

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: P651080

Luminaire Tested: **GALN-SA8C-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34287.6 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

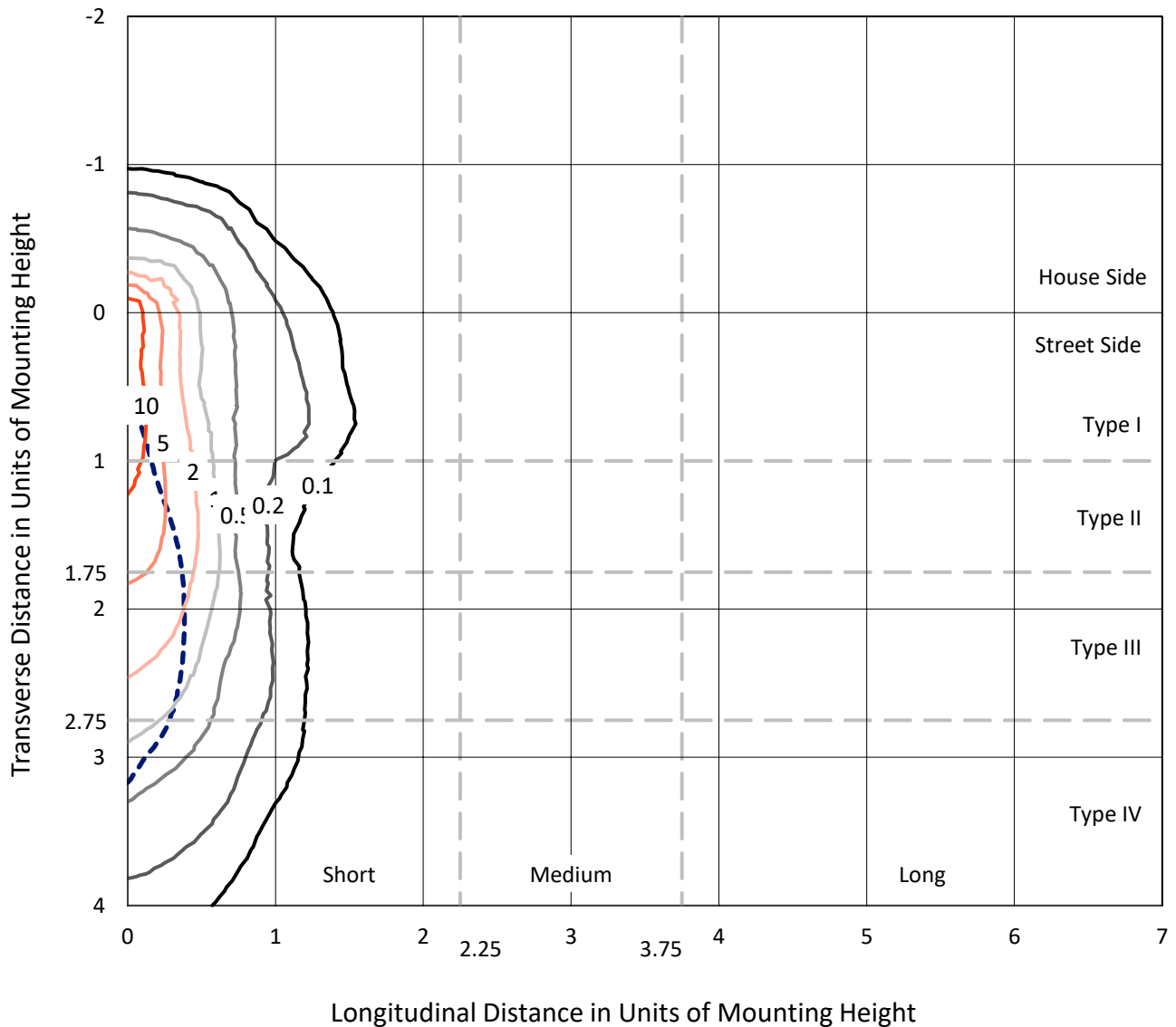
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

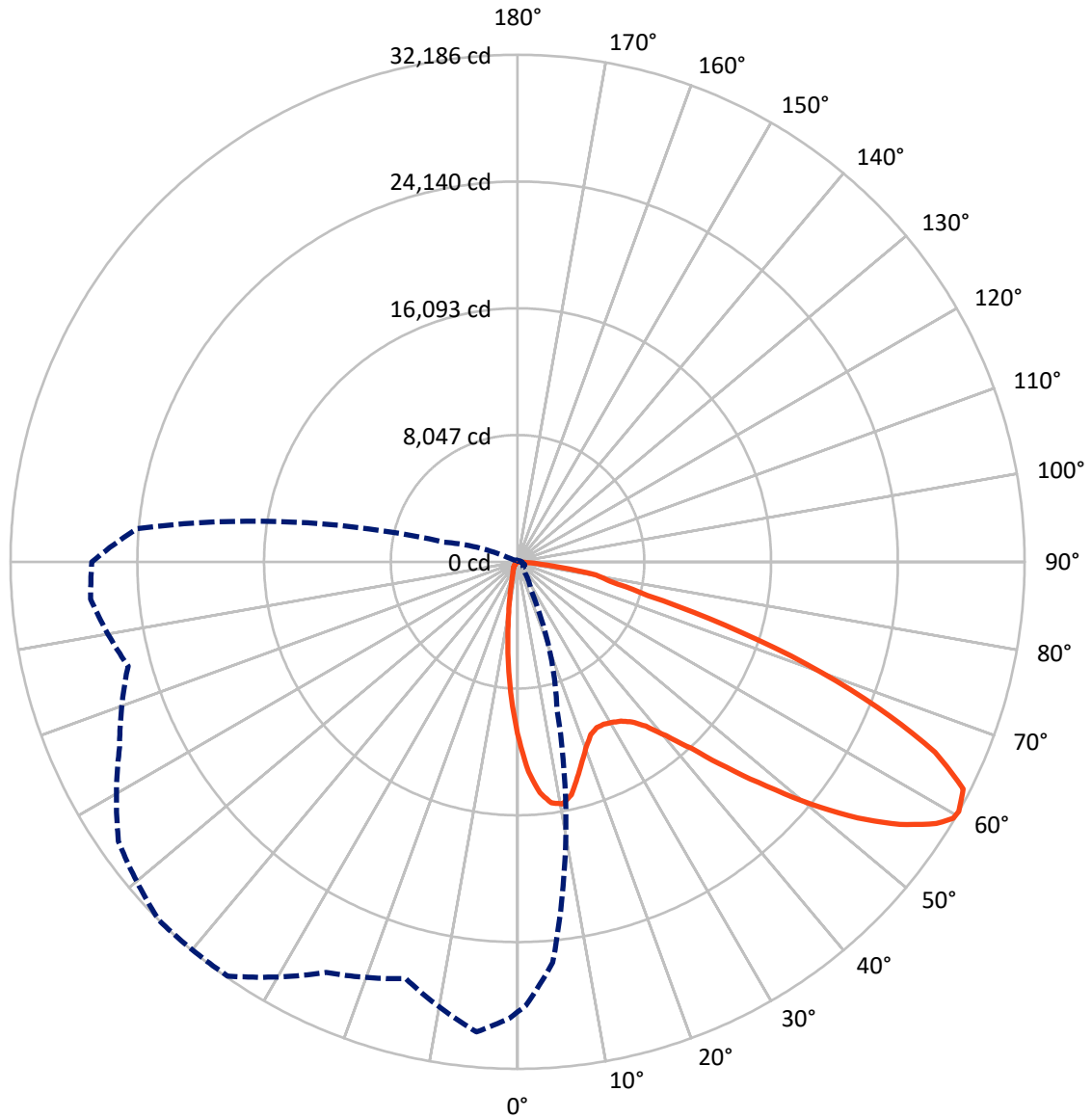
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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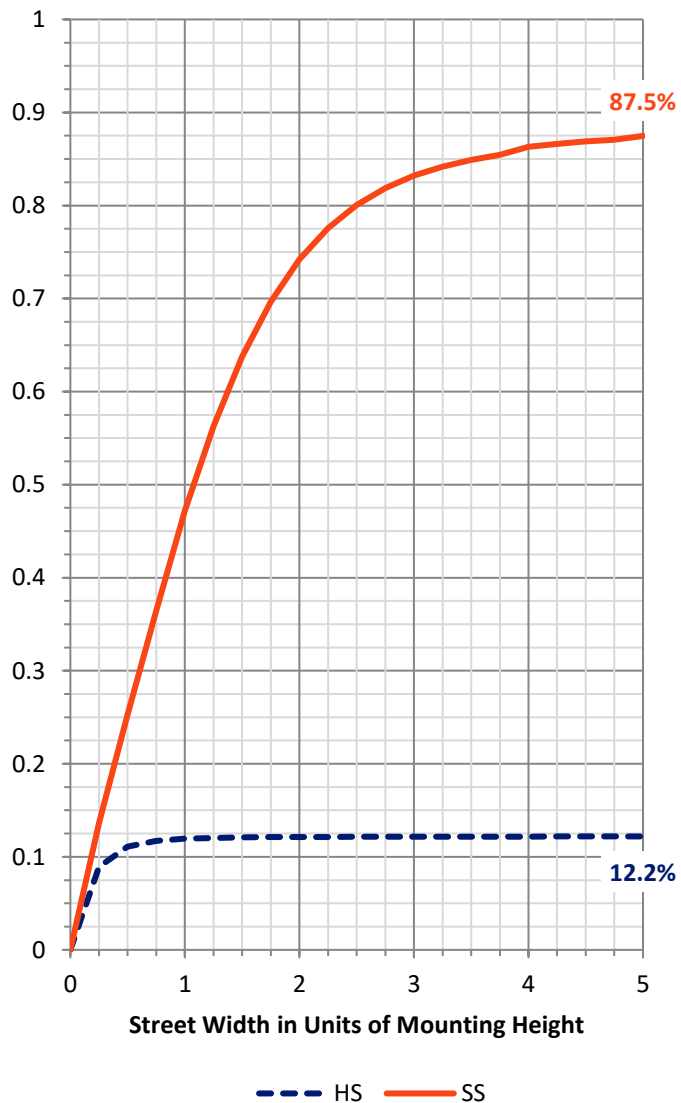
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4229.0	0.0	4229.0
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	30058.5	0.0	30058.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	34287.6	0.0	34287.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	842.9	2.5
10°-20°	1674.0	4.9
20°-30°	2454.5	7.2
30°-40°	3650.2	10.6
40°-50°	5312.2	15.5
50°-60°	7660.6	22.3
60°-70°	8425.9	24.6
70°-80°	3774.1	11.0
80°-90°	493.2	1.4
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°	34287.6	100.0
0°-180°	34287.6	100.0

Coefficient of Utilization

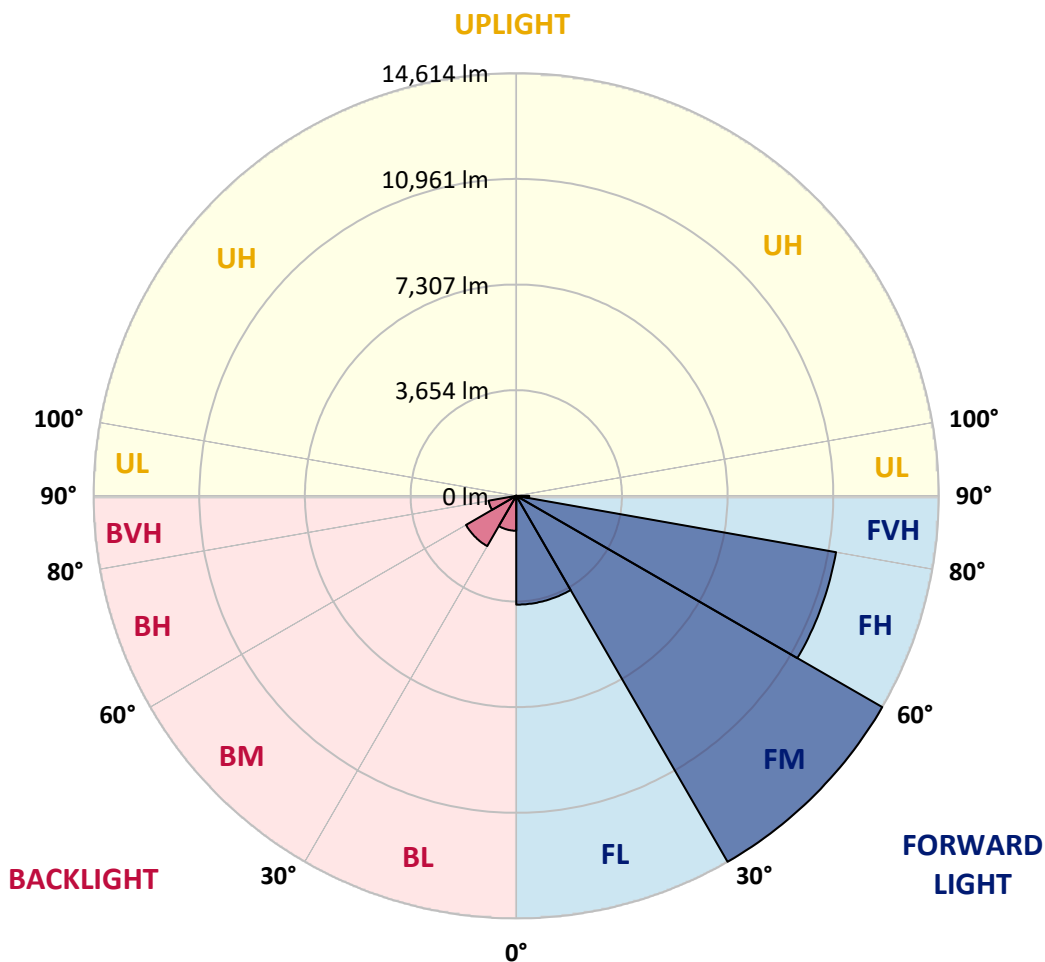


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3762.9	11.0			
FM (30°-60°)	14614.4	42.6			
FH (60°-80°)	11230.2	32.8			G4/12000
FVH (80°-90°)	451.0	1.3			G3/500
BL (0°-30°)	1208.4	3.5	B3/2500		
BM (30°-60°)	2008.7	5.9	B2/2500		
BH (60°-80°)	969.8	2.8	B2/1000		G2/1000
BVH (80°-90°)	42.2	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6
2.5°	12458.5	12403.7	12278.7	11898.1	11567.1	11134.4	10696.6	10352.5	10141.5	9753.1	9575.8
5°	12070.1	12096.2	11733.9	10952.0	10081.5	9487.2	8838.2	8322.2	7753.9	7394.3	7016.4
