

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: P532293

Luminaire Tested: **GALN-SA7C-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532293
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-SA7C-827-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 19901 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

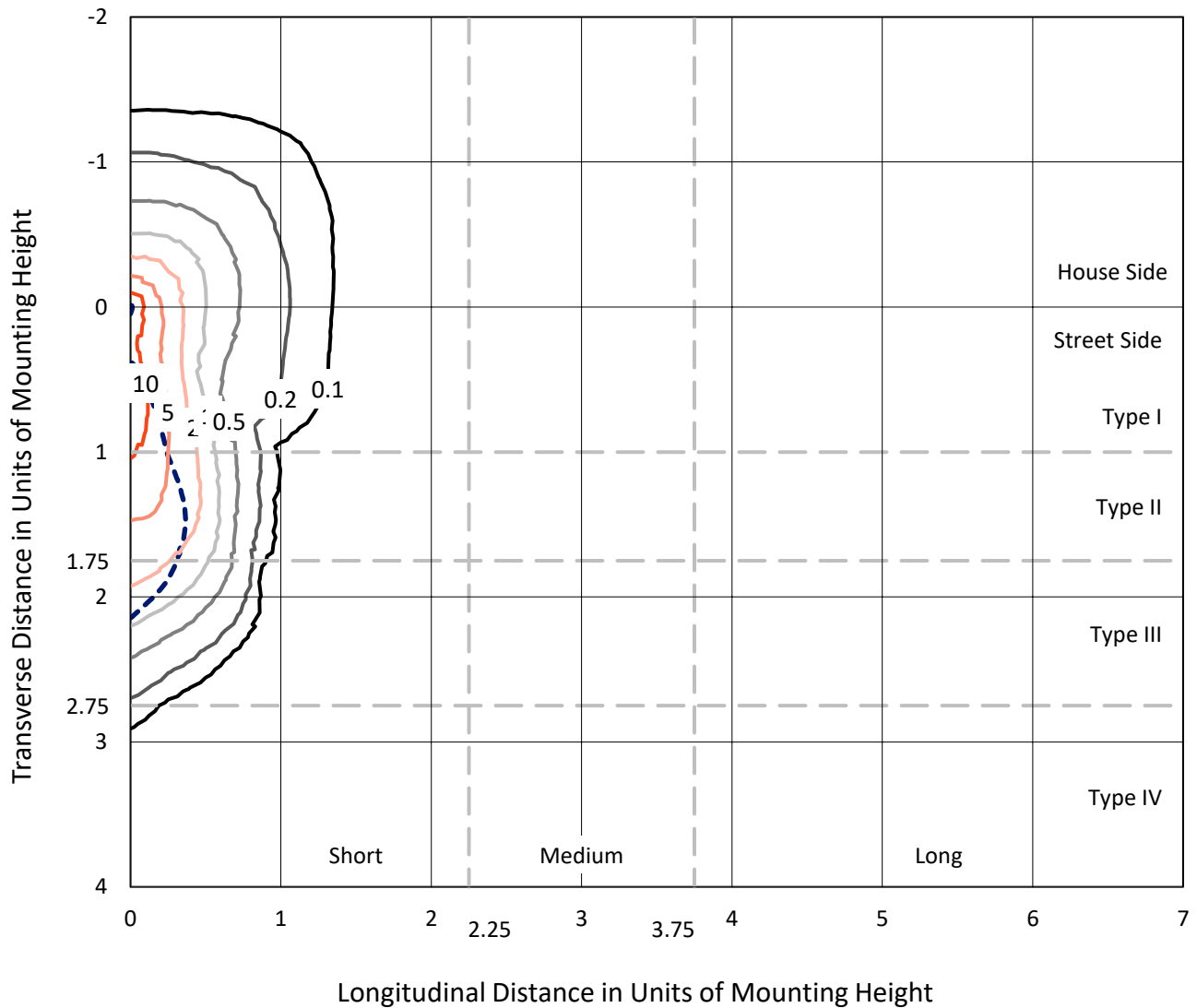
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

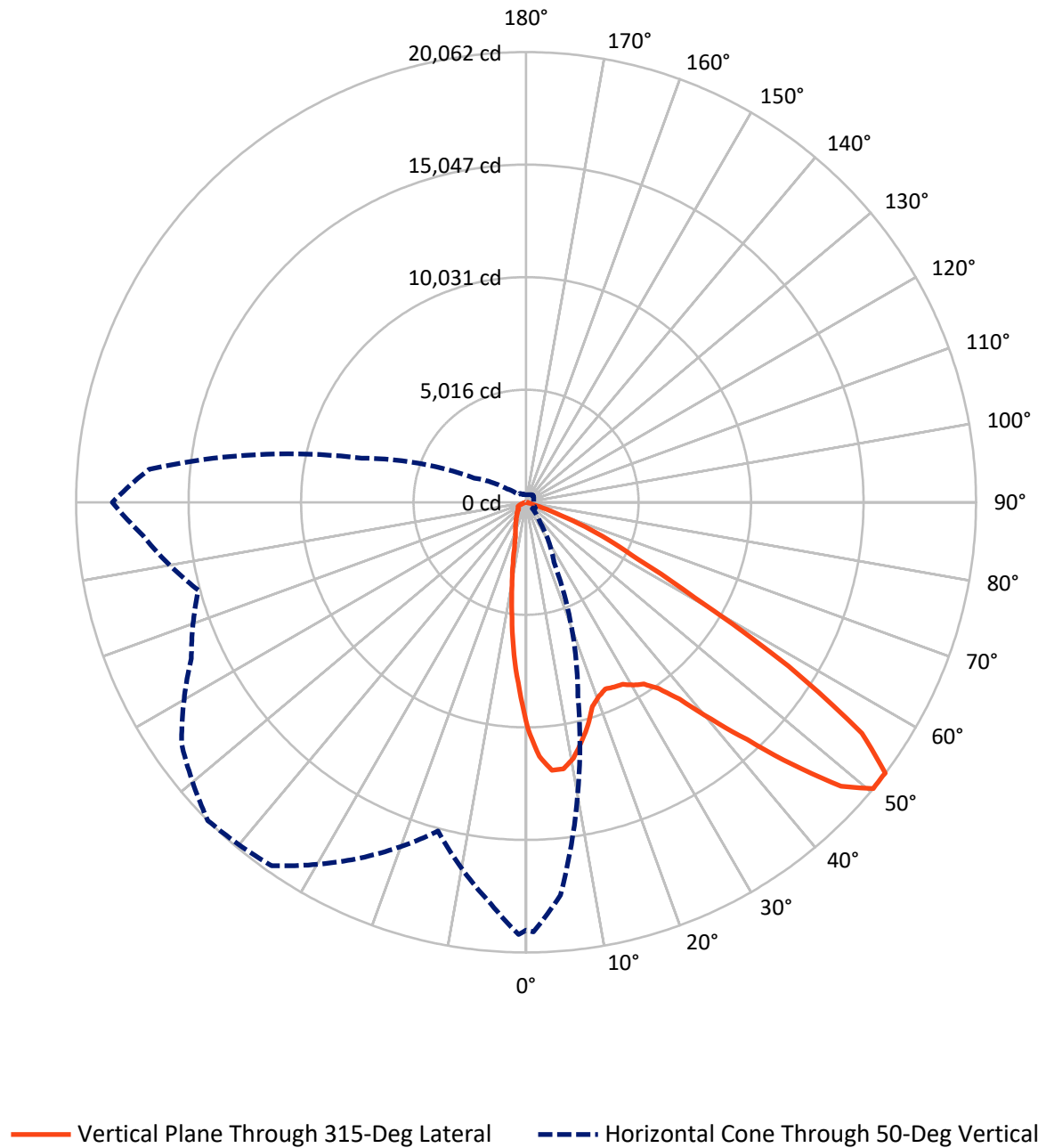
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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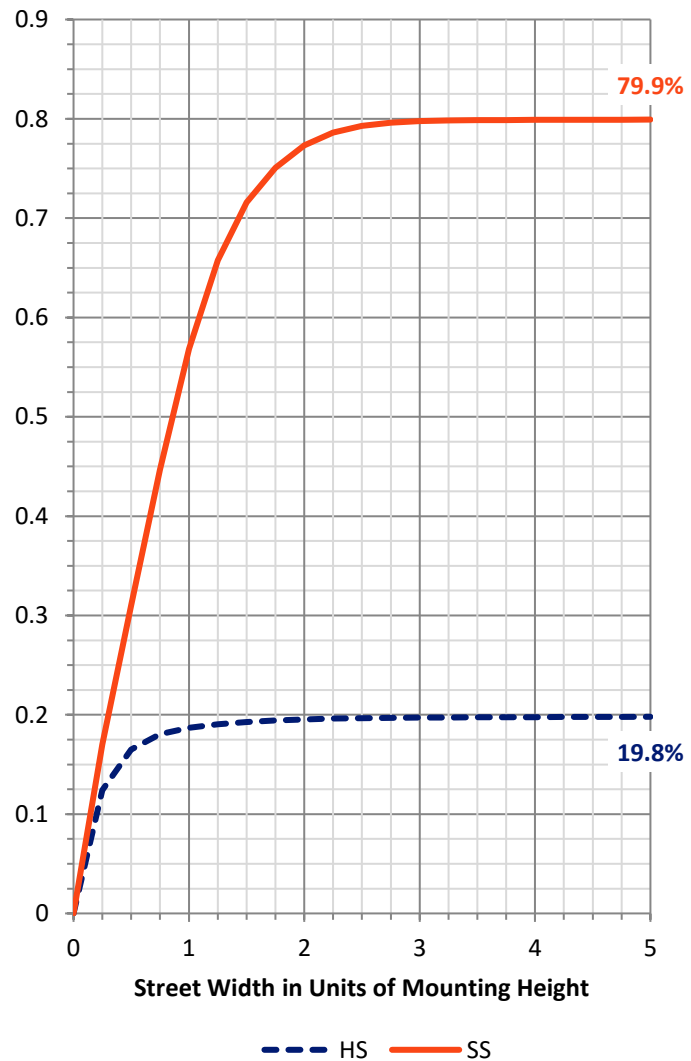
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3986.2	0.0	3986.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	15914.8	0.0	15914.8
	% Fixture	80.0	0.0	80.0
Total	Lumens	19901.0	0.0	19901.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.6	3.7
10°-20°	1462.0	7.3
20°-30°	2196.4	11.0
30°-40°	3296.7	16.6
40°-50°	4633.3	23.3
50°-60°	4997.9	25.1
60°-70°	2320.5	11.7
70°-80°	218.3	1.1
80°-90°	40.2	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°	19901.0	100.0
0°-180°	19901.0	100.0



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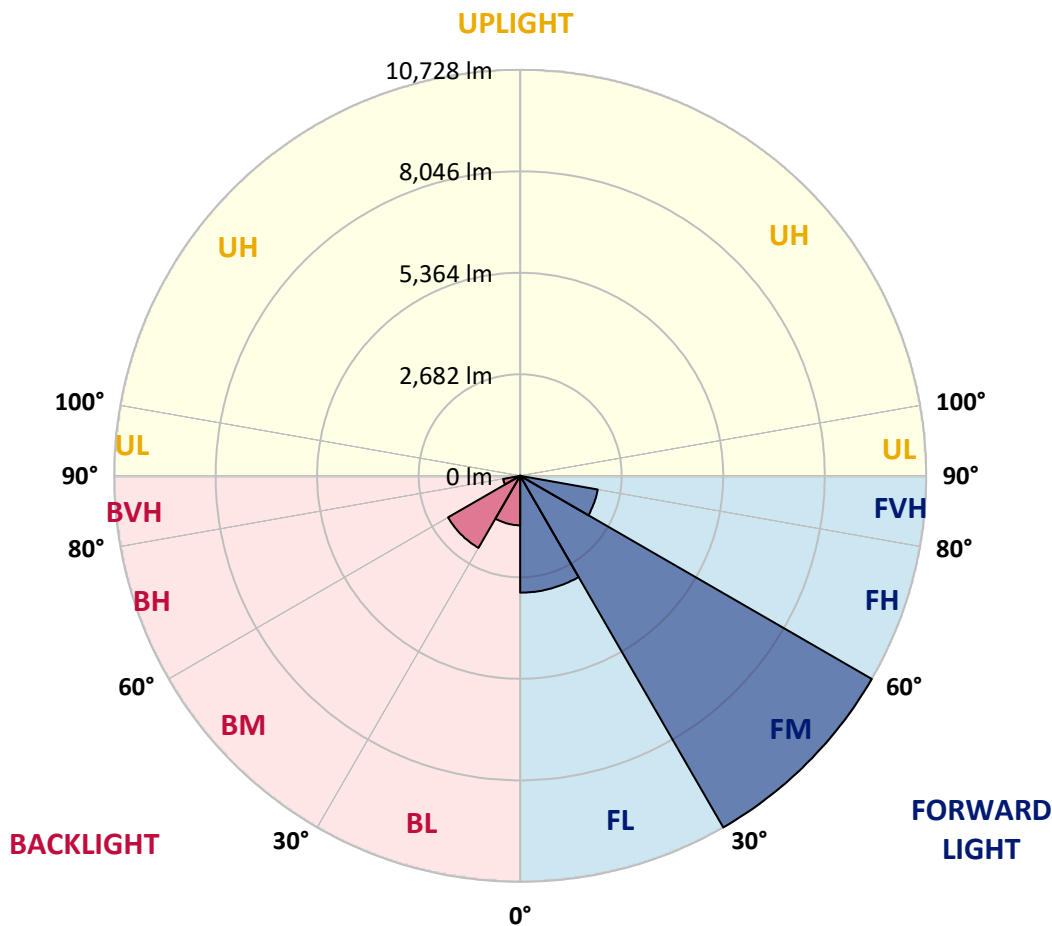
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3087.5	15.5			
FM (30°-60°)	10728.1	53.9			
FH (60°-80°)	2081.1	10.5			G2/5000
FVH (80°-90°)	18.1	0.1			G1/100
BL (0°-30°)	1306.6	6.6	B3/2500		
BM (30°-60°)	2199.8	11.1	B2/2500		
BH (60°-80°)	457.7	2.3	B1/500		G1/500
BVH (80°-90°)	22.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3
