

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: P528549

Luminaire Tested: **GALN-SA3C-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528549
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-SA3C-827-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 8529 lumens
Efficiency: N/A
Efficacy: 53.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

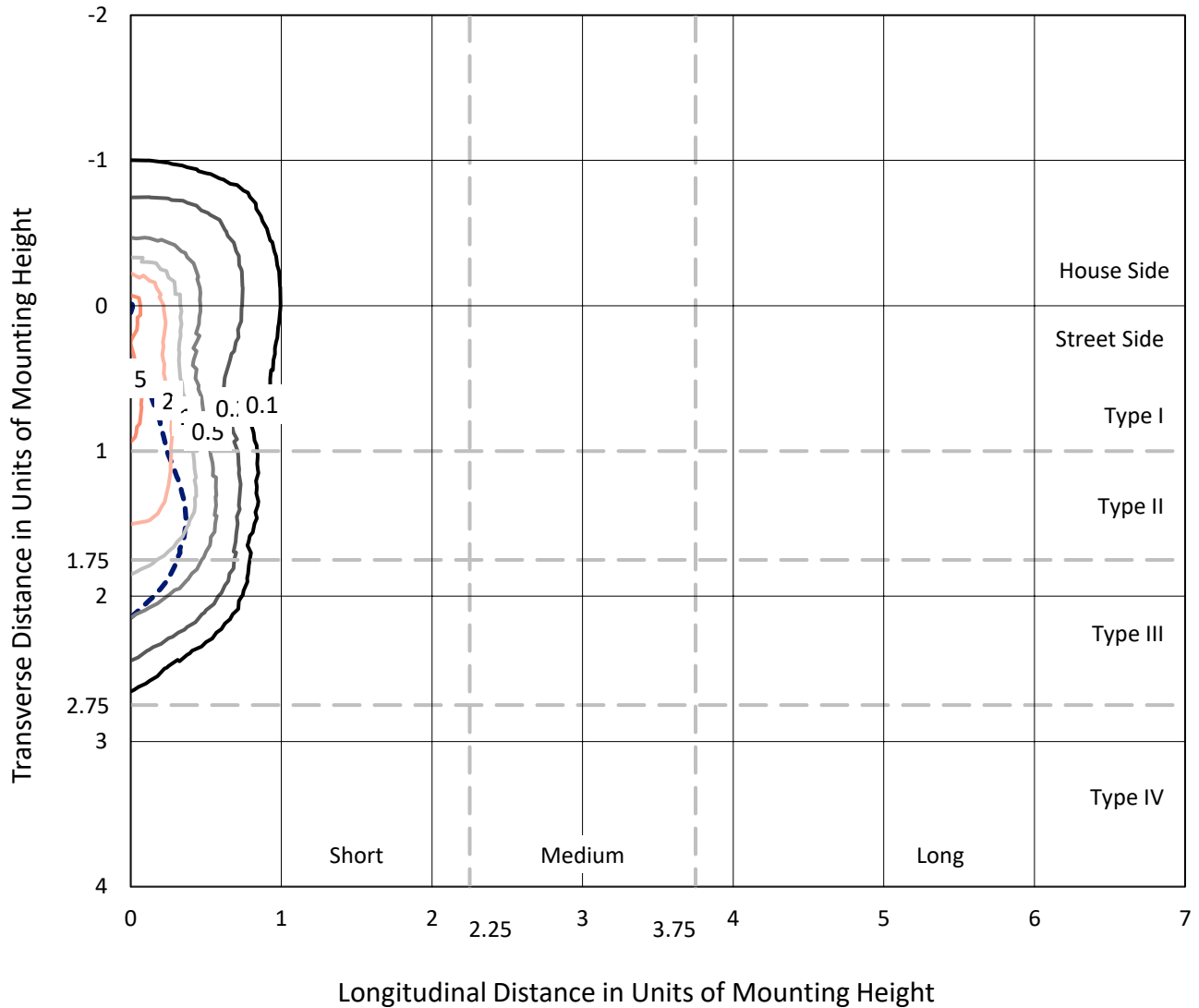
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

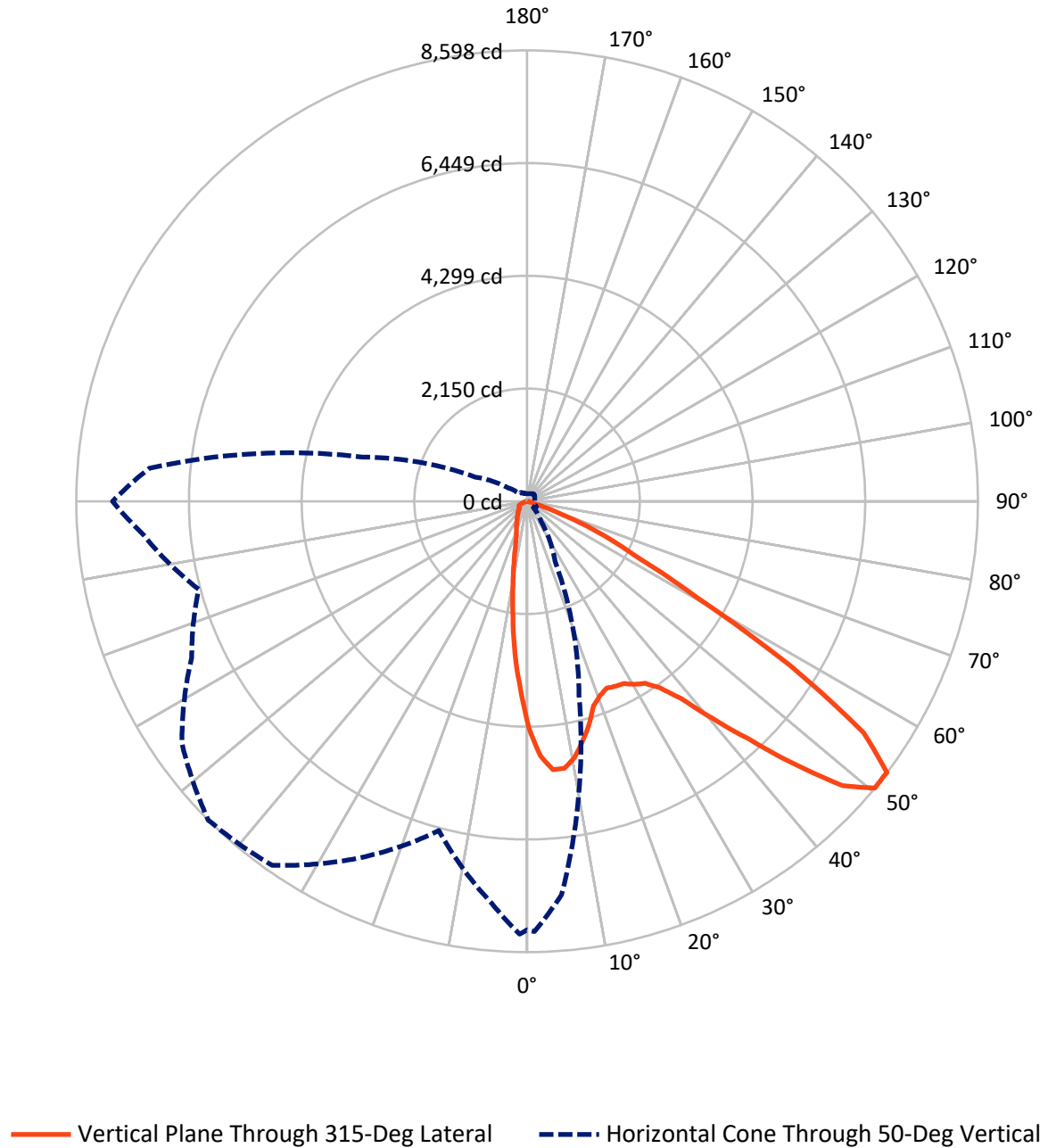
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	1708.4	0.0	1708.4
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	6820.6	0.0	6820.6
	% Fixture	80.0	0.0	80.0
Total	Lumens	8529.0	0.0	8529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.3	3.7
10°-20°	626.6	7.3
20°-30°	941.3	11.0
30°-40°	1412.9	16.6
40°-50°	1985.7	23.3
50°-60°	2141.9	25.1
60°-70°	994.5	11.7
70°-80°	93.6	1.1
80°-90°	17.3	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°	8529.0	100.0
0°-180°	8529.0	100.0

Coefficient of Utilization

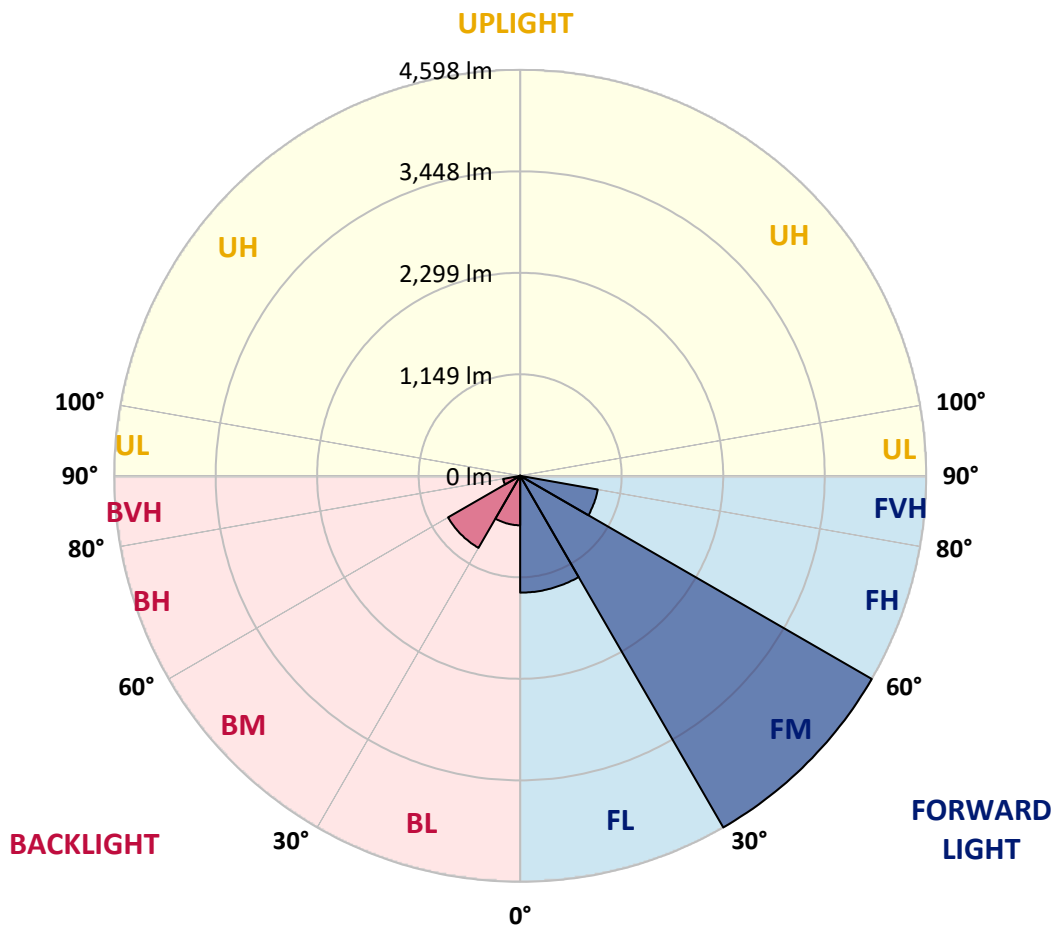


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1323.2	15.5			
FM (30°-60°)	4597.8	53.9			
FH (60°-80°)	891.9	10.5			G1/1800
FVH (80°-90°)	7.8	0.1			G0/10
BL (0°-30°)	560.0	6.6	B2/1000		
BM (30°-60°)	942.8	11.1	B1/1000		
BH (60°-80°)	196.2	2.3	B1/500		G1/500
BVH (80°-90°)	9.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3
2.5°	4496.2	4426.8	4338.8	4266.1	4157.7	3939.5	3880.2	3809.2	3749.9	3670.4	3558.7
