

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: P452088

Luminaire Tested: **GALN-SA3A-730-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452088
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-SA3A-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA 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: 10717 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

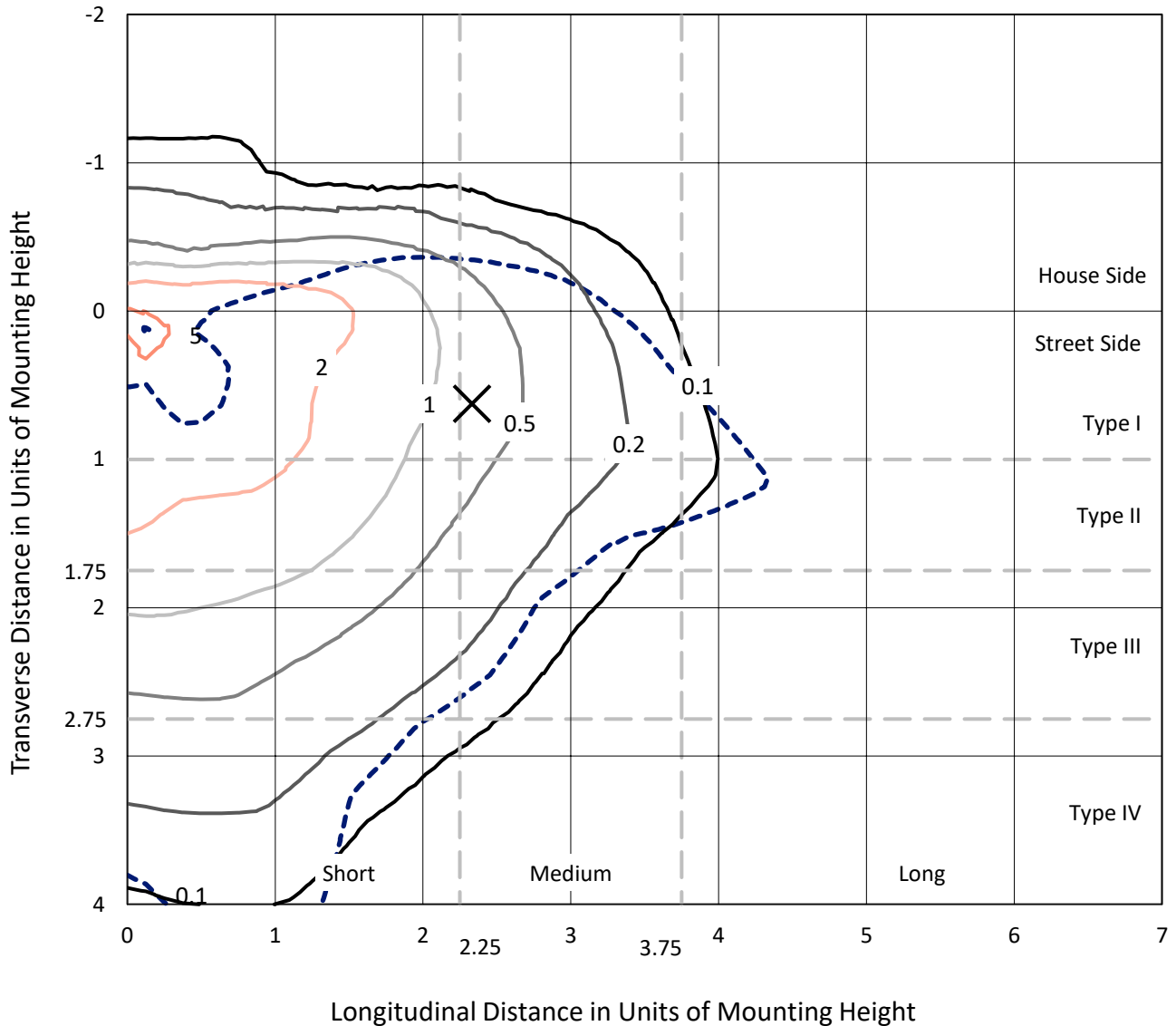
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

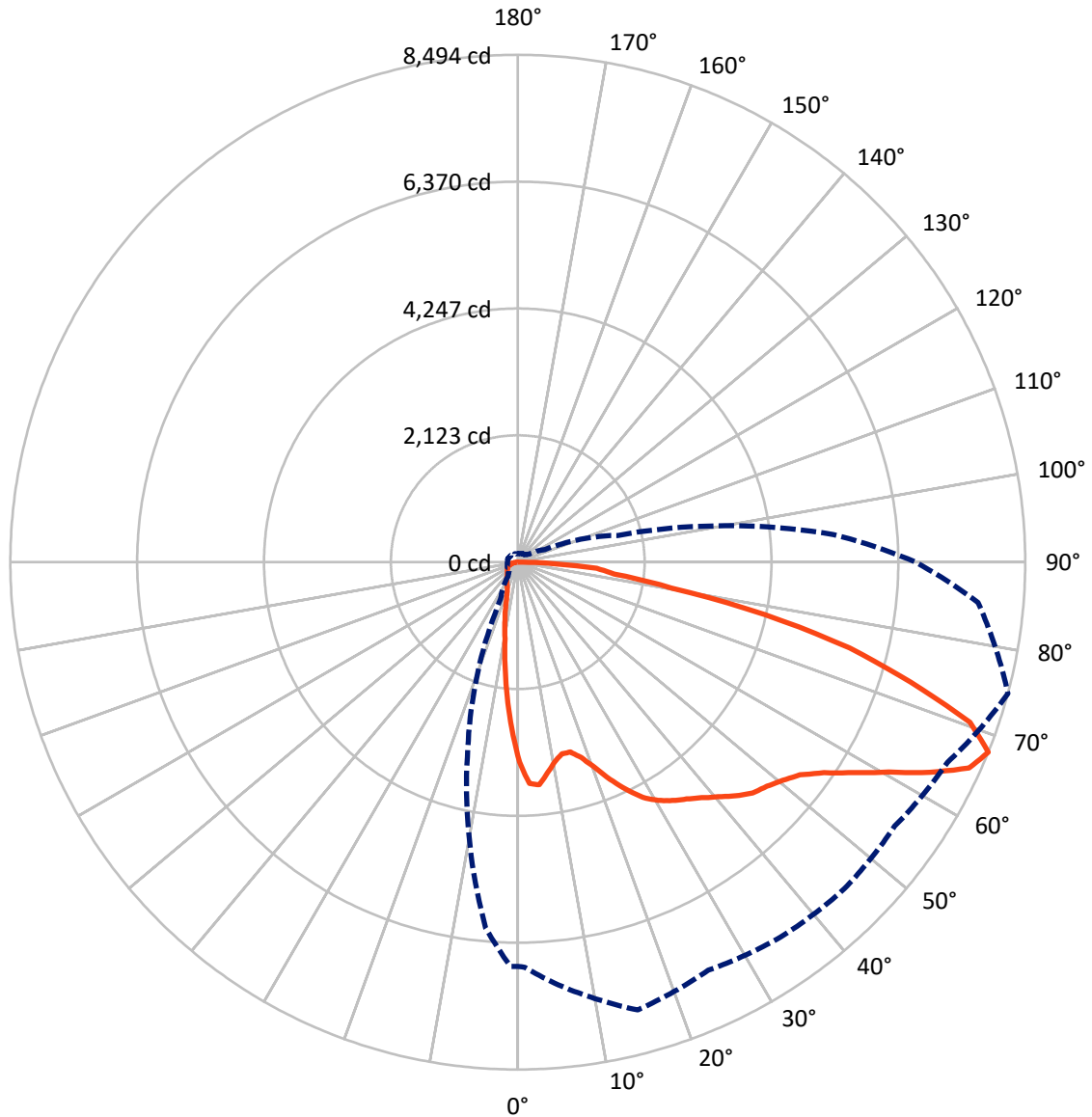
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	1811.4	0.0	1811.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	8905.6	0.0	8905.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	10717.0	0.0	10717.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.0	2.4
10°-20°	529.6	4.9
20°-30°	762.1	7.1
30°-40°	1097.7	10.2
40°-50°	1542.0	14.4
50°-60°	2150.5	20.1
60°-70°	2556.8	23.9
70°-80°	1505.8	14.1
80°-90°	318.4	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°	10717.0	100.0
0°-180°	10717.0	100.0

Coefficient of Utilization



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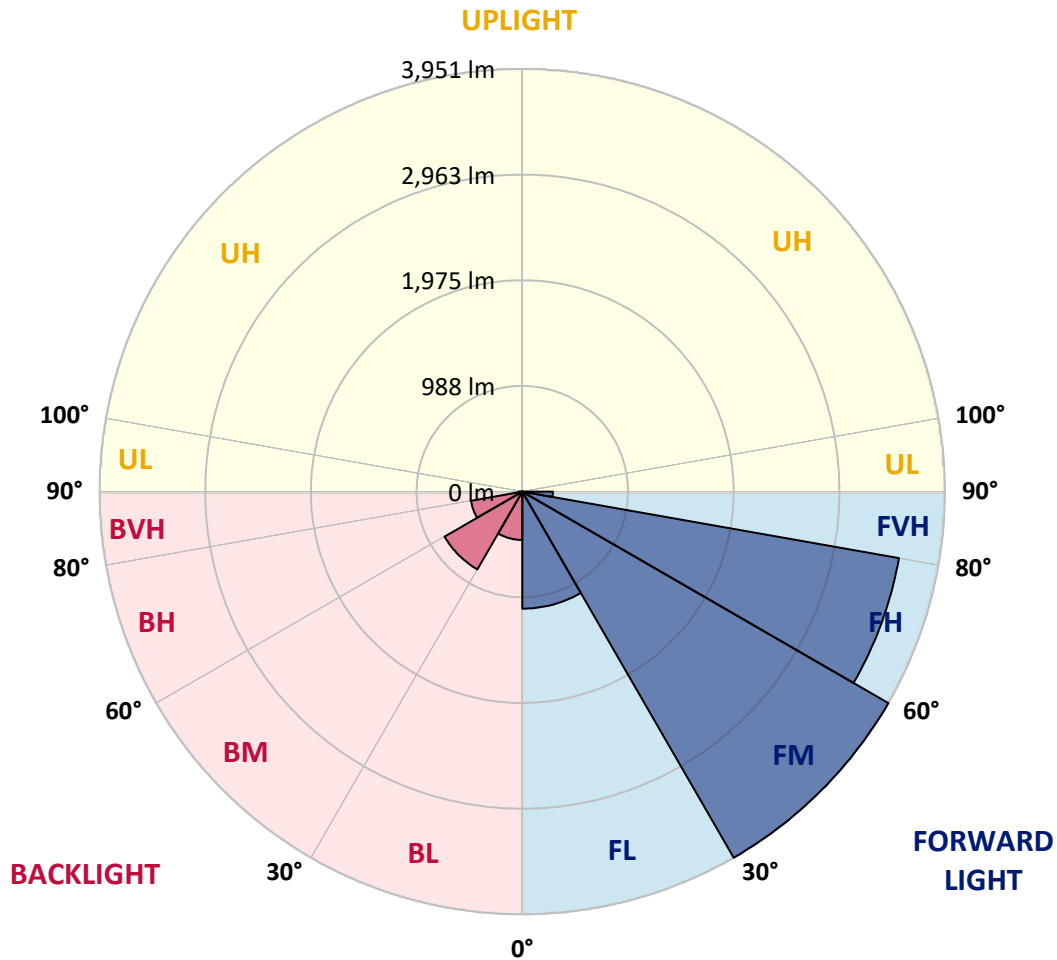
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1093.9	10.2			
FM	(30°-60°)	3951.0	36.9			
FH	(60°-80°)	3575.2	33.4			G2/5000
FVH	(80°-90°)	285.5	2.7			G3/500
BL	(0°-30°)	451.8	4.2	B1/500		
BM	(30°-60°)	839.2	7.8	B1/1000		
BH	(60°-80°)	487.4	4.5	B1/500		G1/500
BVH	(80°-90°)	32.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2
2.5°	3610.1	3614.9	3645.8	3735.8	3797.7	3820.4	3836.2	3806.6	3777.8	3707.7	3601.8
5°	3599.1	3627.3	3707.7	3909.7	4069.2	4137.9	4158.5	4069.8	3923.5	3743.4	3526.9
7.5°	3388.8	3426.6	3550.3	3889.1	4170.2	4331.0	4309.7	4149.6	3885.7	3564.7	3262.3