2.5°	10491.1	10329.2	10123.9	9954.1	9701.4	9192.1	9053.9	8888.0	8749.8	8564.3	8303.7
5°	9539.5	9488.2	9393.4	8753.8	8291.8	7675.8	7170.4	6957.2	6676.9	6447.9	6282.0
7.5°	8813.0	8607.7	8307.6	7664.0	6925.6	6266.2	5705.6	5377.8	5006.7	4880.3	4655.3
10°	8035.2	8082.5	7640.3	6736.1	5843.8	5310.7	4963.2	4647.4	4311.7	4090.6	3770.8
12.5°	7786.4	7632.4	7292.8	6175.4	5413.4	4915.9	4493.4	4102.5	3747.1	3391.7	3083.8
15°	7948.3	7711.4	7237.6	6057.0	5081.7	4461.8	3932.7	3403.6	3075.9	2621.8	2302.0
17.5°	8528.7	8339.2	7703.5	6183.3	4911.9	4027.4	3241.7	2696.8	2195.4	1784.7	1622.8
20°	9496.1	9227.6	8430.0	6345.2	4659.2	3502.3	2629.7	1958.4	1484.6	1310.9	1220.1
22.5°	10443.7	10297.6	9290.8	6657.1	4434.1	3036.4	1974.2	1318.8	1109.5	1077.9	1018.7
25°	12248.2	11809.9	10605.6	7221.8	4260.4	2598.1	1488.6	1062.1	939.7	916.0	923.9
27.5°	13322.2	12955.0	11821.7	7596.9	4066.9	2262.5	1259.6	975.3	892.4	841.0	821.3
30°	14352.7	13926.3	12425.9	7818.0	3652.3	1907.1	1117.4	935.8	916.0	841.0	817.3
32.5°	15146.4	14727.8	13298.5	8149.7	3482.6	1678.1	920.0	730.5	679.1	671.2	742.3
35°	16362.5	15916.3	14044.7	8331.3	3352.3	1559.6	797.6	651.5	592.3	568.6	572.5
37.5°	17495.7	17191.7	14735.7	8402.4	3214.1	1524.1	714.7	584.4	533.0	517.3	513.3
40°	18443.4	17764.2	15391.2	8477.4	3154.8	1457.0	663.3	533.0	497.5	473.8	473.8
42.5°	18877.7	18186.7	16125.6	8434.0	3139.0	1350.4	663.3	489.6	462.0	438.3	434.3
45°	18782.9	18502.6	16453.3	8414.2	3139.0	1243.8	604.1	477.8	438.3	406.7	398.8
47.5°	19027.7	18660.5	16864.0	8497.1	3075.9	1168.8	509.4	501.5	414.6	375.1	367.2
50°	19071.2	19142.2	17578.6	8927.5	2937.7	1074.0	398.8	493.6	398.8	339.6	331.7