5°	4088.4	4066.4	4025.8	3751.6	3553.6	3289.6	3073.0	2981.7	2861.5	2763.4	2692.3
7.5°	3777.0	3689.0	3560.4	3284.6	2968.1	2685.5	2445.2	2304.8	2145.7	2091.6	1995.1
10°	3443.6	3463.9	3274.4	2886.9	2504.5	2276.0	2127.1	1991.7	1847.9	1753.1	1616.1
12.5°	3337.0	3271.0	3125.5	2646.6	2320.0	2106.8	1925.7	1758.2	1605.9	1453.6	1321.6
15°	3406.4	3304.9	3101.8	2595.8	2177.9	1912.2	1685.4	1458.7	1318.2	1123.6	986.6
17.5°	3655.2	3573.9	3301.5	2650.0	2105.1	1726.0	1389.3	1155.8	940.9	764.9	695.5
20°	4069.8	3954.7	3612.9	2719.4	1996.8	1501.0	1127.0	839.3	636.3	561.8	522.9
22.5°	4475.9	4413.3	3981.8	2853.1	1900.3	1301.3	846.1	565.2	475.5	462.0	436.6
25°	5249.2	5061.4	4545.3	3095.0	1825.9	1113.5	638.0	455.2	402.7	392.6	396.0
27.5°	5709.5	5552.1	5066.5	3255.8	1743.0	969.6	539.8	418.0	382.4	360.4	352.0
30°	6151.2	5968.4	5325.4	3350.6	1565.3	817.3	478.9	401.1	392.6	360.4	350.3
32.5°	6491.3	6311.9	5699.3	3492.7	1492.5	719.2	394.3	313.1	291.1	287.7	318.1
35°	7012.5	6821.3	6019.2	3570.6	1436.7	668.4	341.8	279.2	253.8	243.7	245.4
37.5°	7498.2	7367.9	6315.3	3601.0	1377.5	653.2	306.3	250.4	228.4	221.7	220.0
40°	7904.3	7613.2	6596.2	3633.2	1352.1	624.4	284.3	228.4	213.2	203.1	203.1
42.5°	8090.4	7794.3	6911.0	3614.6	1345.3	578.7	284.3	209.8	198.0	187.8	186.1
45°	8049.8	7929.7	7051.4	3606.1	1345.3	533.0	258.9	204.8	187.8	174.3	170.9
47.5°	8154.7	7997.4	7227.4	3641.6	1318.2	500.9	218.3	214.9	177.7	160.8	157.4
50°	8173.4	8203.8	7533.7	3826.1	1259.0	460.3	170.9	211.5	170.9	145.5	142.1