10°	3139.3	3181.2	3330.4	3740.0	4102.1	4323.4	4323.4	4128.3	3777.8	3396.4	3047.9
12.5°	2941.4	2985.4	3155.8	3586.7	3960.6	4170.2	4205.2	4037.5	3700.1	3289.8	2907.0
15°	2876.1	2918.7	3102.2	3493.9	3810.8	3938.6	3950.3	3895.3	3662.3	3297.4	2900.8
17.5°	2957.2	3012.2	3197.7	3521.4	3673.3	3680.9	3689.8	3733.1	3666.4	3435.5	3025.9
20°	3191.6	3250.7	3444.5	3610.1	3553.0	3474.7	3479.5	3590.8	3715.2	3663.7	3324.9
22.5°	3529.7	3581.2	3779.8	3766.1	3502.2	3340.7	3307.0	3462.3	3787.4	3948.2	3643.1
25°	3894.6	3955.1	4183.2	3997.7	3516.6	3261.0	3239.7	3386.7	3862.3	4214.2	4010.7
27.5°	4312.4	4371.5	4551.6	4231.4	3592.2	3254.8	3229.4	3379.9	3929.7	4460.2	4361.9
30°	4623.1	4677.4	4799.7	4427.9	3685.0	3296.0	3264.4	3434.1	3987.4	4628.6	4704.2
32.5°	4867.0	4923.4	4990.1	4550.2	3807.3	3370.9	3312.5	3533.1	4063.0	4757.1	4957.8
35°	5121.3	5188.0	5183.2	4658.8	3921.4	3457.5	3400.5	3676.1	4181.9	4869.1	5279.4
37.5°	5443.6	5470.4	5436.1	4756.4	4058.2	3613.5	3581.9	3888.4	4350.9	5004.5	5655.3
40°	5770.8	5824.4	5647.8	4874.6	4224.5	3907.0	3903.5	4202.5	4551.6	5163.3	6019.6
42.5°	6051.2	6096.5	5845.7	4977.7	4425.8	4265.0	4291.1	4623.8	4814.8	5347.4	6312.3
45°	6262.2	6302.7	6028.5	5077.3	4691.1	4678.7	4832.7	5075.3	5146.8	5513.1	6484.1
47.5°	6441.5	6480.7	6155.6	5228.5	5018.9	5172.9	5440.9	5546.0	5430.6	5607.9	6676.6
50°	6592.7	6604.4	6242.9	5408.6	5425.8	5778.3	6038.1	6106.1	5711.0	5744.0	6843.6
52.5°	6750.1	6735.0	6393.4	5635.4	5865.6	6352.9	6541.9	6612.6	5979.7	5911.7	7086.8
55°	7102.6	7117.1	6730.9	5921.3	6310.3	6917.1	7165.9	7097.8	6277.3	6220.2	7396.1
57.5°	7528.7	7516.4	7205.7	6368.7	6763.2	7442.1	7627.7	7518.4	6674.5	6644.3	7709.5
60°	7694.4	7710.9	7603.0	6849.7	7209.9	7901.9	8091.6	7921.8	7150.8	7137.0	7945.9