52°	19355.5	18913.2	17795.8	9156.5	2791.6	1002.9	335.6	422.5	383.0	315.9	308.0
52.5°	18964.6	19252.8	17847.1	9239.4	2807.4	955.5	323.8	414.6	375.1	315.9	296.1
55°	18526.3	18802.7	17637.9	9417.1	2574.4	750.2	252.7	300.1	339.6	276.4	264.5
57.5°	16101.9	16382.2	15328.0	8623.5	2096.6	529.1	209.3	225.1	300.1	256.7	244.8
60°	14313.2	14111.9	12864.1	7194.1	1488.6	296.1	165.8	173.7	327.7	236.9	233.0
62.5°	13081.3	12650.9	10751.7	5555.5	908.2	197.4	130.3	134.2	252.7	221.1	221.1
65°	9677.7	9196.0	7142.8	3360.2	446.2	138.2	98.7	106.6	157.9	189.5	189.5
67.5°	5523.9	5338.3	3451.0	1516.2	185.6	86.9	75.0	82.9	122.4	154.0	146.1
70°	2538.9	2278.3	1326.7	319.8	86.9	59.2	59.2	67.1	98.7	114.5	106.6
72.5°	742.3	702.8	323.8	51.3	35.5	35.5	39.5	51.3	75.0	86.9	79.0
75°	55.3	35.5	23.7	15.8	15.8	23.7	31.6	51.3	75.0	82.9	67.1
77.5°	3.9	7.9	3.9	3.9	11.8	23.7	35.5	63.2	98.7	102.7	75.0
80°	3.9	3.9	0.0	3.9	11.8	23.7	39.5	71.1	110.6	118.5	63.2
82.5°	0.0	0.0	0.0	3.9	15.8	31.6	47.4	75.0	102.7	126.4	67.1
85°	0.0	0.0	0.0	3.9	23.7	43.4	55.3	19.7	11.8	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°	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3
2.5°	8489.2	8386.6	8347.1	8382.6	8370.8	8358.9	8576.1	8528.7	8520.8	8591.9	8576.1
5°	6372.8	6191.2	6688.7	6487.4	6696.6	6823.0	6846.7	6858.5	7004.6	6850.6	7052.0
7.5°	4540.8	4588.1	4584.2	4718.4	4959.3	5172.5	5298.9	5200.1	5192.3	5172.5	5085.6
10°	3628.7	3545.7	3529.9	3498.4	3573.4	3755.0	3909.0	3786.6	3699.7	3818.2	3782.6
12.5°	2965.3	2850.8	2787.6	2661.3	2665.2	2787.6	2787.6	2787.6	2874.5	2941.6	2992.9
