

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: P383620

Luminaire Tested: **GLEON-SA9A-735-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9A-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA 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: 28769 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

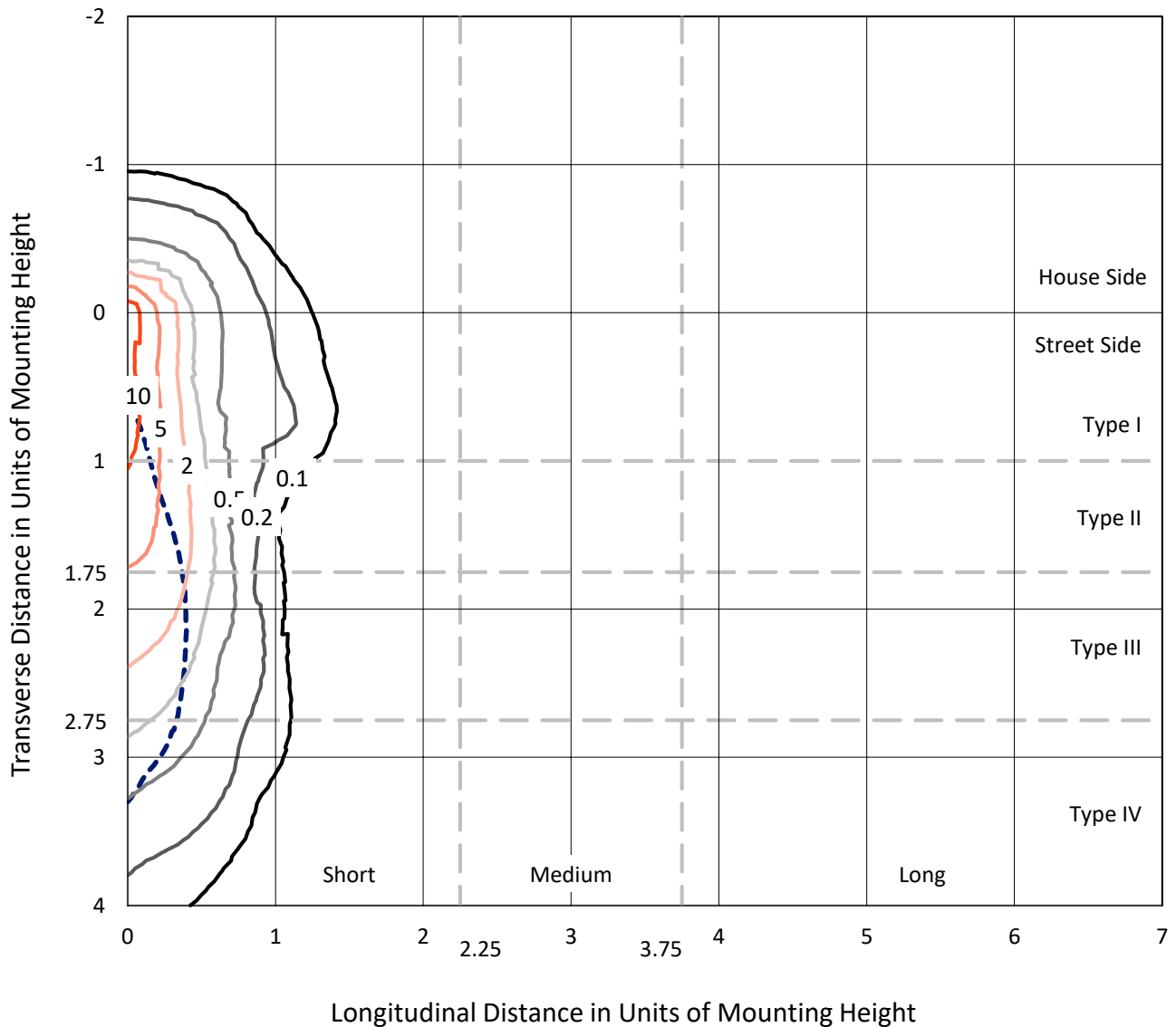
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

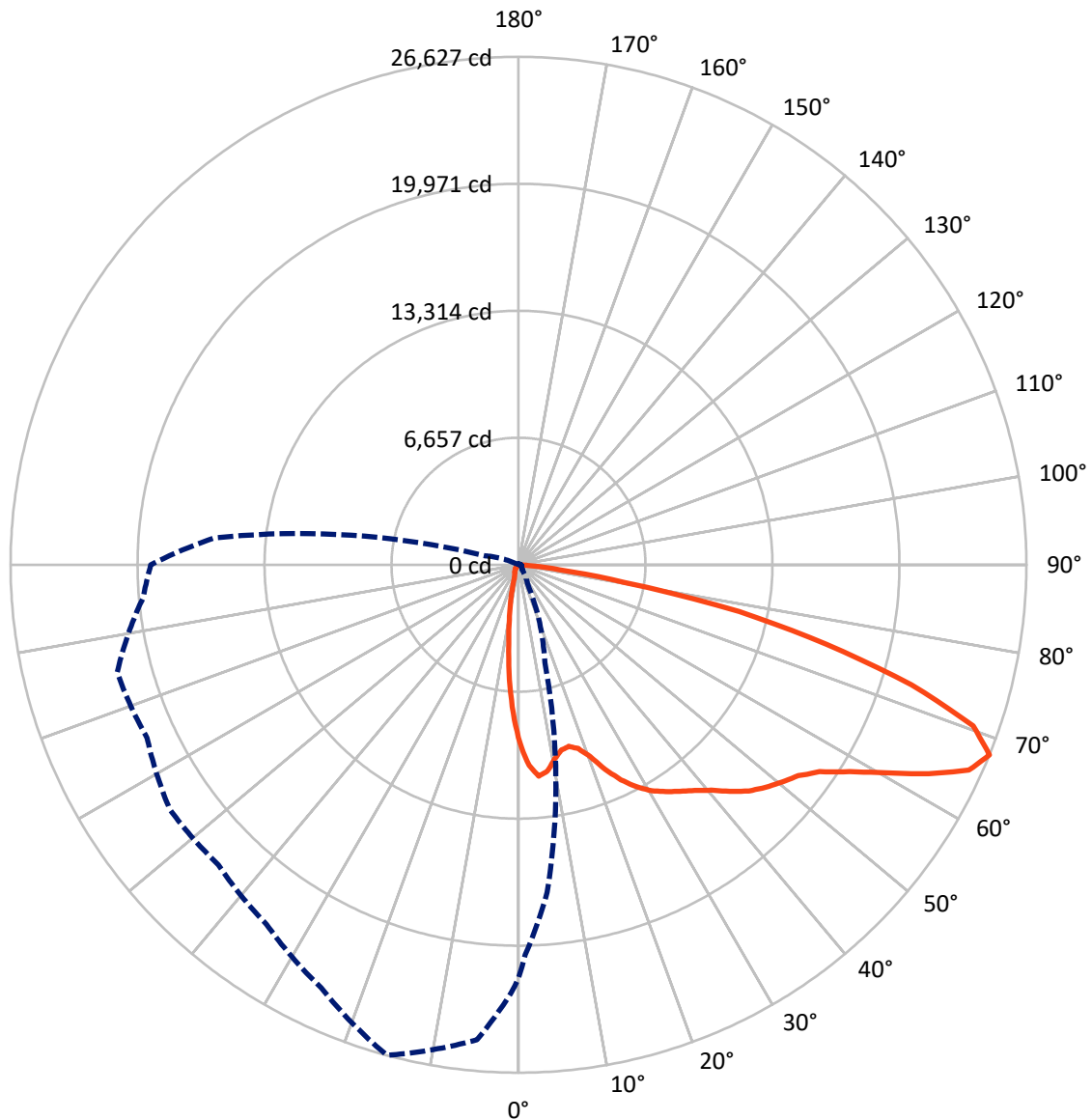
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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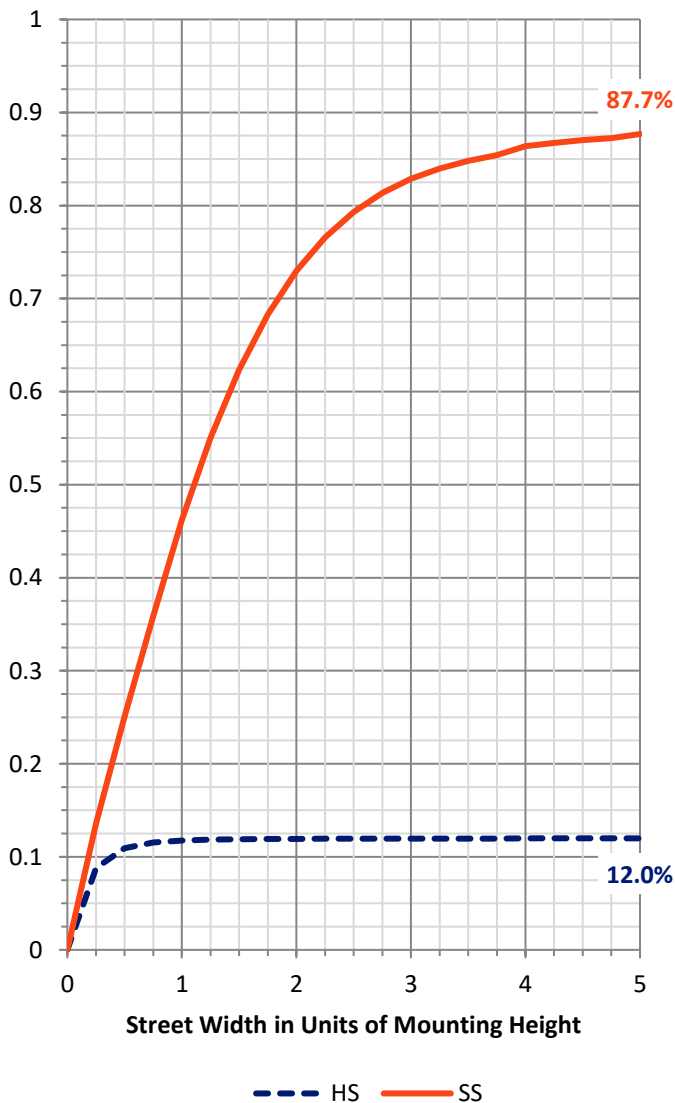
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3482.0	0.0	3482.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	25287.0	0.0	25287.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	28769.0	0.0	28769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.3	2.5
10°-20°	1431.6	5.0
20°-30°	2032.9	7.1
30°-40°	3002.8	10.4
40°-50°	4330.7	15.1
50°-60°	6079.3	21.1
60°-70°	7086.8	24.6
70°-80°	3622.9	12.6
80°-90°	462.7	1.6
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°	28769.0	100.0
0°-180°	28769.0	100.0

Coefficient of Utilization

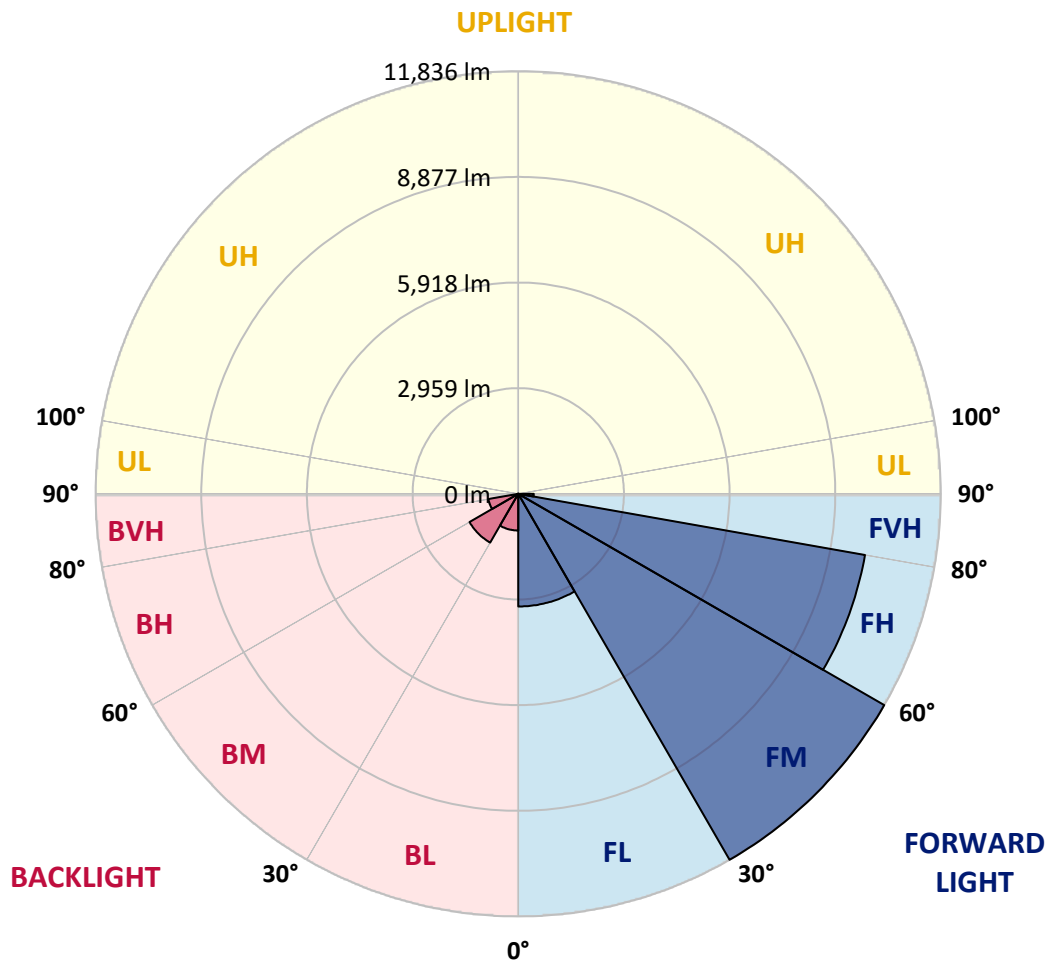


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3155.4	11.0			
FM (30°-60°)	11836.0	41.1			