52°	8295.2	8105.7	7626.8	3924.2	1196.4	429.8	143.8	181.1	164.1	135.4	132.0
52.5°	8127.7	8251.2	7648.8	3959.8	1203.2	409.5	138.8	177.7	160.8	135.4	126.9
55°	7939.8	8058.3	7559.1	4035.9	1103.3	321.5	108.3	128.6	145.5	118.5	113.4
57.5°	6900.8	7021.0	6569.1	3695.8	898.6	226.8	89.7	96.5	128.6	110.0	104.9
60°	6134.2	6047.9	5513.2	3083.2	638.0	126.9	71.1	74.5	140.5	101.5	99.8
62.5°	5606.3	5421.8	4607.9	2380.9	389.2	84.6	55.8	57.5	108.3	94.8	94.8
65°	4147.6	3941.1	3061.2	1440.1	191.2	59.2	42.3	45.7	67.7	81.2	81.2
67.5°	2367.4	2287.9	1479.0	649.8	79.5	37.2	32.2	35.5	52.5	66.0	62.6
70°	1088.1	976.4	568.6	137.1	37.2	25.4	25.4	28.8	42.3	49.1	45.7
72.5°	318.1	301.2	138.8	22.0	15.2	15.2	16.9	22.0	32.2	37.2	33.8
75°	23.7	15.2	10.2	6.8	6.8	10.2	13.5	22.0	32.2	35.5	28.8
77.5°	1.7	3.4	1.7	1.7	5.1	10.2	15.2	27.1	42.3	44.0	32.2
80°	1.7	1.7	0.0	1.7	5.1	10.2	16.9	30.5	47.4	50.8	27.1
82.5°	0.0	0.0	0.0	1.7	6.8	13.5	20.3	32.2	44.0	54.2	28.8
85°	0.0	0.0	0.0	1.7	10.2	18.6	23.7	8.5	5.1	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°	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3
2.5°	3638.2	3594.2	3577.3	3592.6	3587.5	3582.4	3675.5	3655.2	3651.8	3682.2	3675.5
5°	2731.2	2653.4	2866.6	2780.3	2870.0	2924.1	2934.3	2939.4	3002.0	2936.0	3022.3
7.5°	1946.0	1966.3	1964.7	2022.2	2125.4	2216.8	2270.9	2228.6	2225.3	2216.8	2179.6
10°	1555.1	1519.6	1512.8	1499.3	1531.4	1609.3	1675.3	1622.8	1585.6	1636.4	1621.1
12.5°	1270.8	1221.8	1194.7	1140.5	1142.2	1194.7	1194.7	1194.7	1231.9	1260.7	1282.7
