.3	355.4	380.0	408.5	416.3	406.0	376.1	352.8	350.2	351.5
25°	303.5	308.7	322.9	338.5	354.1	367.0	356.7	334.6	321.7	310.0	310.0
27.5°	280.1	282.7	290.5	302.2	315.2	325.5	321.7	310.0	295.7	290.5	278.9
30°	262.0	265.9	275.0	277.6	289.2	294.4	287.9	285.3	276.3	269.8	265.9
32.5°	252.9	251.6	258.1	260.7	262.0	265.9	258.1	262.0	260.7	250.3	246.4
35°	190.7	201.0	217.9	232.2	236.1	241.2	239.9	234.8	220.5	208.8	194.5
37.5°	171.2	177.7	186.8	198.4	214.0	220.5	217.9	204.9	188.1	180.3	177.7
40°	158.2	162.1	169.9	177.7	193.3	204.9	195.8	184.2	171.2	164.7	160.8
42.5°	146.6	147.9	151.7	159.5	171.2	189.4	173.8	158.2	153.0	149.2	146.6
45°	133.6	133.6	138.8	142.7	155.6	172.5	156.9	142.7	140.1	137.5	136.2
47.5°	123.2	124.5	127.1	132.3	142.7	154.3	144.0	132.3	125.8	124.5	121.9
50°	110.2	111.5	116.7	121.9	134.9	141.4	134.9	121.9	115.4	111.5	111.5
52°	99.9	103.8	108.9	119.3	128.4	138.8	131.0	116.7	108.9	105.1	102.5
52.5°	98.6	101.2	106.4	118.0	128.4	137.5	129.7	115.4	106.4	103.8	101.2
55°	88.2	92.1	101.2	115.4	127.1	137.5	127.1	114.1	101.2	94.7	92.1
57.5°	84.3	86.9	98.6	116.7	125.8	137.5	127.1	114.1	101.2	89.5	86.9
60°	80.4	85.6	98.6	112.8	124.5	138.8	128.4	112.8	98.6	84.3	84.3
62.5°	76.5	80.4	97.3	110.2	119.3	133.6	123.2	110.2	94.7	80.4	79.1
65°	66.1	72.6	85.6	92.1	102.5	115.4	105.1	96.0	83.0	71.3	70.0
67.5°	50.6	53.2	63.6	71.3	77.8	89.5	84.3	72.6	63.6	54.5	54.5
70°	35.0	37.6	45.4	49.3	55.8	62.3	58.4	49.3	42.8	37.6	36.3
72.5°	24.6	25.9	28.5	31.1	33.7	36.3	35.0	28.5	24.6	23.3	22.0
75°	19.5	22.0	23.3	22.0	20.8	19.5	19.5	16.9	14.3	13.0	13.0
77.5°	19.5	20.8	19.5	16.9	14.3	13.0	11.7	10.4	7.8	6.5	7.8
80°	16.9	16.9	16.9	14.3	13.0	11.7	10.4	9.1	7.8	6.5	6.5
82.5°	18.2	18.2	16.9	14.3	14.3	11.7	11.7	10.4	9.1	6.5	6.5
85°	0.0	0.0	0.0	2.6	6.5	11.7	11.7	10.4	9.1	7.8	7.8
87.5°	0.0	0.0	0.0	0.0	1.3	2.6	5.2	6.5	7.8	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1
2.5°	2863.7	2913.0	3006.4	3099.8	3156.9	3224.3	3346.2	3411.1	3495.4	3536.9	3618.6
5°	2307.3	2424.1	2465.6	2571.9	2686.0	2800.2	2981.8	3181.5	3347.5	3461.6	3609.5
7.5°	1683.5	1710.7	1871.5	1942.9	2129.6	2337.2	2584.9	2836.5	3046.6	3233.4	3346.2
10°	1262.0	1361.8	1463.0	1599.2	1749.6	1963.6	2201.0	2478.5	2750.9	2937.7	3080.3
12.5°	1014.2	1093.4	1228.2	1374.8	1560.3	1701.6	1940.3	2215.2	2568.0	2750.9	2939.0
15°	767.8	869.0	1022.0	1173.8	1369.6	1518.8	1760.0	2106.3	2560.2	2811.9	2974.0