7.5°	11056.3	11004.1	10610.6	9521.1	8462.9	7602.8	6781.8	6114.6	5694.9	5358.7	5077.2
10°	10188.3	10149.3	9646.2	8244.0	7107.6	6463.8	5908.7	5324.8	4873.9	4381.4	3987.8
12.5°	9643.6	9555.0	8976.3	7511.6	6586.3	5986.8	5382.1	4774.9	4151.9	3654.1	3177.2
15°	9461.2	9333.4	8689.6	7258.8	6252.7	5491.6	4733.1	4034.7	3317.9	2768.0	2408.3
17.5°	9792.2	9581.0	8895.6	7214.4	5853.9	4845.3	3912.2	3002.5	2257.2	1837.5	1616.0
20°	10550.6	10308.2	9416.8	7170.1	5410.8	4120.6	2973.9	2121.6	1561.2	1331.9	1209.4
22.5°	11676.6	11343.0	10188.3	7240.5	5001.7	3414.4	2147.7	1498.7	1240.6	1097.3	1011.3
25°	13029.3	12750.4	11165.7	7490.7	4678.5	2859.2	1660.3	1225.0	1045.2	956.6	891.4
27.5°	14512.3	14066.7	12429.8	7790.4	4384.0	2429.1	1456.9	1094.6	930.5	849.7	815.8
30°	15567.9	15221.3	13488.0	7999.0	4016.4	2105.9	1331.9	1079.0	933.1	836.6	774.1
32.5°	16610.4	16167.4	14374.2	8095.4	3748.0	1881.8	1152.0	940.9	818.4	768.8	706.4
35°	17726.0	17262.0	15257.8	8043.3	3547.3	1733.2	1045.2	839.2	701.1	617.7	555.1
37.5°	18854.5	18364.6	16136.1	7855.6	3422.2	1673.3	961.8	797.5	662.0	576.0	508.2
40°	20194.2	19540.0	16959.7	7701.9	3291.8	1642.1	907.0	771.4	633.4	542.1	474.3
42.5°	21288.9	20666.0	17739.0	7621.1	3203.2	1569.1	907.0	750.7	615.1	513.4	443.1
45°	22326.2	21679.9	18580.9	7686.2	3166.8	1477.8	917.4	748.1	602.1	492.6	422.3
47.5°	23194.2	22633.7	19446.2	7931.2	3119.9	1378.7	862.7	784.5	594.3	474.3	401.4
50°	24218.4	23676.3	20590.4	8426.4	3036.4	1279.7	794.9	844.4	591.6	458.7	383.2
52.5°	25662.4	25075.9	22169.9	8989.4	2903.5	1128.5	732.4	836.6	581.2	432.7	364.9
