

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: P451856

Luminaire Tested: **GALN-SA2D-730-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12212 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

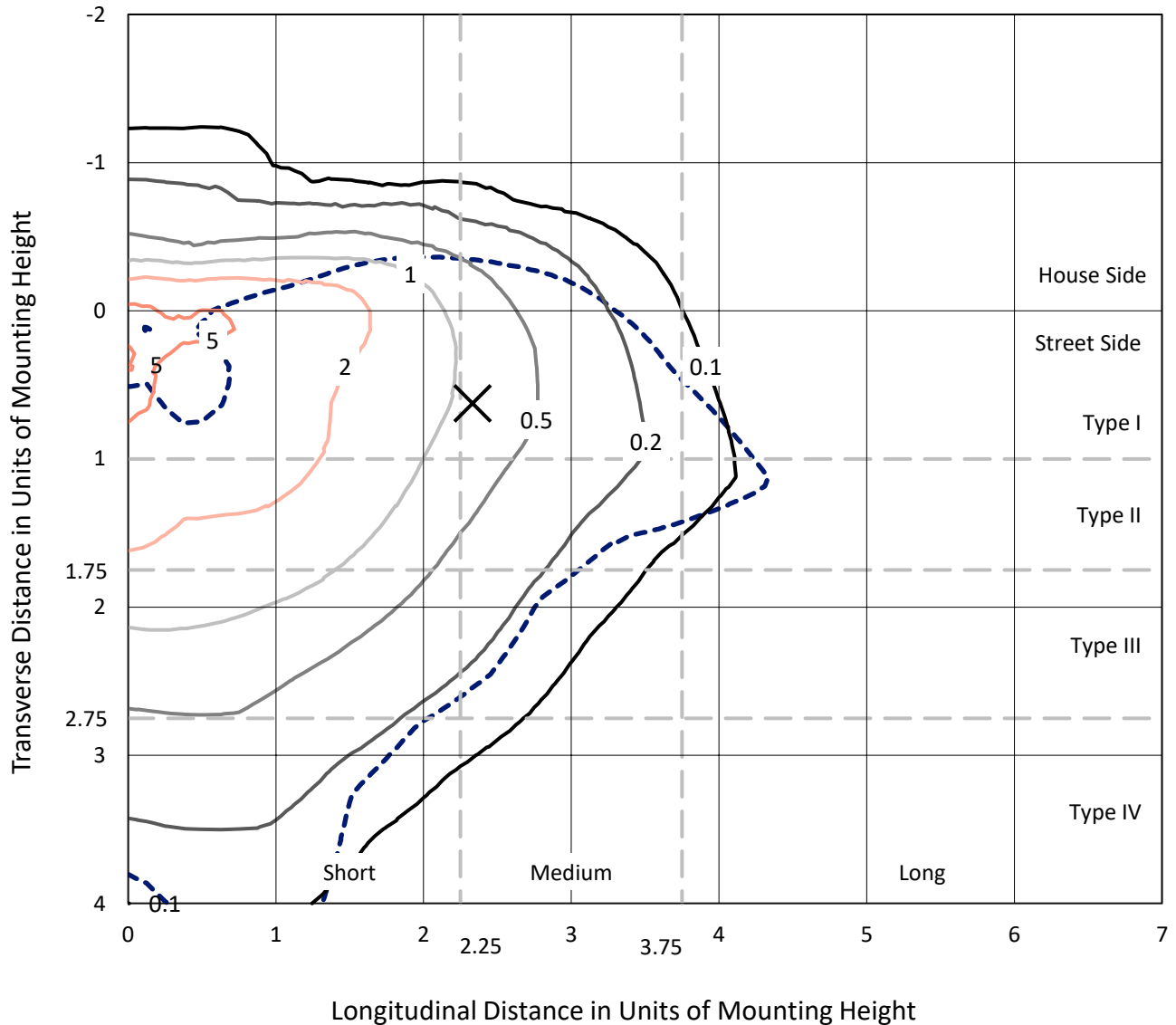
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

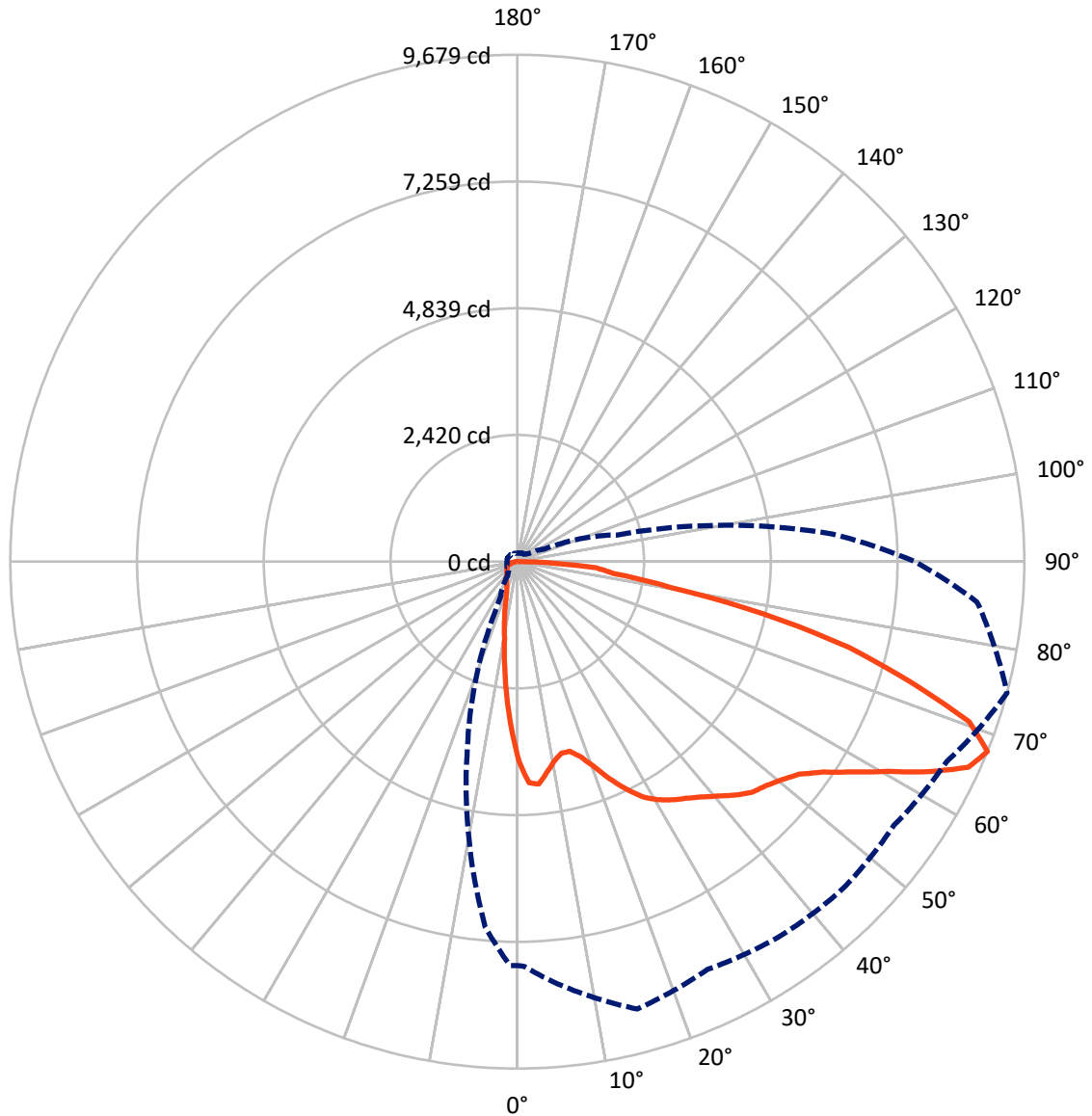
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2064.1	0.0	2064.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	10147.9	0.0	10147.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	12212.0	0.0	12212.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.4	2.4
10°-20°	603.5	4.9
20°-30°	868.5	7.1
30°-40°	1250.8	10.2
40°-50°	1757.1	14.4
50°-60°	2450.5	20.1
60°-70°	2913.5	23.9
70°-80°	1715.9	14.1
80°-90°	362.8	3.0
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°	12212.0	100.0
0°-180°	12212.0	100.0



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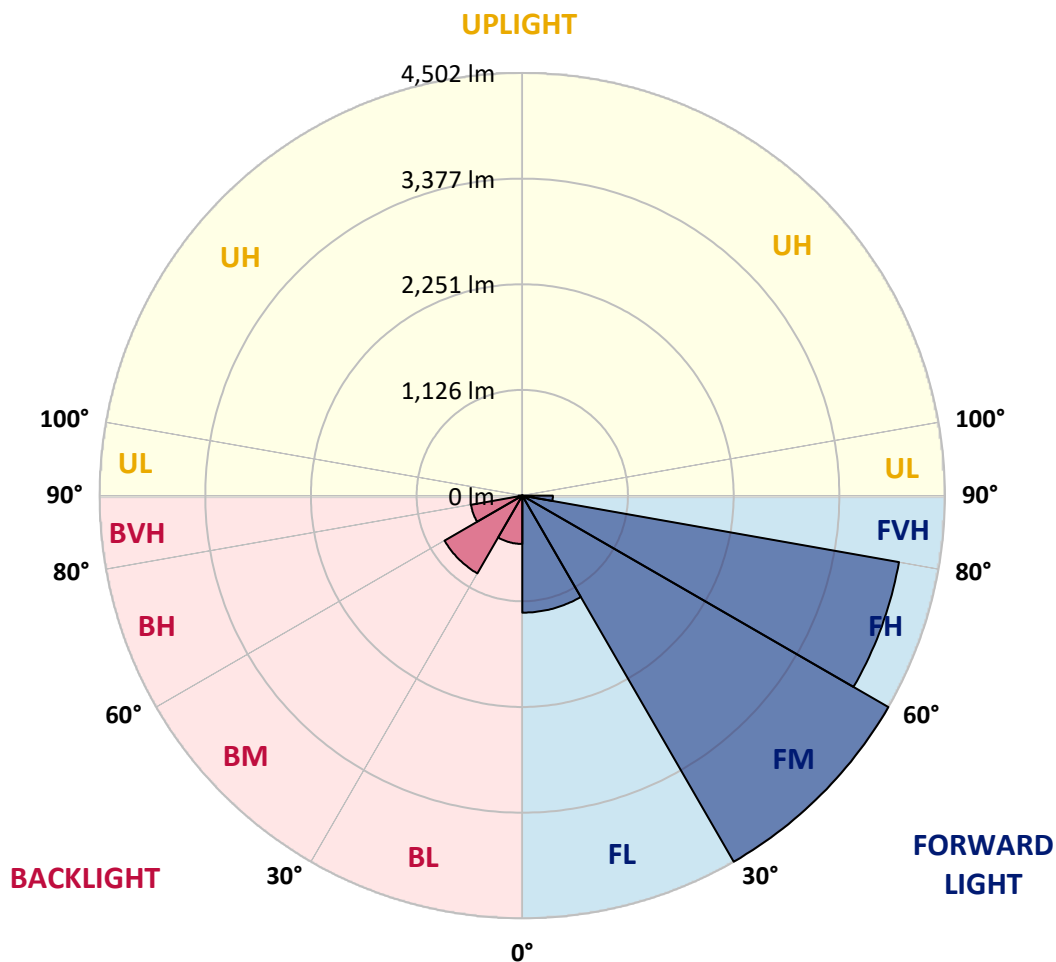
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1246.5	10.2			
FM	(30°-60°)	4502.1	36.9			
FH	(60°-80°)	4074.0	33.4			G2/5000
FVH	(80°-90°)	325.3	2.7			G3/500
BL	(0°-30°)	514.8	4.2	B2/1000		
BM	(30°-60°)	956.3	7.8	B1/1000		
BH	(60°-80°)	555.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	37.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3
2.5°	4113.7	4119.2	4154.4	4257.0	4327.5	4353.3	4371.3	4337.7	4304.8	4224.9	4104.3
5°	4101.2	4133.3	4224.9	4455.1	4636.8	4715.1	4738.6	4637.6	4470.8	4265.6	4018.9
7.5°	3861.5	3904.6	4045.6	4431.6	4751.9	4935.2	4910.9	4728.4	4427.7	4062.0	3717.4
10°	3577.3	3625.0	3795.0	4261.7	4674.4	4926.6	4926.6	4704.1	4304.8	3870.1	3473.1
12.5°	3351.7	3401.8	3596.0	4087.1	4513.1	4751.9	4791.9	4600.8	4216.3	3748.8	3312.6