62.5°	7528.1	7620.8	7693.7	7277.9	7590.6	8240.0	8428.3	8234.5	7647.6	7747.3	8111.5
65°	7196.8	7216.7	7464.8	7640.8	7774.1	8295.7	8394.0	8290.9	8062.7	8303.3	8104.0
67.5°	6766.6	6783.8	7074.5	7759.7	7537.7	7663.4	7732.2	7701.9	7934.2	8493.6	7730.8
70°	6357.0	6343.2	6650.4	7456.6	6561.8	6370.7	6427.8	6332.9	6846.3	8028.4	6998.9
72.5°	5559.8	5609.3	5939.1	6614.0	5195.6	4884.9	5009.3	4764.0	5265.7	6875.9	5680.7
75°	4355.1	4366.7	4917.2	5550.9	3919.3	3429.3	3597.7	3495.3	4033.4	5735.7	3922.8
77.5°	3015.6	2989.5	3581.2	4239.6	2795.0	2510.5	2513.2	2464.5	2816.3	4223.1	2665.1
80°	1915.3	1875.5	2241.8	2619.1	1920.8	2054.9	1987.5	1985.4	1833.6	2605.3	1611.6
82.5°	1035.0	1079.0	1416.4	1641.8	1377.9	1588.2	1455.6	1413.0	1258.3	1630.8	1030.9
85°	471.4	512.7	755.3	1116.8	1046.7	1058.4	707.2	834.3	1041.2	1324.3	550.5
87.5°	46.0	59.1	156.0	527.1	357.4	281.8	105.1	202.7	261.8	470.8	44.0
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°	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2
2.5°	3558.5	3522.8	3401.2	3300.8	3194.3	3113.2	3007.4	2936.6	2887.8	2814.3	2805.3
5°	3395.0	3307.7	3096.0	2880.2	2694.0	2553.8	2411.5	2281.0	2204.0	2179.9	2149.0
7.5°	3119.4	2972.3	2700.2	2452.8	2239.0	2030.1	1869.3	1755.2	1678.9	1634.3	1580.7
10°	2892.6	2722.2	2390.9	2087.8	1911.9	1782.0	1640.4	1518.1	1424.0	1343.6	1299.6
12.5°	2740.0	2547.6	2175.1	1929.1	1793.0	1654.9	1489.3	1351.8	1213.0	1121.6	1082.4
15°	2694.0	2490.6	2108.5	1850.1	1654.9	1474.1	1288.6	1109.2	971.8	885.2	856.3
17.5°	2806.7	2560.7	2107.8	1744.9	1492.7	1276.9	1039.1	870.7	729.9	665.3	644.6
20°	3017.0	2695.4	2114.0	1641.1	1316.8	1013.0	756.0	617.8	550.5	523.0	512.7
22.5°	3310.4	2900.8	2132.5	1538.7	1124.3	778.0	566.3	496.2	472.1	467.3	465.3