55°	27426.9	26952.5	23999.5	9664.4	2721.1	959.2	633.4	742.9	549.9	388.4	333.6
57.5°	28558.1	28154.1	25370.4	9956.3	2442.2	784.5	557.8	622.9	503.0	346.7	297.1
59°	28691.1	28326.1	25657.1	9860.0	2259.8	716.8	521.3	534.3	490.0	323.2	276.3
60°	28578.9	28201.0	25542.5	9672.3	2090.3	669.9	490.0	474.3	492.6	310.2	260.6
62.5°	27859.6	27213.2	24429.6	8720.9	1827.1	615.1	435.3	388.4	435.3	278.9	231.9
65°	26470.4	25500.8	22227.2	7381.3	1722.8	583.8	370.1	325.8	331.0	245.0	200.7
67.5°	24043.9	22821.5	19295.0	5997.3	1678.5	586.4	312.8	291.9	255.4	208.5	177.2
70°	20207.2	18987.4	15481.9	4933.9	1657.7	586.4	265.8	250.2	213.7	174.6	153.7
72.5°	14319.5	13005.8	10443.8	3875.7	1493.4	583.8	226.7	226.7	174.6	146.0	125.1
75°	8090.2	8100.6	6565.4	2741.9	1240.6	482.1	182.4	179.8	127.7	112.1	93.9
77.5°	4714.9	4631.6	4425.6	1178.1	576.0	218.9	127.7	109.5	88.6	80.8	67.8
80°	2423.9	1993.8	1941.8	427.5	205.9	138.2	88.6	62.6	57.4	52.1	46.9
82.5°	716.8	719.4	641.2	172.0	114.7	91.2	44.3	33.9	31.3	28.7	28.7
85°	49.5	31.3	36.5	52.1	70.4	36.5	2.6	7.8	7.8	10.4	13.0
87.5°	5.2	2.6	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°	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6
2.5°	9380.3	9495.1	9281.3	9286.5	9109.3	9166.6	8958.1	9025.9	8903.4	8997.2	9273.5
5°	7058.1	7084.2	6912.1	6857.3	6883.4	6990.3	7032.0	6841.7	6922.5	6763.6	6753.1
7.5°	4973.0	5004.3	4905.2	4892.2	5079.8	5035.5	5116.3	4920.9	4735.8	4816.6	4668.1
10°	3862.6	3732.4	3529.0	3471.7	3435.2	3458.7	3458.7	3281.4	3255.3	3185.0	3291.8
12.5°	3049.5	2890.4	2697.6	2437.0	2371.8	2366.6	2270.2	2113.8	2064.2	2004.3	2092.9