15°	3277.3	3325.9	3535.0	3981.3	4342.4	4488.0	4501.3	4438.7	4173.2	3757.4	3305.5
17.5°	3369.7	3432.4	3643.8	4012.7	4185.7	4194.3	4204.5	4253.9	4177.9	3914.8	3448.0
20°	3636.8	3704.1	3925.0	4113.7	4048.7	3959.4	3964.9	4091.8	4233.5	4174.8	3788.7
22.5°	4022.1	4080.8	4307.1	4291.4	3990.7	3806.7	3768.3	3945.3	4315.7	4499.0	4151.3
25°	4437.9	4506.8	4766.8	4555.4	4007.2	3715.9	3691.6	3859.2	4401.1	4802.0	4570.2
27.5°	4914.0	4981.4	5186.5	4821.6	4093.3	3708.8	3679.8	3851.3	4477.8	5082.4	4970.4
30°	5268.0	5329.9	5469.2	5045.6	4199.0	3755.8	3719.8	3913.2	4543.6	5274.3	5360.4
32.5°	5546.0	5610.2	5686.2	5185.0	4338.4	3841.2	3774.6	4026.0	4629.8	5420.7	5649.4
35°	5835.7	5911.7	5906.2	5308.7	4468.4	3939.8	3874.8	4188.9	4765.2	5548.3	6015.9
37.5°	6203.0	6233.6	6194.4	5419.9	4624.3	4117.6	4081.6	4430.8	4957.9	5702.6	6444.2
40°	6575.8	6636.9	6435.6	5554.6	4813.8	4452.0	4448.1	4788.7	5186.5	5883.5	6859.3
42.5°	6895.3	6947.0	6661.1	5672.1	5043.2	4860.0	4889.7	5268.8	5486.5	6093.4	7192.9
45°	7135.7	7181.9	6869.5	5785.6	5345.5	5331.4	5506.8	5783.3	5864.7	6282.1	7388.7
47.5°	7340.1	7384.7	7014.3	5957.9	5719.1	5894.5	6199.9	6319.7	6188.1	6390.2	7607.9
50°	7512.4	7525.7	7113.8	6163.1	6182.7	6584.4	6880.4	6957.9	6507.7	6545.2	7798.2
52.5°	7691.7	7674.5	7285.3	6421.5	6683.9	7239.1	7454.4	7535.1	6813.9	6736.3	8075.4
55°	8093.5	8109.9	7669.8	6747.3	7190.5	7882.0	8165.5	8088.0	7152.9	7087.9	8427.8
57.5°	8579.0	8564.9	8210.9	7257.1	7706.6	8480.3	8691.8	8567.2	7605.6	7571.1	8784.9
60°	8767.7	8786.5	8663.6	7805.3	8215.6	9004.2	9220.4	9026.9	8148.3	8132.6	9054.3
62.5°	8578.2	8683.9	8766.9	8293.1	8649.5	9389.5	9604.1	9383.2	8714.5	8828.0	9243.1
65°	8200.7	8223.5	8506.2	8706.6	8858.6	9452.9	9564.9	9447.5	9187.5	9461.5	9234.4