15°	974.7	934.1	934.1	879.9	868.1	869.8	896.9	900.3	959.5	976.4	984.9
17.5°	682.0	660.0	685.3	707.3	693.8	697.2	707.3	710.7	719.2	712.4	729.3
20°	524.6	521.2	528.0	566.9	595.7	612.6	600.7	583.8	573.7	550.0	550.0
22.5°	445.1	451.8	463.7	495.8	533.0	543.2	529.7	490.7	460.3	456.9	458.6
25°	396.0	402.7	421.4	441.7	462.0	478.9	465.4	436.6	419.7	404.4	404.4
27.5°	365.5	368.9	379.1	394.3	411.2	424.7	419.7	404.4	385.8	379.1	363.8
30°	341.8	346.9	358.7	362.1	377.4	384.1	375.7	372.3	360.4	352.0	346.9
32.5°	330.0	328.3	336.7	340.1	341.8	346.9	336.7	341.8	340.1	326.6	321.5
35°	248.8	262.3	284.3	302.9	308.0	314.8	313.1	306.3	287.7	272.4	253.8
37.5°	223.4	231.8	243.7	258.9	279.2	287.7	284.3	267.4	245.4	235.2	231.8
40°	206.4	211.5	221.7	231.8	252.1	267.4	255.5	240.3	223.4	214.9	209.8
42.5°	191.2	192.9	198.0	208.1	223.4	247.1	226.8	206.4	199.7	194.6	191.2
45°	174.3	174.3	181.1	186.1	203.1	225.1	204.8	186.1	182.8	179.4	177.7
47.5°	160.8	162.5	165.8	172.6	186.1	201.4	187.8	172.6	164.1	162.5	159.1
50°	143.8	145.5	152.3	159.1	176.0	184.5	176.0	159.1	150.6	145.5	145.5
52°	130.3	135.4	142.1	155.7	167.5	181.1	170.9	152.3	142.1	137.1	133.7
52.5°	128.6	132.0	138.8	154.0	167.5	179.4	169.2	150.6	138.8	135.4	132.0
55°	115.1	120.1	132.0	150.6	165.8	179.4	165.8	148.9	132.0	123.5	120.1
57.5°	110.0	113.4	128.6	152.3	164.1	179.4	165.8	148.9	132.0	116.8	113.4
60°	104.9	111.7	128.6	147.2	162.5	181.1	167.5	147.2	128.6	110.0	110.0
62.5°	99.8	104.9	126.9	143.8	155.7	174.3	160.8	143.8	123.5	104.9	103.2