15°	2215.4	2150.3	1988.6	1842.7	1694.1	1665.5	1509.1	1381.3	1212.0	1188.5	1180.7
17.5°	1558.6	1462.2	1459.6	1376.1	1290.2	1232.8	1086.8	940.9	875.7	867.9	867.9
20°	1167.6	1133.8	1079.0	1068.6	1042.6	977.4	847.1	768.8	737.6	740.2	750.7
22.5°	982.6	959.2	909.6	886.2	875.7	818.4	722.0	669.9	654.2	654.2	656.8
25°	878.3	857.5	802.7	766.2	753.3	711.6	636.0	596.9	583.8	583.8	583.8
27.5°	800.1	774.1	716.8	685.5	662.0	615.1	568.2	529.1	516.0	516.0	518.6
30°	745.5	716.8	664.6	622.9	586.4	544.7	505.6	471.7	456.1	453.6	456.1
32.5°	672.5	646.4	594.3	568.2	526.5	476.9	445.7	414.4	398.8	401.4	398.8
35°	523.9	516.0	479.5	487.4	463.9	422.3	393.6	359.7	341.4	338.8	344.1
37.5°	476.9	445.7	404.0	406.6	398.8	383.2	336.2	299.7	286.7	286.7	289.3
40°	440.5	409.2	362.3	338.8	341.4	341.4	291.9	252.8	239.8	237.2	242.4
42.5°	409.2	377.9	325.8	286.7	276.3	289.3	247.6	208.5	195.4	190.2	195.4
45°	388.4	354.5	294.5	250.2	218.9	234.6	203.3	172.0	156.3	156.3	153.7
47.5°	367.5	336.2	271.1	216.3	182.4	174.6	166.8	138.2	122.5	119.9	122.5
50°	349.3	318.0	245.0	187.6	153.7	135.6	135.6	109.5	99.1	93.9	96.5
52.5°	331.0	297.1	221.5	166.8	133.0	109.5	96.5	88.6	80.8	78.2	80.8
55°	304.9	271.1	198.1	143.4	114.7	91.2	75.6	73.0	67.8	62.6	67.8
57.5°	273.7	242.4	174.6	122.5	91.2	70.4	62.6	60.0	54.7	52.1	52.1
59°	255.4	226.7	161.6	106.9	80.8	62.6	57.4	54.7	49.5	44.3	46.9
60°	245.0	221.5	153.7	99.1	73.0	57.4	52.1	49.5	44.3	41.7	44.3
62.5°	216.3	198.1	135.6	80.8	57.4	41.7	36.5	39.1	36.5	33.9	36.5
65°	190.2	174.6	114.7	62.6	44.3	28.7	26.1	33.9	31.3	28.7	31.3
67.5°	169.4	151.2	96.5	46.9	31.3	15.6	18.2	28.7	28.7	26.1	28.7