67.5°	7710.5	7730.1	8061.3	8842.1	8589.2	8732.5	8810.8	8776.3	9041.0	9678.5	8809.2
70°	7243.8	7228.1	7578.2	8496.8	7477.1	7259.4	7324.4	7216.4	7801.4	9148.3	7975.2
72.5°	6335.4	6391.8	6767.6	7536.7	5920.3	5566.4	5708.1	5428.5	6000.2	7835.0	6473.2
75°	4962.6	4975.9	5603.2	6325.2	4466.1	3907.7	4099.6	3982.9	4596.1	6535.8	4470.0
77.5°	3436.3	3406.5	4080.8	4831.0	3184.9	2860.7	2863.8	2808.2	3209.2	4812.2	3036.9
80°	2182.5	2137.1	2554.5	2984.4	2188.8	2341.5	2264.8	2262.4	2089.3	2968.8	1836.4
82.5°	1179.4	1229.5	1614.0	1870.9	1570.1	1809.8	1658.6	1610.1	1433.9	1858.3	1174.7
85°	537.2	584.2	860.6	1272.6	1192.7	1206.0	805.8	950.7	1186.4	1509.1	627.3
87.5°	52.5	67.3	177.8	600.6	407.2	321.1	119.8	231.0	298.4	536.4	50.1
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°	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3
2.5°	4054.9	4014.2	3875.6	3761.3	3639.9	3547.5	3426.9	3346.2	3290.6	3206.8	3196.7
5°	3868.6	3769.1	3527.9	3282.0	3069.8	2910.0	2747.9	2599.1	2511.4	2484.0	2448.8
7.5°	3554.5	3387.0	3076.8	2794.9	2551.4	2313.3	2130.1	2000.1	1913.1	1862.2	1801.2
10°	3296.1	3101.9	2724.4	2379.1	2178.6	2030.6	1869.3	1729.9	1622.6	1531.0	1480.9
12.5°	3122.3	2903.0	2478.5	2198.2	2043.1	1885.7	1697.0	1540.4	1382.2	1278.0	1233.4
15°	3069.8	2838.0	2402.6	2108.1	1885.7	1679.8	1468.3	1263.9	1107.3	1008.6	975.8
17.5°	3198.2	2917.9	2401.8	1988.3	1700.9	1455.0	1184.1	992.2	831.7	758.1	734.6
20°	3437.9	3071.4	2408.9	1870.1	1500.4	1154.3	861.4	704.0	627.3	595.9	584.2
22.5°	3772.2	3305.5	2430.0	1753.4	1281.2	886.5	645.3	565.4	538.0	532.5	530.2
25°	4184.2	3595.3	2501.3	1648.4	1096.4	676.6	539.6	503.5	487.9	482.4	481.6
27.5°	4563.2	3969.6	2587.4	1558.4	917.8	583.4	487.9	457.3	441.7	440.9	442.5