25°	3671.9	3155.1	2195.1	1446.6	962.1	593.8	473.5	441.9	428.2	423.3	422.7
27.5°	4004.6	3483.6	2270.6	1367.6	805.4	512.0	428.2	401.3	387.6	386.9	388.3
30°	4304.9	3758.5	2333.9	1279.0	686.6	455.0	398.6	371.8	358.7	358.1	362.2
32.5°	4564.7	3984.6	2380.6	1191.7	620.6	419.9	371.8	342.9	331.9	329.9	331.9
35°	4842.3	4210.0	2359.3	1123.6	582.8	391.0	351.9	323.7	310.6	304.4	304.4
37.5°	5159.1	4442.3	2322.9	1067.3	565.6	367.0	334.7	307.2	294.1	288.0	287.3
40°	5504.8	4674.6	2272.7	1017.1	548.4	352.6	323.0	294.1	278.3	272.1	270.8
42.5°	5809.9	4873.2	2231.5	984.1	520.2	355.3	312.7	284.5	264.6	256.3	255.7
45°	6075.2	5073.2	2223.9	964.9	496.9	351.2	309.9	277.0	253.6	244.7	243.3
47.5°	6282.8	5281.5	2267.2	953.9	471.4	329.2	327.8	272.1	244.0	234.3	233.0
50°	6535.7	5577.0	2366.2	931.2	448.1	308.6	346.4	271.5	236.4	224.0	220.6
52.5°	6872.4	5961.8	2500.2	890.7	414.4	289.3	330.6	271.5	227.5	215.1	211.0
55°	7381.7	6452.5	2631.5	833.6	367.0	263.9	298.3	263.2	214.4	203.4	200.7
57.5°	7719.1	6811.3	2715.3	754.6	307.9	245.3	257.0	250.2	201.4	189.7	189.7
60°	7736.3	6907.5	2675.4	654.9	270.8	228.2	223.4	252.2	189.7	177.3	175.9
62.5°	7538.4	6671.7	2467.9	565.6	250.8	209.6	202.0	221.3	178.0	165.6	163.6
65°	7229.1	6070.4	2107.8	523.0	239.8	193.1	182.1	181.4	165.6	153.9	151.2
67.5°	6660.8	5304.8	1731.9	498.3	234.3	174.6	164.3	160.8	151.2	141.6	140.2
70°	5823.0	4443.0	1388.9	487.9	231.6	155.3	147.1	142.9	134.7	127.1	126.5
72.5°	4530.3	3603.9	1146.3	481.1	230.2	137.4	128.5	123.0	118.2	111.3	111.3
75°	3254.1	2651.4	874.9	433.6	213.0	118.2	108.6	105.1	98.3	92.8	94.2
77.5°	2051.4	1785.5	575.9	318.9	164.9	94.8	86.6	84.5	79.0	71.5	76.3
80°	1385.5	1255.6	336.1	200.7	103.8	69.4	66.7	66.0	59.8	51.5	52.2
82.5°	942.9	925.0	174.6	114.1	59.8	40.5	39.2	40.5	33.7	27.5	27.5