70°	146.0	130.4	78.2	33.9	15.6	7.8	13.0	20.9	26.1	23.5	26.1
72.5°	119.9	101.7	60.0	23.5	7.8	0.0	7.8	18.2	26.1	23.5	26.1
75°	93.9	75.6	44.3	13.0	0.0	0.0	2.6	15.6	26.1	23.5	26.1
77.5°	67.8	54.7	26.1	2.6	0.0	0.0	2.6	15.6	26.1	23.5	26.1
80°	44.3	39.1	10.4	0.0	0.0	0.0	2.6	15.6	26.1	26.1	28.7
82.5°	28.7	20.9	0.0	0.0	0.0	0.0	5.2	20.9	28.7	31.3	31.3
85°	13.0	0.0	0.0	0.0	0.0	0.0	10.4	26.1	33.9	33.9	33.9
87.5°	0.0	0.0	0.0	0.0	0.0	5.2	18.2	31.3	39.1	39.1	39.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6
2.5°	9320.4	9484.6	9716.6	10073.7	10363.0	10819.0	11168.3	11645.3	12127.5	12273.5	12500.2
5°	6860.0	7071.1	7597.6	8077.1	8379.5	9343.8	9953.7	10915.5	11778.2	12192.6	12643.5
7.5°	4764.4	5014.6	5416.0	6085.9	6721.9	7506.3	8491.6	9591.4	10855.5	11447.2	12083.2
10°	3344.0	3656.8	4222.3	4772.3	5572.5	6317.8	7290.0	8504.6	9899.0	10597.5	11395.0
12.5°	2111.2	2390.0	3138.1	3755.8	4754.0	5619.3	6516.0	7615.8	9231.8	9948.5	10785.2
15°	1206.8	1441.3	1790.6	2582.9	3690.6	4834.8	5952.9	7230.1	8890.4	9773.9	10678.3
17.5°	899.2	961.8	1118.1	1566.4	2575.1	3912.2	5434.3	7112.8	9122.3	10159.7	11191.8
20°	755.9	797.5	870.5	1047.8	1642.1	3013.0	4928.7	7133.7	9872.9	11176.1	12156.2
22.5°	677.7	703.7	763.6	878.3	1120.7	2194.6	4337.0	7256.1	10782.5	12424.6	13555.7
25°	594.3	628.1	680.3	779.3	933.1	1522.1	3753.2	7529.8	12057.1	14009.3	15072.7
27.5°	529.1	560.4	612.5	703.7	818.4	1162.4	3072.9	7764.4	13402.0	15604.4	16474.9
30°	463.9	495.2	547.3	620.3	724.6	940.9	2340.5	7902.5	14707.8	16800.7	17470.5
32.5°	409.2	435.3	484.8	549.9	636.0	797.5	1845.3	7759.2	15706.0	17887.6	18335.9