30°	4905.4	4282.8	2659.4	1457.4	782.3	518.4	454.2	423.7	408.8	408.0	412.7
32.5°	5201.4	4540.5	2712.7	1357.9	707.1	478.5	423.7	390.8	378.2	375.9	378.2
35°	5517.8	4797.3	2688.4	1280.4	664.1	445.6	401.0	368.8	354.0	346.9	346.9
37.5°	5878.8	5062.0	2646.9	1216.2	644.5	418.2	381.4	350.1	335.2	328.1	327.3
40°	6272.7	5326.7	2589.7	1159.0	624.9	401.7	368.1	335.2	317.2	310.1	308.5
42.5°	6620.4	5553.0	2542.8	1121.4	592.8	404.9	356.3	324.2	301.5	292.1	291.3
45°	6922.7	5780.9	2534.1	1099.5	566.2	400.2	353.2	315.6	289.0	278.8	277.2
47.5°	7159.2	6018.2	2583.5	1087.0	537.2	375.1	373.5	310.1	278.0	267.0	265.5
50°	7447.4	6354.9	2696.3	1061.1	510.6	351.6	394.7	309.3	269.4	255.3	251.4
52.5°	7831.1	6793.5	2849.0	1014.9	472.2	329.7	376.7	309.3	259.2	245.1	240.4
55°	8411.4	7352.6	2998.5	949.9	418.2	300.7	339.9	299.9	244.3	231.8	228.7
57.5°	8795.9	7761.4	3094.1	859.9	350.8	279.6	292.9	285.1	229.5	216.1	216.1
60°	8815.5	7871.1	3048.7	746.3	308.5	260.0	254.5	287.4	216.1	202.0	200.5
62.5°	8589.9	7602.4	2812.2	644.5	285.8	238.8	230.2	252.2	202.8	188.7	186.4
65°	8237.5	6917.2	2401.8	595.9	273.3	220.1	207.5	206.7	188.7	175.4	172.3
67.5°	7589.9	6044.8	1973.4	567.8	267.0	198.9	187.2	183.2	172.3	161.3	159.8
70°	6635.3	5062.8	1582.7	556.0	263.9	177.0	167.6	162.9	153.5	144.9	144.1
72.5°	5162.3	4106.6	1306.2	548.2	262.3	156.6	146.4	140.2	134.7	126.9	126.9
75°	3708.0	3021.2	996.9	494.1	242.8	134.7	123.7	119.8	112.0	105.7	107.3
77.5°	2337.6	2034.5	656.2	363.4	187.9	108.1	98.7	96.3	90.1	81.4	86.9
80°	1578.8	1430.7	382.9	228.7	118.2	79.1	76.0	75.2	68.1	58.7	59.5
82.5°	1074.4	1054.1	198.9	130.0	68.1	46.2	44.6	46.2	38.4	31.3	31.3
85°	419.7	573.2	94.0	50.9	21.9	7.0	10.2	11.0	6.3	3.1	3.9