17.5°	569.4	638.1	775.6	945.5	1145.2	1355.3	1680.9	2094.6	2647.1	2946.7	3114.1
20°	435.8	459.1	546.0	697.8	914.4	1189.3	1552.5	2145.2	2903.9	3274.9	3444.8
22.5°	352.8	363.2	396.9	501.9	712.0	1044.1	1491.5	2180.2	3193.2	3667.9	3894.8
25°	307.4	304.8	326.8	372.2	556.4	907.9	1413.7	2312.5	3547.2	4129.6	4333.2
27.5°	280.1	280.1	290.5	322.9	461.7	819.7	1364.4	2407.2	3903.9	4535.5	4645.8
30°	265.9	268.5	298.3	308.7	383.9	714.6	1282.7	2503.2	4245.0	4794.9	4946.7
32.5°	246.4	236.1	229.6	255.5	322.9	620.0	1201.0	2543.4	4521.3	5112.7	5242.4
35°	189.4	184.2	192.0	211.4	277.6	539.5	1110.2	2588.8	4839.0	5481.0	5507.0
37.5°	171.2	169.9	175.1	192.0	233.5	469.5	1045.4	2577.1	5081.6	5785.8	5715.8
40°	158.2	158.2	162.1	176.4	208.8	420.2	977.9	2566.7	5316.3	6128.2	5923.3
42.5°	147.9	147.9	154.3	163.4	198.4	387.8	927.3	2552.5	5513.5	6338.3	6045.2
45°	133.6	137.5	147.9	156.9	201.0	365.7	889.7	2498.0	5580.9	6335.8	5986.9
47.5°	123.2	128.4	138.8	151.7	181.6	359.3	863.8	2450.0	5557.6	6180.1	5804.0
50°	111.5	118.0	132.3	154.3	154.3	346.3	836.6	2492.8	5540.7	6059.5	5628.9
52°	103.8	108.9	127.1	150.4	134.9	319.1	819.7	2575.8	5609.4	6043.9	5551.1
52.5°	102.5	106.4	123.2	147.9	128.4	313.9	808.0	2595.3	5631.5	6005.0	5604.3
55°	90.8	96.0	112.8	115.4	105.1	258.1	770.4	2639.4	5522.5	5928.5	5553.7
57.5°	85.6	88.2	99.9	94.7	90.8	194.5	662.8	2570.6	4905.2	5265.7	5167.2
60°	79.1	81.7	93.4	73.9	76.5	136.2	498.0	2232.1	3938.9	4387.7	4565.4
62.5°	76.5	75.2	88.2	59.7	64.8	98.6	351.5	1814.5	3034.9	3612.1	3919.5
65°	67.4	66.1	63.6	50.6	55.8	76.5	210.1	1184.1	2138.7	2732.7	2901.3
67.5°	51.9	54.5	46.7	40.2	46.7	59.7	116.7	530.5	1121.9	1639.4	1775.6
70°	36.3	38.9	37.6	35.0	41.5	49.3	67.4	181.6	464.3	861.2	949.4
72.5°	22.0	27.2	28.5	29.8	36.3	42.8	48.0	58.4	123.2	304.8	378.7
75°	13.0	18.2	22.0	25.9	29.8	36.3	40.2	41.5	42.8	57.1	92.1
77.5°	9.1	13.0	19.5	24.6	29.8	36.3	42.8	45.4	42.8	40.2	42.8
80°	7.8	13.0	18.2	23.3	31.1	37.6	42.8	42.8	41.5	36.3	38.9
82.5°	7.8	13.0	19.5	24.6	29.8	36.3	41.5	42.8	38.9	36.3	37.6
85°	9.1	14.3	20.8	25.9	32.4	29.8	27.2	22.0	20.8	16.9	18.2
87.5°	9.1	13.0	13.0	14.3	15.6	15.6	15.6	14.3	11.7	10.4	10.4
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°	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1
2.5°	3622.5	3726.2	3722.3	3724.9	3709.4	3604.3	3553.7	3425.3	3461.6	3446.1
5°	3761.2	3863.7	3951.9	3941.5	3822.2	3679.5	3468.1	3268.4	3213.9	3133.5
7.5°	3622.5	3868.9	3950.6	3938.9	3762.5	3579.7	3242.5	3042.7	2948.0	2894.9