FH (60°-80°)	9861.0	34.3			G4/12000
FVH (80°-90°)	434.6	1.5			G3/500
BL (0°-30°)	1028.4	3.6	B3/2500		
BM (30°-60°)	1576.8	5.5	B2/2500		
BH (60°-80°)	848.7	2.9	B2/1000		G2/1000
BVH (80°-90°)	28.1	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-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5
2.5°	10261.5	10182.4	10095.2	9810.3	9545.9	9243.4	8996.6	8824.9	8609.5	8330.2	8259.3
5°	10187.9	10103.3	9829.4	9195.6	8640.9	8101.2	7580.6	7275.3	6896.3	6512.1	6416.6
7.5°	9447.8	9359.2	8963.9	8095.7	7348.9	6569.3	5893.2	5474.9	5046.9	4695.3	4508.5
10°	8677.7	8581.0	8136.6	7083.1	6163.1	5458.5	4962.4	4563.1	4158.2	3782.1	3482.2
12.5°	8147.5	8020.8	7538.3	6344.4	5543.0	5064.6	4601.2	4122.8	3574.9	3171.5	2841.7
15°	7925.4	7780.9	7271.2	6059.5	5323.6	4762.1	4158.2	3570.8	2928.9	2466.9	2164.4
17.5°	8097.1	7909.0	7362.5	6040.4	5048.2	4283.6	3520.4	2830.8	2134.4	1666.8	1451.5
20°	8680.4	8433.8	7740.0	6035.0	4714.4	3715.3	2747.7	1968.1	1406.5	1131.2	1018.1
22.5°	9599.0	9273.3	8282.5	6078.6	4369.5	3118.4	1984.4	1337.1	1056.3	913.2	846.4
25°	10708.5	10331.0	9063.4	6232.6	4067.0	2537.7	1441.9	1056.3	891.3	786.4	730.5
27.5°	11763.4	11456.7	10050.2	6454.8	3832.6	2068.9	1170.8	895.4	761.9	692.3	647.4
30°	12816.9	12431.2	11062.9	6719.2	3550.4	1751.3	1029.0	816.4	682.8	609.2	580.6