87.5°	7.8	58.7	2.3	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3
2.5°	3181.0	3173.9	3185.7	3135.6	3145.8	3164.6	3173.9	3179.4	3257.0	3238.9	3288.3
5°	2481.7	2474.6	2520.1	2526.3	2549.8	2545.1	2567.8	2573.3	2601.5	2611.7	2680.6
7.5°	1805.1	1835.6	1887.3	1913.9	1953.9	1966.4	1954.6	1983.6	1924.9	1967.2	1979.7
10°	1450.3	1413.5	1391.6	1452.7	1460.5	1518.5	1495.0	1476.2	1510.6	1512.2	1545.1
12.5°	1207.6	1128.5	1076.0	1093.2	1112.0	1137.1	1141.0	1178.6	1203.6	1227.1	1246.7
15°	946.8	919.4	871.6	848.1	874.7	884.9	909.2	940.5	967.1	974.2	1000.8
17.5°	726.7	731.4	723.6	709.5	725.9	733.8	735.3	736.1	743.2	738.5	777.6
20°	585.0	601.4	621.0	624.1	629.6	633.5	626.5	599.9	600.6	617.1	629.6
22.5°	529.4	532.5	554.4	561.5	578.7	571.7	551.3	538.8	537.2	541.1	547.4
25°	485.5	490.2	505.9	516.9	530.2	517.6	502.8	491.0	489.4	493.4	499.6
27.5°	446.4	453.4	467.5	478.5	491.0	479.3	465.2	455.0	454.2	453.4	457.3
30°	415.0	422.9	433.1	445.6	454.2	444.0	430.7	425.2	424.4	422.9	424.4
32.5°	383.7	396.3	406.4	412.7	421.3	413.5	403.3	400.2	394.7	390.0	387.6
35°	348.5	361.8	377.5	385.3	393.9	386.1	379.0	365.7	356.3	355.5	357.1
37.5°	328.1	333.6	346.1	359.4	368.1	364.1	350.8	337.5	335.2	335.2	336.7
40°	310.1	312.5	317.9	335.2	350.8	339.1	322.6	318.7	318.7	317.9	318.7
42.5°	292.1	294.4	294.4	307.8	332.8	314.0	301.5	301.5	301.5	302.3	304.6
45°	275.7	276.4	275.7	285.1	308.5	292.9	284.3	286.6	288.2	289.8	291.3
47.5°	261.6	262.3	261.6	269.4	281.1	274.9	270.2	273.3	276.4	278.8	280.4
50°	249.0	248.2	249.8	254.5	260.0	261.6	258.4	263.1	264.7	267.8	271.7
52.5°	238.1	237.3	238.8	241.2	249.0	249.0	249.0	252.9	256.1	259.2	264.7
55°	225.5	226.3	228.7	231.8	242.0	240.4	241.2	244.3	247.5	252.2	255.3
57.5°	213.8	215.4	218.5	223.2	233.4	232.6	233.4	234.9	238.8	241.2	244.3