65°	86.3	94.8	111.7	120.1	133.7	150.6	137.1	125.2	108.3	93.1	91.4
67.5°	66.0	69.4	82.9	93.1	101.5	116.8	110.0	94.8	82.9	71.1	71.1
70°	45.7	49.1	59.2	64.3	72.8	81.2	76.1	64.3	55.8	49.1	47.4
72.5°	32.2	33.8	37.2	40.6	44.0	47.4	45.7	37.2	32.2	30.5	28.8
75°	25.4	28.8	30.5	28.8	27.1	25.4	25.4	22.0	18.6	16.9	16.9
77.5°	25.4	27.1	25.4	22.0	18.6	16.9	15.2	13.5	10.2	8.5	10.2
80°	22.0	22.0	22.0	18.6	16.9	15.2	13.5	11.8	10.2	8.5	8.5
82.5°	23.7	23.7	22.0	18.6	18.6	15.2	15.2	13.5	11.8	8.5	8.5
85°	0.0	0.0	0.0	3.4	8.5	15.2	15.2	13.5	11.8	10.2	10.2
87.5°	0.0	0.0	0.0	0.0	1.7	3.4	6.8	8.5	10.2	10.2	10.2
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°	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3
2.5°	3736.4	3800.7	3922.5	4044.4	4118.8	4206.8	4365.9	4450.5	4560.5	4614.6	4721.3
5°	3010.4	3162.7	3216.9	3355.6	3504.6	3653.5	3890.4	4151.0	4367.6	4516.5	4709.4
7.5°	2196.5	2232.0	2441.9	2534.9	2778.6	3049.4	3372.6	3700.9	3975.0	4218.7	4365.9
10°	1646.5	1776.8	1908.8	2086.5	2282.8	2562.0	2871.7	3233.8	3589.2	3832.8	4019.0
12.5°	1323.3	1426.5	1602.5	1793.7	2035.7	2220.2	2531.5	2890.3	3350.6	3589.2	3834.5
15°	1001.8	1133.8	1333.5	1531.4	1787.0	1981.6	2296.3	2748.1	3340.4	3668.7	3880.2
17.5°	742.9	832.6	1011.9	1233.6	1494.2	1768.4	2193.1	2732.9	3453.8	3844.7	4063.0
20°	568.6	599.0	712.4	910.4	1193.0	1551.8	2025.6	2798.9	3788.8	4272.8	4494.5
22.5°	460.3	473.8	517.8	654.9	929.0	1362.2	1946.0	2844.6	4166.2	4785.6	5081.7
25°	401.1	397.7	426.4	485.7	726.0	1184.5	1844.5	3017.2	4628.2	5388.0	5653.7