10°	3402.0	3687.3	3788.5	3809.2	3689.9	3412.4	3102.4	2782.0	2731.4	2639.4
12.5°	3276.2	3483.7	3545.9	3601.7	3560.2	3352.7	2996.0	2688.6	2618.6	2557.6
15°	3173.7	3296.9	3322.9	3386.4	3411.1	3299.5	3051.8	2789.8	2617.3	2610.8
17.5°	3268.4	3217.8	3123.1	3142.6	3220.4	3300.8	3195.8	2989.5	2822.2	2801.5
20°	3425.3	3202.2	2988.2	3036.2	3101.1	3347.5	3413.7	3268.4	3172.4	3119.2
22.5°	3605.6	3229.5	2945.4	2968.8	3092.0	3452.6	3766.4	3686.0	3507.0	3430.5
25°	3938.9	3304.7	2979.2	2994.7	3163.3	3599.1	4085.5	4145.2	4038.8	4023.2
27.5°	4264.5	3499.3	3053.1	3018.1	3199.7	3741.8	4278.7	4599.1	4412.3	4376.0
30°	4430.5	3657.5	3163.3	3103.7	3350.1	3828.7	4395.5	4894.8	4731.4	4714.5
32.5°	4684.7	3801.5	3248.9	3172.4	3434.4	3936.3	4613.4	5217.8	5059.5	4975.2
35°	4791.0	3958.4	3437.0	3347.5	3675.6	4086.8	4724.9	5505.7	5456.4	5374.7
37.5°	4996.0	4127.0	3658.8	3653.6	3967.5	4282.6	4925.9	5897.4	5888.3	5746.9
40°	5012.8	4311.2	4009.0	4172.4	4418.8	4623.7	5102.3	6006.3	6154.2	6058.2
42.5°	5038.8	4634.1	4614.7	4749.5	4961.0	4916.9	5108.8	6032.3	6257.9	6200.9
45°	5050.4	4957.1	5230.7	5479.7	5567.9	5300.8	5047.8	5983.0	6312.4	6169.7
47.5°	4957.1	5234.6	5728.8	6209.9	6235.9	5536.8	5021.9	5932.4	6344.8	6250.2
50°	4970.0	5408.4	6159.4	6590.0	6495.3	5745.6	4981.7	5901.3	6328.0	6264.4
52°	4938.9	5412.3	6220.3	6582.2	6516.0	5630.2	4913.0	5781.9	6312.4	6357.8
52.5°	4973.9	5389.0	6156.8	6587.4	6501.8	5687.3	4903.9	5848.1	6321.5	6229.4
55°	4853.3	5111.4	5784.5	5967.4	5954.4	5162.0	4625.0	5628.9	6084.1	6085.4
57.5°	4386.4	4430.5	4536.8	4532.9	4473.3	4058.3	3955.8	5176.3	5424.0	5289.1
60°	3865.0	3243.7	2957.1	2840.4	2774.2	2706.8	3499.3	4735.3	4758.6	4701.6
62.5°	3339.7	2249.0	1867.7	1835.2	1850.8	2097.2	3382.5	4560.2	4420.1	4296.9
65°	2695.1	1639.4	1356.6	1313.8	1465.6	1731.5	2737.9	3496.7	3281.4	3178.9
67.5°	1692.6	1195.8	917.0	836.6	1019.4	1191.9	1798.9	2197.1	1955.8	1814.5
70°	1003.9	667.9	415.0	372.2	418.9	635.5	1007.8	1095.9	906.6	834.0
72.5°	395.6	245.1	115.4	98.6	102.5	223.1	370.9	361.9	273.7	243.8
75°	106.4	73.9	40.2	32.4	27.2	41.5	59.7	38.9	14.3	18.2
77.5°	49.3	44.1	35.0	27.2	20.8	15.6	7.8	2.6	2.6	1.3
80°	42.8	37.6	32.4	27.2	20.8	13.0	6.5	1.3	1.3	1.3
82.5°	40.2	35.0	29.8	24.6	19.5	13.0	6.5	1.3	0.0	0.0
85°	16.9	22.0	24.6	23.3	20.8	13.0	6.5	1.3	0.0	0.0
87.5°	9.1	7.8	6.5	5.2	3.9	2.6	2.6	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)