15°	2274.3	2179.6	2179.6	2053.2	2025.6	2029.5	2092.7	2100.6	2238.8	2278.3	2298.0
17.5°	1591.2	1539.9	1599.1	1650.5	1618.9	1626.8	1650.5	1658.4	1678.1	1662.3	1701.8
20°	1224.0	1216.1	1231.9	1322.7	1389.9	1429.3	1401.7	1362.2	1338.5	1283.3	1283.3
22.5°	1038.5	1054.2	1081.9	1156.9	1243.8	1267.5	1235.9	1145.1	1074.0	1066.1	1070.0
25°	923.9	939.7	983.2	1030.6	1077.9	1117.4	1085.8	1018.7	979.2	943.7	943.7
27.5°	852.9	860.8	884.5	920.0	959.5	991.1	979.2	943.7	900.3	884.5	848.9
30°	797.6	809.4	837.1	845.0	880.5	896.3	876.6	868.7	841.0	821.3	809.4
32.5°	770.0	766.0	785.7	793.6	797.6	809.4	785.7	797.6	793.6	762.1	750.2
35°	580.4	612.0	663.3	706.8	718.6	734.4	730.5	714.7	671.2	635.7	592.3
37.5°	521.2	540.9	568.6	604.1	651.5	671.2	663.3	623.9	572.5	548.8	540.9
40°	481.7	493.6	517.3	540.9	588.3	623.9	596.2	560.7	521.2	501.5	489.6
42.5°	446.2	450.1	462.0	485.7	521.2	576.5	529.1	481.7	465.9	454.1	446.2
45°	406.7	406.7	422.5	434.3	473.8	525.1	477.8	434.3	426.4	418.5	414.6
47.5°	375.1	379.1	387.0	402.7	434.3	469.9	438.3	402.7	383.0	379.1	371.2
50°	335.6	339.6	355.4	371.2	410.6	430.4	410.6	371.2	351.4	339.6	339.6
52°	304.0	315.9	331.7	363.3	390.9	422.5	398.8	355.4	331.7	319.8	311.9
52.5°	300.1	308.0	323.8	359.3	390.9	418.5	394.8	351.4	323.8	315.9	308.0
55°	268.5	280.3	308.0	351.4	387.0	418.5	387.0	347.5	308.0	288.2	280.3
57.5°	256.7	264.5	300.1	355.4	383.0	418.5	387.0	347.5	308.0	272.4	264.5
60°	244.8	260.6	300.1	343.5	379.1	422.5	390.9	343.5	300.1	256.7	256.7
62.5°	233.0	244.8	296.1	335.6	363.3	406.7	375.1	335.6	288.2	244.8	240.9
65°	201.4	221.1	260.6	280.3	311.9	351.4	319.8	292.2	252.7	217.2	213.2