27.5°	365.5	365.5	379.1	421.4	602.4	1069.5	1780.2	3140.7	5093.5	5917.6	6061.5
30°	346.9	350.3	389.2	402.7	500.9	932.4	1673.6	3266.0	5538.6	6256.1	6454.1
32.5°	321.5	308.0	299.5	333.4	421.4	808.9	1567.0	3318.4	5899.0	6670.7	6839.9
35°	247.1	240.3	250.4	275.8	362.1	704.0	1448.5	3377.6	6313.6	7151.3	7185.1
37.5°	223.4	221.7	228.4	250.4	304.6	612.6	1363.9	3362.4	6630.1	7548.9	7457.6
40°	206.4	206.4	211.5	230.1	272.4	548.3	1275.9	3348.9	6936.4	7995.7	7728.3
42.5°	192.9	192.9	201.4	213.2	258.9	506.0	1209.9	3330.3	7193.6	8269.8	7887.4
45°	174.3	179.4	192.9	204.8	262.3	477.2	1160.9	3259.2	7281.6	8266.4	7811.2
47.5°	160.8	167.5	181.1	198.0	236.9	468.7	1127.0	3196.6	7251.1	8063.4	7572.6
50°	145.5	154.0	172.6	201.4	201.4	451.8	1091.5	3252.4	7229.1	7906.0	7344.2
52°	135.4	142.1	165.8	196.3	176.0	416.3	1069.5	3360.7	7318.8	7885.7	7242.6
52.5°	133.7	138.8	160.8	192.9	167.5	409.5	1054.2	3386.1	7347.6	7834.9	7312.0
55°	118.5	125.2	147.2	150.6	137.1	336.7	1005.2	3443.6	7205.4	7735.1	7246.0
57.5°	111.7	115.1	130.3	123.5	118.5	253.8	864.7	3354.0	6399.9	6870.4	6741.7
60°	103.2	106.6	121.8	96.5	99.8	177.7	649.8	2912.3	5139.2	5724.7	5956.6
62.5°	99.8	98.1	115.1	77.8	84.6	128.6	458.6	2367.4	3959.8	4712.8	5113.8
65°	88.0	86.3	82.9	66.0	72.8	99.8	274.1	1545.0	2790.4	3565.5	3785.5
67.5°	67.7	71.1	60.9	52.5	60.9	77.8	152.3	692.1	1463.8	2138.9	2316.6
70°	47.4	50.8	49.1	45.7	54.2	64.3	88.0	236.9	605.8	1123.6	1238.7
72.5°	28.8	35.5	37.2	38.9	47.4	55.8	62.6	76.1	160.8	397.7	494.1