85°	368.4	503.1	82.5	44.7	19.2	6.2	8.9	9.6	5.5	2.7	3.4
87.5°	6.9	51.5	2.1	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°	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2
2.5°	2791.6	2785.4	2795.7	2751.7	2760.7	2777.1	2785.4	2790.2	2858.2	2842.4	2885.7
5°	2177.9	2171.7	2211.5	2217.0	2237.7	2233.5	2253.5	2258.3	2283.0	2292.0	2352.4
7.5°	1584.1	1610.9	1656.3	1679.6	1714.7	1725.7	1715.4	1740.8	1689.2	1726.4	1737.3
10°	1272.8	1240.5	1221.2	1274.8	1281.7	1332.6	1311.9	1295.5	1325.7	1327.1	1355.9
12.5°	1059.7	990.3	944.3	959.4	975.9	997.9	1001.3	1034.3	1056.3	1076.9	1094.1
15°	830.9	806.8	764.9	744.3	767.6	776.6	797.9	825.4	848.7	854.9	878.3
17.5°	637.8	641.9	635.0	622.6	637.1	643.9	645.3	646.0	652.2	648.1	682.4
20°	513.4	527.8	545.0	547.7	552.5	556.0	549.8	526.4	527.1	541.5	552.5
22.5°	464.6	467.3	486.6	492.8	507.9	501.7	483.8	472.8	471.4	474.9	480.4
25°	426.1	430.2	444.0	453.6	465.3	454.3	441.2	430.9	429.5	433.0	438.5
27.5°	391.7	397.9	410.3	419.9	430.9	420.6	408.2	399.3	398.6	397.9	401.3
30°	364.2	371.1	380.0	391.0	398.6	389.7	378.0	373.2	372.5	371.1	372.5
32.5°	336.7	347.7	356.7	362.2	369.7	362.9	353.9	351.2	346.4	342.2	340.2
35°	305.8	317.5	331.3	338.1	345.7	338.8	332.6	320.9	312.7	312.0	313.4
37.5°	288.0	292.8	303.8	315.4	323.0	319.6	307.9	296.2	294.1	294.1	295.5
40°	272.1	274.2	279.0	294.1	307.9	297.6	283.1	279.7	279.7	279.0	279.7
42.5°	256.3	258.4	258.4	270.1	292.1	275.6	264.6	264.6	264.6	265.3	267.3
45°	241.9	242.6	241.9	250.2	270.8	257.0	249.5	251.5	252.9	254.3	255.7
47.5°	229.5	230.2	229.5	236.4	246.7	241.2	237.1	239.8	242.6	244.7	246.0
50°	218.5	217.9	219.2	223.4	228.2	229.5	226.8	230.9	232.3	235.0	238.5
52.5°	208.9	208.2	209.6	211.7	218.5	218.5	218.5	222.0	224.7	227.5	232.3