67.5°	154.0	161.9	193.5	217.2	236.9	272.4	256.7	221.1	193.5	165.8	165.8
70°	106.6	114.5	138.2	150.0	169.8	189.5	177.7	150.0	130.3	114.5	110.6
72.5°	75.0	79.0	86.9	94.8	102.7	110.6	106.6	86.9	75.0	71.1	67.1
75°	59.2	67.1	71.1	67.1	63.2	59.2	59.2	51.3	43.4	39.5	39.5
77.5°	59.2	63.2	59.2	51.3	43.4	39.5	35.5	31.6	23.7	19.7	23.7
80°	51.3	51.3	51.3	43.4	39.5	35.5	31.6	27.6	23.7	19.7	19.7
82.5°	55.3	55.3	51.3	43.4	43.4	35.5	35.5	31.6	27.6	19.7	19.7
85°	0.0	0.0	0.0	7.9	19.7	35.5	35.5	31.6	27.6	23.7	23.7
87.5°	0.0	0.0	0.0	0.0	3.9	7.9	15.8	19.7	23.7	23.7	23.7
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°	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3
2.5°	8718.2	8868.3	9152.6	9436.9	9610.6	9815.9	10187.1	10384.5	10641.2	10767.5	11016.3
5°	7024.3	7379.7	7506.1	7829.8	8177.3	8524.8	9077.6	9685.6	10191.0	10538.5	10988.6
7.5°	5125.1	5208.0	5697.7	5914.8	6483.4	7115.2	7869.3	8635.3	9275.0	9843.6	10187.1
10°	3841.9	4145.9	4453.9	4868.5	5326.5	5978.0	6700.6	7545.5	8374.7	8943.3	9377.6
12.5°	3087.7	3328.6	3739.2	4185.4	4750.0	5180.4	5906.9	6744.0	7818.0	8374.7	8947.3
15°	2337.5	2645.5	3111.4	3573.4	4169.6	4623.7	5358.1	6412.3	7794.3	8560.3	9053.9
17.5°	1733.4	1942.7	2361.2	2878.4	3486.5	4126.2	5117.2	6376.8	8058.8	8970.9	9480.3
20°	1326.7	1397.8	1662.3	2124.3	2783.7	3620.8	4726.3	6530.8	8840.6	9969.9	10487.2
22.5°	1074.0	1105.6	1208.2	1528.1	2167.7	3178.5	4540.8	6637.4	9721.2	11166.3	11857.3
25°	935.8	927.9	995.0	1133.2	1693.9	2763.9	4303.8	7040.1	10799.1	12572.0	13191.9
27.5°	852.9	852.9	884.5	983.2	1405.7	2495.4	4153.8	7328.4	11884.9	13807.8	14143.5