35°	354.5	385.8	427.5	487.4	563.0	680.3	1535.2	7264.0	16563.5	19005.7	19167.3
37.5°	297.1	333.6	377.9	432.7	492.6	625.5	1232.8	6716.6	17480.9	20400.1	20134.3
40°	250.2	284.1	325.8	385.8	440.5	573.4	948.7	6132.8	18471.4	21708.6	21189.8
42.5°	203.3	239.8	289.3	344.1	435.3	500.4	735.0	5528.1	19360.2	22847.5	22143.8
45°	161.6	192.8	245.0	315.4	432.7	430.1	568.2	4931.3	20030.0	23660.7	22855.4
47.5°	127.7	153.7	205.9	307.6	398.8	364.9	456.1	4561.2	20733.8	24393.1	23400.1
50°	101.7	127.7	177.2	320.6	349.3	312.8	383.2	4621.1	21414.0	24765.8	23624.2
52.5°	86.0	112.1	153.7	252.8	268.4	273.7	336.2	4897.4	22292.4	25164.6	24069.9
55°	75.6	99.1	130.4	177.2	208.5	245.0	307.6	5098.1	23467.9	26019.4	25052.5
57.5°	60.0	86.0	117.3	151.2	172.0	213.7	284.1	5113.7	24531.2	27116.8	26358.3
59°	54.7	78.2	109.5	143.4	153.7	192.8	268.4	4980.8	24570.3	27280.9	26957.8
60°	49.5	75.6	104.3	133.0	146.0	182.4	255.4	4827.0	24215.8	27020.3	27205.3
62.5°	41.7	65.2	91.2	106.9	125.1	151.2	221.5	4269.3	22498.3	25839.6	26746.7
65°	36.5	57.4	78.2	88.6	104.3	130.4	195.4	3417.0	20600.8	24239.3	25433.0
67.5°	33.9	52.1	67.8	75.6	91.2	119.9	174.6	2413.5	18143.0	22209.0	23460.0
70°	31.3	49.5	60.0	70.4	80.8	101.7	148.6	1407.4	13975.4	18648.7	19970.0
72.5°	31.3	46.9	52.1	60.0	70.4	91.2	138.2	761.0	9555.0	14225.6	15932.8
75°	31.3	44.3	46.9	52.1	62.6	83.4	122.5	398.8	6177.1	9883.3	12197.9
77.5°	31.3	41.7	46.9	49.5	60.0	73.0	106.9	250.2	4115.4	6922.5	8244.0
80°	33.9	41.7	44.3	49.5	57.4	67.8	88.6	166.8	2418.7	4165.0	5017.2
82.5°	36.5	41.7	46.9	52.1	60.0	65.2	78.2	104.3	1115.5	2754.9	3117.3
85°	39.1	44.3	49.5	54.7	62.6	65.2	73.0	75.6	182.4	1243.3	1681.1