32.5°	13582.9	13262.5	11856.1	6910.0	3249.2	1544.2	920.0	746.9	637.8	562.8	520.6
35°	14483.8	14121.2	12536.1	6952.2	3055.7	1413.3	827.3	671.9	553.3	486.5	441.6
37.5°	15456.9	15005.7	13321.2	6859.5	2904.4	1349.3	757.8	637.8	516.5	448.4	400.7
40°	16533.6	16023.8	14074.8	6726.1	2755.8	1327.5	704.6	611.9	487.9	418.5	369.4
42.5°	17667.5	17066.5	14727.8	6585.7	2661.8	1252.6	699.2	586.0	466.1	391.2	342.1
45°	18620.2	18011.0	15398.3	6539.3	2595.0	1170.8	722.3	568.3	451.1	369.4	321.7
47.5°	19379.4	18802.8	16085.2	6642.9	2556.8	1095.8	658.3	591.5	443.0	350.3	304.0
50°	20285.8	19632.8	17052.9	6952.2	2500.9	1020.8	595.6	677.3	443.0	338.0	289.0
52.5°	21422.4	20776.4	18132.3	7432.0	2389.2	917.2	535.6	678.7	447.0	321.7	269.9
55°	22852.1	22383.2	19673.7	7958.1	2210.7	764.6	463.4	583.3	430.7	291.7	252.2
57.5°	24223.2	23840.2	21079.0	8317.9	1972.2	596.9	403.5	470.2	393.9	256.3	224.9
59°	24598.0	24179.6	21594.1	8334.3	1793.6	520.6	373.5	388.5	385.7	239.9	208.5
60°	24598.0	24153.7	21742.7	8247.0	1664.1	478.3	354.4	346.2	402.1	229.0	199.0
62.5°	24152.3	23528.1	21260.2	7656.9	1357.5	407.6	309.4	286.2	361.2	205.8	175.8
65°	23225.5	22316.4	19616.5	6589.8	1210.3	373.5	267.2	234.4	250.8	181.3	154.0
67.5°	21680.0	20447.9	17246.4	5323.6	1151.7	363.9	230.4	199.0	189.5	155.4	134.9