30°	809.4	817.3	908.2	939.7	1168.8	2175.6	3905.0	7620.6	12923.4	14597.5	15059.5
32.5°	750.2	718.6	698.9	777.9	983.2	1887.4	3656.3	7743.0	13764.4	15564.9	15959.8
35°	576.5	560.7	584.4	643.6	845.0	1642.6	3379.9	7881.2	14731.8	16686.3	16765.2
37.5°	521.2	517.3	533.0	584.4	710.7	1429.3	3182.5	7845.6	15470.1	17614.2	17401.0
40°	481.7	481.7	493.6	537.0	635.7	1279.3	2977.2	7814.0	16184.8	18656.6	18032.7
42.5°	450.1	450.1	469.9	497.5	604.1	1180.6	2823.2	7770.6	16785.0	19296.2	18403.9
45°	406.7	418.5	450.1	477.8	612.0	1113.5	2708.7	7604.8	16990.3	19288.3	18226.2
47.5°	375.1	390.9	422.5	462.0	552.8	1093.7	2629.7	7458.7	16919.2	18814.5	17669.4
50°	339.6	359.3	402.7	469.9	469.9	1054.2	2546.8	7589.0	16867.9	18447.3	17136.4
52°	315.9	331.7	387.0	458.0	410.6	971.3	2495.4	7841.7	17077.2	18399.9	16899.5
52.5°	311.9	323.8	375.1	450.1	390.9	955.5	2459.9	7900.9	17144.3	18281.5	17061.4
55°	276.4	292.2	343.5	351.4	319.8	785.7	2345.4	8035.2	16812.6	18048.5	16907.4
57.5°	260.6	268.5	304.0	288.2	276.4	592.3	2017.7	7825.9	14933.2	16030.8	15730.7
60°	240.9	248.8	284.3	225.1	233.0	414.6	1516.2	6795.3	11991.5	13357.7	13898.7
62.5°	233.0	229.0	268.5	181.6	197.4	300.1	1070.0	5523.9	9239.4	10996.5	11932.3
65°	205.3	201.4	193.5	154.0	169.8	233.0	639.7	3605.0	6511.0	8319.4	8832.8
67.5°	157.9	165.8	142.1	122.4	142.1	181.6	355.4	1614.9	3415.4	4990.9	5405.5
70°	110.6	118.5	114.5	106.6	126.4	150.0	205.3	552.8	1413.6	2621.8	2890.3
72.5°	67.1	82.9	86.9	90.8	110.6	130.3	146.1	177.7	375.1	927.9	1153.0
75°	39.5	55.3	67.1	79.0	90.8	110.6	122.4	126.4	130.3	173.7	280.3