60°	200.5	203.6	207.5	210.7	220.8	220.1	224.0	227.1	229.5	229.5	231.0
62.5°	187.2	191.9	195.8	198.1	209.1	209.9	215.4	217.7	219.3	217.7	220.1
65°	173.9	180.9	182.5	185.6	196.6	197.3	203.6	209.1	207.5	206.0	209.9
67.5°	160.5	169.2	168.4	172.3	183.2	184.8	190.3	199.7	196.6	195.0	198.1
70°	145.7	151.9	152.7	155.1	169.9	167.6	176.2	184.8	182.5	183.2	183.2
72.5°	129.2	134.7	134.7	139.4	155.1	151.1	158.2	167.6	167.6	166.8	166.8
75°	109.6	112.8	115.9	122.9	139.4	134.7	139.4	148.0	149.6	148.0	148.0
77.5°	88.5	93.2	94.8	104.2	115.9	115.1	119.8	123.7	126.9	125.3	125.3
80°	62.6	67.3	73.6	83.8	90.8	93.2	95.5	98.7	100.2	100.2	101.8
82.5°	35.2	42.3	47.8	58.0	61.1	72.8	72.0	74.4	72.0	63.4	70.5
85°	7.8	14.9	21.1	26.6	30.5	42.3	44.6	50.1	41.5	38.4	38.4
87.5°	0.0	0.0	0.0	0.0	0.0	6.3	12.5	17.2	14.9	12.5	12.5
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°	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3
2.5°	3329.8	3397.9	3480.1	3621.9	3721.3	3828.6	3936.7	4051.8	4082.4	4113.7
5°	2699.4	2833.3	2906.1	3096.4	3296.1	3549.8	3757.4	3984.5	4079.2	4101.2
7.5°	2044.7	2135.5	2326.6	2519.3	2766.7	3033.0	3350.9	3704.9	3815.3	3861.5
10°	1621.0	1744.8	1912.4	2119.1	2336.0	2622.6	2981.3	3394.8	3551.4	3577.3
12.5°	1379.8	1517.7	1700.1	1918.6	2123.8	2339.9	2701.7	3128.5	3296.1	3351.7
15°	1103.4	1270.2	1480.9	1711.1	1934.3	2170.8	2537.3	3018.9	3212.3	3277.3
17.5°	866.9	1001.6	1229.5	1479.3	1744.0	2043.1	2502.8	3071.4	3309.4	3369.7
20°	663.3	759.6	951.5	1215.4	1525.5	1917.1	2511.4	3269.5	3554.5	3636.8
22.5°	573.2	622.6	739.3	990.6	1337.6	1807.4	2546.7	3541.2	3885.0	4022.1
25°	519.2	545.0	610.8	775.3	1158.2	1700.9	2627.3	3906.9	4347.1	4437.9
27.5°	473.0	491.8	532.5	650.8	995.3	1602.2	2721.3	4312.6	4778.5	4914.0