87.5°	41.7	46.9	52.1	57.4	67.8	67.8	67.8	67.8	62.6	133.0	338.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6	11332.6
2.5°	12786.9	13081.4	13287.3	13339.4	13190.9	13123.1	12935.4	12643.5	12466.3	12458.5
5°	13475.0	14165.6	14645.3	14726.1	14439.3	13954.5	13378.5	12635.7	12200.5	12070.1
7.5°	13357.7	14567.0	15338.5	15450.6	14968.5	14043.2	12927.6	11731.3	11257.0	11056.3
10°	12875.5	14350.7	15453.2	15630.5	14986.7	13683.5	12265.6	10931.1	10342.1	10188.3
12.5°	12463.7	13954.5	14934.6	15179.5	14692.2	13391.6	11869.5	10417.7	9787.0	9643.6
15°	12283.9	13485.4	14084.9	14210.0	14129.1	13209.1	11827.7	10339.5	9617.5	9461.2
17.5°	12463.7	13086.6	13162.2	13289.9	13469.8	13190.9	12229.1	10764.4	9985.0	9792.2
20°	12935.4	12740.0	12427.2	12482.0	12893.8	13266.4	12943.2	11705.2	10756.6	10550.6
22.5°	13738.2	12653.9	11945.1	11898.1	12419.4	13519.2	13991.0	12979.7	11879.9	11676.6
25°	14723.5	12870.3	11767.8	11666.2	12234.4	13889.4	15130.0	14541.0	13339.4	13029.3
27.5°	15797.3	13318.6	11767.8	11668.8	12218.7	14217.8	16104.8	15922.4	14851.1	14512.3
30°	16386.3	13688.7	11937.2	11825.1	12411.6	14408.1	16626.1	17150.0	15987.5	15567.9
32.5°	16912.8	14202.1	12268.3	12057.1	12815.6	14689.6	17092.7	18192.5	16891.9	16610.4
35°	17397.6	14752.1	12724.3	12479.3	13347.3	15075.3	17608.7	19287.2	18150.8	17726.0
37.5°	17931.9	15390.6	13435.9	13227.3	14236.0	15825.9	18221.2	20725.9	19388.8	18854.5
40°	18513.1	16130.9	14606.2	14517.5	15648.7	16675.6	18995.2	22261.1	20801.5	20194.2
42.5°	19104.7	16983.2	16039.6	16185.6	17249.0	17866.7	19790.2	23441.8	21958.8	21288.9