75°	16.9	23.7	28.8	33.8	38.9	47.4	52.5	54.2	55.8	74.5	120.1
77.5°	11.8	16.9	25.4	32.2	38.9	47.4	55.8	59.2	55.8	52.5	55.8
80°	10.2	16.9	23.7	30.5	40.6	49.1	55.8	55.8	54.2	47.4	50.8
82.5°	10.2	16.9	25.4	32.2	38.9	47.4	54.2	55.8	50.8	47.4	49.1
85°	11.8	18.6	27.1	33.8	42.3	38.9	35.5	28.8	27.1	22.0	23.7
87.5°	11.8	16.9	16.9	18.6	20.3	20.3	20.3	18.6	15.2	13.5	13.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3	4325.3
2.5°	4726.3	4861.7	4856.6	4860.0	4839.7	4702.6	4636.6	4469.1	4516.5	4496.2
5°	4907.4	5041.1	5156.2	5142.6	4986.9	4800.8	4525.0	4264.4	4193.3	4088.4
7.5°	4726.3	5047.8	5154.5	5139.2	4909.1	4670.5	4230.5	3969.9	3846.4	3777.0
10°	4438.7	4810.9	4942.9	4970.0	4814.3	4452.2	4047.8	3629.8	3563.8	3443.6
12.5°	4274.5	4545.3	4626.5	4699.3	4645.1	4374.4	3909.0	3507.9	3416.6	3337.0
15°	4140.8	4301.6	4335.4	4418.3	4450.5	4305.0	3981.8	3639.9	3414.9	3406.4
17.5°	4264.4	4198.4	4074.8	4100.2	4201.7	4306.7	4169.6	3900.5	3682.2	3655.2
20°	4469.1	4178.1	3898.8	3961.5	4046.1	4367.6	4453.9	4264.4	4139.1	4069.8
22.5°	4704.3	4213.6	3843.0	3873.5	4034.2	4504.7	4914.2	4809.2	4575.7	4475.9
25°	5139.2	4311.7	3887.0	3907.3	4127.3	4695.9	5330.4	5408.3	5269.5	5249.2
27.5°	5564.0	4565.6	3983.5	3937.8	4174.7	4882.0	5582.6	6000.6	5756.9	5709.5
30°	5780.6	4772.0	4127.3	4049.4	4371.0	4995.4	5734.9	6386.4	6173.2	6151.2
32.5°	6112.2	4959.9	4239.0	4139.1	4481.0	5135.8	6019.2	6807.7	6601.3	6491.3
35°	6251.0	5164.6	4484.3	4367.6	4795.7	5332.1	6164.7	7183.4	7119.1	7012.5
37.5°	6518.4	5384.6	4773.7	4766.9	5176.5	5587.7	6427.0	7694.5	7682.6	7498.2