70°	18958.2	17591.3	14369.3	4185.5	1101.3	359.9	193.6	167.7	152.7	130.9	114.5
72.5°	13798.2	12372.6	10201.5	3272.3	1071.3	368.0	155.4	140.4	125.4	102.2	88.6
75°	7892.6	6959.0	5733.8	2161.6	913.2	351.7	120.0	117.2	90.0	73.6	61.3
77.5°	4077.8	3953.9	3435.9	830.0	437.5	154.0	79.1	68.2	53.2	45.0	36.8
80°	1759.5	1740.4	1506.0	239.9	115.9	85.9	45.0	28.6	24.5	19.1	15.0
82.5°	607.8	607.8	535.6	80.4	51.8	42.3	5.5	0.0	0.0	0.0	0.0
85°	122.7	137.7	96.8	0.0	17.7	0.0	0.0	0.0	0.0	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°	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5
2.5°	8173.4	8008.5	7997.6	7894.0	7764.5	7705.9	7671.9	7731.8	7805.4	7813.6	7924.0
5°	6344.4	6171.3	6243.5	6059.5	6096.3	6059.5	5999.5	6010.4	6043.2	5940.9	6067.7
7.5°	4455.4	4324.5	4407.7	4358.6	4424.0	4449.9	4413.1	4358.6	4197.8	4178.7	4289.1
10°	3358.2	3209.6	3121.1	3028.4	3048.9	3091.1	3077.5	3038.0	2935.8	2941.2	3047.5
12.5°	2698.6	2532.3	2356.5	2128.9	2073.0	2104.4	2073.0	2049.9	1951.7	1959.9	2053.9
15°	2047.1	1910.8	1726.8	1544.2	1444.7	1454.2	1367.0	1305.7	1244.4	1170.8	1228.0
17.5°	1382.0	1298.9	1244.4	1189.9	1071.3	1044.0	933.6	815.0	768.7	734.6	759.1
20°	978.6	933.6	911.8	909.1	840.9	806.8	699.2	625.5	602.4	595.6	610.6
22.5°	817.7	785.0	753.7	736.0	701.9	662.4	580.6	543.8	527.4	519.2	530.1