45°	19641.6	18072.6	17903.2	18625.2	19115.2	19029.1	20379.3	24273.2	22967.4	22326.2
47.5°	20319.3	19659.9	20157.8	21270.7	21283.7	20293.2	20824.9	24953.5	23835.4	23194.2
50°	21077.8	21533.9	23069.1	24202.8	23897.9	21536.5	21346.3	25758.8	24732.0	24218.4
52.5°	21956.2	23632.0	25758.8	27017.7	26306.1	22891.9	22214.2	26629.3	26155.0	25662.4
55°	22977.8	25062.9	28440.8	29444.3	28727.5	24575.5	23532.9	27810.0	27763.2	27426.9
57.5°	24132.5	26574.6	29994.2	31352.1	30713.6	26551.2	25375.7	28923.0	28745.7	28558.1
59°	25044.7	27351.3	30679.7	32087.1	31701.4	27935.2	26613.7	29616.2	28972.5	28691.1
60°	25597.3	27877.8	30932.5	32186.2	32097.5	28758.8	27398.3	29955.1	28969.9	28578.9
62.5°	27236.6	28797.9	30836.0	31745.6	32092.3	30338.2	29699.7	30327.8	28432.9	27859.6
65°	27820.4	28492.9	29238.4	29126.3	29423.4	30257.4	31169.6	29918.6	27286.2	26470.4
67.5°	26684.1	25148.9	25412.2	24664.2	24518.2	26900.4	30572.8	27916.9	25042.1	24043.9
70°	22493.0	19266.4	19133.4	19477.5	18534.0	21778.9	27453.0	24062.1	21338.4	20207.2
72.5°	17705.2	13615.7	12495.0	13761.7	13733.0	16615.6	22805.8	17074.4	14415.9	14319.5
75°	13923.3	9479.4	8319.6	8525.5	8921.7	12028.4	18163.8	10842.5	8877.3	8090.2
77.5°	9346.5	6716.6	6265.7	6012.9	6440.4	7722.7	11491.5	5880.0	4978.2	4714.9
80°	5387.4	4879.1	5541.2	5030.3	5259.7	4866.1	5715.8	2697.6	2238.9	2423.9
82.5°	3505.5	2778.4	2960.8	2199.8	3007.8	3033.8	1834.9	797.5	675.1	716.8
85°	2192.0	1303.2	732.4	521.3	1037.4	1907.9	573.4	49.5	57.4	49.5
87.5°	568.2	216.3	91.2	135.6	166.8	148.6	133.0	7.8	2.6	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)