77.5°	27.6	39.5	59.2	75.0	90.8	110.6	130.3	138.2	130.3	122.4	130.3
80°	23.7	39.5	55.3	71.1	94.8	114.5	130.3	130.3	126.4	110.6	118.5
82.5°	23.7	39.5	59.2	75.0	90.8	110.6	126.4	130.3	118.5	110.6	114.5
85°	27.6	43.4	63.2	79.0	98.7	90.8	82.9	67.1	63.2	51.3	55.3
87.5°	27.6	39.5	39.5	43.4	47.4	47.4	47.4	43.4	35.5	31.6	31.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3	10092.3
2.5°	11028.1	11344.0	11332.1	11340.0	11292.7	10972.8	10818.8	10427.9	10538.5	10491.1
5°	11450.6	11762.5	12031.0	11999.4	11636.2	11201.8	10558.2	9950.2	9784.3	9539.5
7.5°	11028.1	11778.3	12027.1	11991.5	11454.5	10897.8	9871.2	9263.1	8974.9	8813.0
10°	10356.9	11225.5	11533.5	11596.7	11233.4	10388.5	9444.8	8469.5	8315.5	8035.2
12.5°	9973.9	10605.6	10795.1	10964.9	10838.6	10206.8	9121.0	8185.2	7972.0	7786.4
15°	9661.9	10037.0	10116.0	10309.5	10384.5	10044.9	9290.8	8493.2	7968.0	7948.3
17.5°	9950.2	9796.2	9507.9	9567.2	9804.1	10048.9	9729.1	9101.2	8591.9	8528.7
20°	10427.9	9748.8	9097.3	9243.4	9440.8	10191.0	10392.4	9950.2	9658.0	9496.1
22.5°	10976.8	9831.7	8967.0	9038.1	9413.2	10510.9	11466.4	11221.6	10676.7	10443.7
25°	11991.5	10060.7	9069.7	9117.0	9630.3	10957.0	12437.7	12619.3	12295.6	12248.2
27.5°	12982.6	10653.0	9294.7	9188.1	9740.9	11391.4	13026.0	14001.3	13432.7	13322.2
30°	13488.0	11134.7	9630.3	9448.7	10198.9	11655.9	13381.4	14901.6	14404.1	14352.7
32.5°	14261.9	11573.0	9890.9	9658.0	10455.6	11983.6	14044.7	15884.7	15403.0	15146.4
35°	14585.7	12050.8	10463.5	10191.0	11190.0	12441.7	14384.3	16761.3	16611.3	16362.5
37.5°	15209.5	12564.1	11138.7	11122.9	12078.4	13037.9	14996.3	17953.7	17926.1	17495.7