55°	197.9	198.6	200.7	203.4	212.4	211.0	211.7	214.4	217.2	221.3	224.0
57.5°	187.6	189.0	191.7	195.9	204.8	204.1	204.8	206.2	209.6	211.7	214.4
60°	175.9	178.7	182.1	184.9	193.8	193.1	196.6	199.3	201.4	201.4	202.7
62.5°	164.3	168.4	171.8	173.9	183.5	184.2	189.0	191.1	192.4	191.1	193.1
65°	152.6	158.8	160.1	162.9	172.5	173.2	178.7	183.5	182.1	180.7	184.2
67.5°	140.9	148.4	147.8	151.2	160.8	162.2	167.0	175.2	172.5	171.1	173.9
70°	127.8	133.3	134.0	136.1	149.1	147.1	154.6	162.2	160.1	160.8	160.8
72.5°	113.4	118.2	118.2	122.3	136.1	132.6	138.8	147.1	147.1	146.4	146.4
75°	96.2	99.0	101.7	107.9	122.3	118.2	122.3	129.9	131.3	129.9	129.9
77.5°	77.7	81.8	83.2	91.4	101.7	101.0	105.1	108.6	111.3	110.0	110.0
80°	55.0	59.1	64.6	73.5	79.7	81.8	83.8	86.6	88.0	88.0	89.3
82.5°	30.9	37.1	41.9	50.9	53.6	63.9	63.2	65.3	63.2	55.7	61.9
85°	6.9	13.1	18.6	23.4	26.8	37.1	39.2	44.0	36.4	33.7	33.7
87.5°	0.0	0.0	0.0	0.0	0.0	5.5	11.0	15.1	13.1	11.0	11.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2	3348.2
2.5°	2922.2	2981.9	3054.1	3178.5	3265.8	3359.9	3454.8	3555.8	3582.6	3610.1
5°	2368.9	2486.4	2550.4	2717.4	2892.6	3115.3	3297.4	3496.7	3579.8	3599.1
7.5°	1794.4	1874.1	2041.8	2210.9	2428.0	2661.7	2940.7	3251.3	3348.2	3388.8
10°	1422.6	1531.2	1678.2	1859.7	2050.0	2301.6	2616.3	2979.2	3116.6	3139.3
12.5°	1210.9	1331.9	1492.0	1683.7	1863.8	2053.5	2371.0	2745.5	2892.6	2941.4
15°	968.3	1114.7	1299.6	1501.6	1697.5	1905.0	2226.7	2649.3	2819.1	2876.1
17.5°	760.8	879.0	1079.0	1298.2	1530.5	1793.0	2196.4	2695.4	2904.3	2957.2
20°	582.1	666.6	835.0	1066.6	1338.7	1682.4	2204.0	2869.2	3119.4	3191.6
22.5°	503.1	546.4	648.8	869.4	1173.8	1586.2	2234.9	3107.7	3409.4	3529.7
25°	455.6	478.3	536.0	680.4	1016.4	1492.7	2305.7	3428.7	3814.9	3894.6