30°	429.1	454.2	492.6	577.9	891.2	1512.2	2839.6	4641.5	5141.9	5268.0
32.5°	395.5	420.5	455.8	527.0	802.7	1417.4	2910.0	4930.5	5438.7	5546.0
35°	368.1	389.2	426.0	486.3	735.3	1345.4	2895.9	5159.9	5726.1	5835.7
37.5°	348.5	366.5	403.3	447.9	684.4	1270.2	2888.9	5463.0	6076.2	6203.0
40°	330.5	349.3	382.9	422.9	633.5	1181.7	2892.8	5763.7	6448.9	6575.8
42.5°	316.4	337.5	364.9	415.8	581.1	1110.5	2892.8	6025.3	6773.1	6895.3
45°	304.6	327.3	354.0	415.0	539.6	1056.4	2873.2	6250.0	7031.6	7135.7
47.5°	294.4	319.5	357.9	401.0	529.4	1017.3	2856.0	6430.1	7242.2	7340.1
50°	287.4	317.2	380.6	384.5	532.5	1005.5	2939.0	6657.2	7427.8	7512.4
52.5°	281.9	317.9	379.8	360.2	527.0	1013.3	3112.1	7012.0	7685.5	7691.7
55°	271.0	317.2	360.2	332.8	504.3	1026.7	3334.5	7527.3	8088.8	8093.5
57.5°	260.0	308.5	334.4	309.3	458.1	1026.7	3602.3	8015.1	8575.1	8579.0
60°	249.0	321.1	293.7	289.0	397.8	1007.9	3885.0	8229.7	8727.8	8767.7
62.5°	238.1	323.4	262.3	271.0	354.0	962.4	4095.7	7992.4	8521.0	8578.2
65°	225.5	260.8	242.0	252.2	331.3	886.5	4029.1	7557.8	8132.6	8200.7
67.5°	210.7	220.8	220.1	232.6	323.4	774.5	3678.3	7008.1	7714.4	7710.5
70°	192.6	198.1	200.5	213.8	308.5	687.6	3065.1	6294.6	7156.1	7243.8
72.5°	173.9	178.5	180.9	192.6	293.7	638.2	2379.1	5311.8	6198.3	6335.4
75°	153.5	156.6	159.8	169.9	278.0	565.4	1694.7	4054.9	4747.2	4962.6
77.5°	132.3	132.3	136.3	146.4	234.2	466.7	1137.1	2844.3	3216.2	3436.3
80°	107.3	108.1	106.5	117.5	172.3	319.5	646.1	1899.8	2140.2	2182.5
82.5°	82.2	79.9	80.7	86.1	128.4	217.7	344.6	1180.1	1202.9	1179.4
85°	51.7	51.7	50.1	56.4	82.2	113.6	187.9	722.8	564.6	537.2
87.5°	21.1	17.2	19.6	22.7	39.2	46.2	73.6	148.8	57.2	52.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)