40°	15260.9	13124.7	12204.8	12702.3	13452.5	14076.3	15533.3	18285.4	18735.5	18443.4
42.5°	15339.8	14107.9	14048.7	14459.3	15102.9	14968.7	15553.1	18364.4	19051.4	18877.7
45°	15375.4	15091.1	15924.2	16682.3	16950.8	16137.4	15367.5	18214.3	19217.3	18782.9
47.5°	15091.1	15936.1	17440.4	18905.3	18984.3	16856.1	15288.5	18060.3	19316.0	19027.7
50°	15130.6	16465.2	18751.3	20062.2	19774.0	17491.8	15166.1	17965.6	19264.6	19071.2
52°	15035.8	16477.0	18936.9	20038.5	19837.2	17140.4	14956.8	17602.3	19217.3	19355.5
52.5°	15142.4	16405.9	18743.4	20054.3	19793.7	17314.1	14929.2	17803.7	19244.9	18964.6
55°	14775.2	15561.0	17610.2	18167.0	18127.5	15715.0	14080.3	17136.4	18522.3	18526.3
57.5°	13353.8	13488.0	13811.8	13799.9	13618.3	12354.8	12042.9	15758.4	16512.5	16101.9
60°	11766.5	9875.1	9002.5	8647.2	8445.8	8240.5	10653.0	14415.9	14487.0	14313.2
62.5°	10167.3	6846.7	5685.8	5587.1	5634.5	6384.7	10297.6	13882.9	13456.4	13081.3
65°	8204.9	4990.9	4130.1	3999.8	4461.8	5271.2	8335.2	10645.1	9989.7	9677.7
67.5°	5152.8	3640.5	2791.6	2546.8	3103.5	3628.7	5476.5	6688.7	5954.3	5523.9
70°	3056.1	2033.5	1263.5	1133.2	1275.4	1934.8	3068.0	3336.5	2760.0	2538.9
72.5°	1204.3	746.3	351.4	300.1	311.9	679.1	1129.3	1101.6	833.1	742.3
75°	323.8	225.1	122.4	98.7	82.9	126.4	181.6	118.5	43.4	55.3
77.5°	150.0	134.2	106.6	82.9	63.2	47.4	23.7	7.9	7.9	3.9
80°	130.3	114.5	98.7	82.9	63.2	39.5	19.7	3.9	3.9	3.9
82.5°	122.4	106.6	90.8	75.0	59.2	39.5	19.7	3.9	0.0	0.0
85°	51.3	67.1	75.0	71.1	63.2	39.5	19.7	3.9	0.0	0.0
87.5°	27.6	23.7	19.7	15.8	11.8	7.9	7.9	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)