40°	6540.4	5624.9	5230.6	5443.8	5765.3	6032.7	6657.1	7836.6	8029.5	7904.3
42.5°	6574.2	6046.3	6020.9	6196.9	6472.7	6415.2	6665.6	7870.4	8164.9	8090.4
45°	6589.4	6467.6	6824.7	7149.6	7264.6	6916.0	6586.1	7806.1	8236.0	8049.8
47.5°	6467.6	6829.7	7474.5	8102.3	8136.1	7224.0	6552.2	7740.1	8278.3	8154.7
50°	6484.5	7056.5	8036.3	8598.1	8474.6	7496.5	6499.8	7699.5	8256.3	8173.4
52°	6443.9	7061.6	8115.8	8587.9	8501.6	7345.9	6410.1	7543.9	8236.0	8295.2
52.5°	6489.6	7031.1	8032.9	8594.7	8483.0	7420.3	6398.2	7630.2	8247.8	8127.7
55°	6332.2	6669.0	7547.2	7785.8	7768.9	6735.0	6034.4	7344.2	7938.1	7939.8
57.5°	5723.0	5780.6	5919.3	5914.3	5836.4	5294.9	5161.2	6753.6	7076.8	6900.8
60°	5042.8	4232.2	3858.2	3705.9	3619.6	3531.6	4565.6	6178.2	6208.7	6134.2
62.5°	4357.4	2934.3	2436.8	2394.5	2414.8	2736.3	4413.3	5949.8	5767.0	5606.3
65°	3516.4	2138.9	1770.0	1714.2	1912.2	2259.1	3572.2	4562.2	4281.3	4147.6
67.5°	2208.3	1560.2	1196.4	1091.5	1330.1	1555.1	2347.1	2866.6	2551.8	2367.4
70°	1309.8	871.5	541.5	485.7	546.6	829.2	1314.8	1429.9	1182.9	1088.1
72.5°	516.1	319.8	150.6	128.6	133.7	291.1	484.0	472.1	357.1	318.1
75°	138.8	96.5	52.5	42.3	35.5	54.2	77.8	50.8	18.6	23.7
77.5°	64.3	57.5	45.7	35.5	27.1	20.3	10.2	3.4	3.4	1.7
80°	55.8	49.1	42.3	35.5	27.1	16.9	8.5	1.7	1.7	1.7
82.5°	52.5	45.7	38.9	32.2	25.4	16.9	8.5	1.7	0.0	0.0
85°	22.0	28.8	32.2	30.5	27.1	16.9	8.5	1.7	0.0	0.0
87.5°	11.8	10.2	8.5	6.8	5.1	3.4	3.4	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)