25°	711.4	686.9	654.2	624.2	610.6	568.3	509.7	482.4	471.5	463.4	468.8
27.5°	632.4	610.6	572.4	553.3	542.4	505.6	455.2	433.4	423.9	421.2	419.8
30°	569.7	549.2	513.8	492.0	472.9	440.2	410.3	388.5	378.9	376.2	373.5
32.5°	507.0	490.6	467.5	445.7	425.3	395.3	369.4	351.7	336.7	334.0	332.6
35°	428.0	411.6	399.4	398.0	378.9	350.3	331.2	308.1	295.8	291.7	293.1
37.5°	380.3	358.5	331.2	340.8	335.3	314.9	289.0	265.8	253.5	250.8	250.8
40°	350.3	327.1	295.8	279.4	295.8	291.7	250.8	227.6	215.4	214.0	211.3
42.5°	321.7	298.5	263.1	235.8	244.0	256.3	216.7	194.9	182.7	179.9	175.8
45°	301.2	276.7	237.2	205.8	189.5	215.4	185.4	158.1	151.3	145.8	143.1
47.5°	282.2	259.0	214.0	178.6	151.3	155.4	148.6	129.5	121.3	115.9	114.5
50°	265.8	241.3	193.6	152.7	125.4	114.5	120.0	102.2	95.4	90.0	87.2
52.5°	246.7	223.5	171.7	132.2	105.0	90.0	91.3	80.4	73.6	69.5	68.2
55°	231.7	208.5	154.0	115.9	92.7	73.6	65.4	62.7	58.6	55.9	54.5
57.5°	211.3	189.5	136.3	98.1	79.1	60.0	50.4	50.4	49.1	46.3	45.0
59°	199.0	179.9	125.4	88.6	72.2	51.8	45.0	46.3	45.0	42.3	40.9
60°	189.5	171.7	117.2	81.8	68.2	47.7	40.9	43.6	42.3	39.5	38.2
62.5°	167.7	155.4	100.9	68.2	60.0	38.2	34.1	36.8	36.8	35.4	34.1
65°	147.2	133.6	85.9	57.2	55.9	32.7	27.3	32.7	34.1	31.4	28.6
67.5°	128.1	114.5	75.0	46.3	51.8	25.9	20.4	27.3	36.8	28.6	25.9
70°	109.0	95.4	58.6	36.8	54.5	17.7	16.4	24.5	43.6	31.4	24.5