27.5°	415.1	431.6	467.3	571.1	873.5	1406.1	2388.2	3784.6	4193.6	4312.4
30°	376.6	398.6	432.3	507.2	782.1	1327.1	2491.9	4073.3	4512.4	4623.1
32.5°	347.1	369.0	400.0	462.5	704.4	1243.9	2553.8	4326.9	4772.9	4867.0
35°	323.0	341.6	373.9	426.8	645.3	1180.7	2541.4	4528.2	5025.1	5121.3
37.5°	305.8	321.6	353.9	393.1	600.6	1114.7	2535.2	4794.2	5332.3	5443.6
40°	290.0	306.5	336.1	371.1	556.0	1037.0	2538.7	5058.1	5659.4	5770.8
42.5°	277.6	296.2	320.3	364.9	509.9	974.5	2538.7	5287.6	5944.0	6051.2
45°	267.3	287.3	310.6	364.2	473.5	927.1	2521.5	5484.9	6170.7	6262.2
47.5°	258.4	280.4	314.1	351.9	464.6	892.7	2506.4	5642.9	6355.6	6441.5
50°	252.2	278.3	334.0	337.4	467.3	882.4	2579.2	5842.2	6518.5	6592.7
52.5°	247.4	279.0	333.3	316.1	462.5	889.3	2731.1	6153.6	6744.6	6750.1
55°	237.8	278.3	316.1	292.1	442.6	901.0	2926.3	6605.8	7098.5	7102.6
57.5°	228.2	270.8	293.5	271.5	402.0	901.0	3161.3	7033.9	7525.3	7528.7
60°	218.5	281.8	257.7	253.6	349.1	884.5	3409.4	7222.2	7659.3	7694.4
62.5°	208.9	283.8	230.2	237.8	310.6	844.6	3594.3	7014.0	7477.9	7528.1
65°	197.9	228.9	212.4	221.3	290.7	778.0	3535.9	6632.6	7137.0	7196.8
67.5°	184.9	193.8	193.1	204.1	283.8	679.7	3228.0	6150.1	6770.0	6766.6
70°	169.1	173.9	175.9	187.6	270.8	603.4	2689.9	5524.1	6280.0	6357.0
72.5°	152.6	156.7	158.8	169.1	257.7	560.1	2087.8	4661.6	5439.5	5559.8
75°	134.7	137.4	140.2	149.1	244.0	496.2	1487.2	3558.5	4166.1	4355.1
77.5°	116.1	116.1	119.6	128.5	205.5	409.6	997.9	2496.1	2822.5	3015.6
80°	94.2	94.8	93.5	103.1	151.2	280.4	567.0	1667.2	1878.2	1915.3
82.5°	72.2	70.1	70.8	75.6	112.7	191.1	302.4	1035.7	1055.6	1035.0
85°	45.4	45.4	44.0	49.5	72.2	99.7	164.9	634.3	495.5	471.4
87.5°	18.6	15.1	17.2	19.9	34.4	40.5	64.6	130.6	50.2	46.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)