72.5°	84.5	73.6	40.9	27.3	58.6	12.3	12.3	20.4	49.1	34.1	23.2
75°	58.6	47.7	24.5	16.4	47.7	8.2	8.2	19.1	46.3	31.4	21.8
77.5°	34.1	25.9	8.2	1.4	24.5	0.0	1.4	13.6	32.7	19.1	9.5
80°	12.3	5.5	0.0	0.0	15.0	0.0	0.0	0.0	2.7	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5
2.5°	7952.6	8136.6	8301.6	8551.0	8846.7	9187.5	9480.5	9795.3	10091.1	10213.8	10298.3
5°	6093.6	6321.2	6587.0	6953.6	7441.6	8042.6	8605.5	9242.0	9926.2	10268.3	10589.9
7.5°	4308.2	4539.9	4869.8	5259.5	5849.7	6565.2	7301.2	8180.3	9107.0	9648.1	10181.0
10°	3098.0	3382.7	3690.8	4223.7	4823.4	5502.1	6259.9	7241.2	8274.3	8874.0	9515.9
12.5°	2108.5	2432.8	2899.0	3495.9	4200.5	4865.7	5523.9	6460.3	7659.7	8253.9	8942.1
15°	1264.8	1444.7	1938.1	2629.1	3493.2	4321.8	5042.8	5981.8	7260.3	7988.1	8703.6
17.5°	779.6	862.7	1131.2	1698.2	2605.9	3654.0	4642.1	5819.7	7317.5	8203.4	8969.4
20°	621.5	654.2	740.0	1003.1	1726.8	2918.0	4190.9	5787.0	7785.0	8875.3	9697.2
22.5°	539.7	571.0	628.3	729.1	1086.3	2184.8	3763.0	5817.0	8455.6	9882.5	10842.0
25°	475.6	502.9	557.4	640.5	795.9	1538.7	3305.0	5950.5	9329.2	11132.4	12151.8
27.5°	425.3	448.4	498.8	575.1	682.8	1074.0	2785.8	6112.7	10365.1	12410.7	13416.6
30°	378.9	399.4	444.3	515.1	592.8	825.9	2216.2	6223.1	11402.2	13416.6	14320.2
32.5°	339.4	354.4	395.3	455.2	515.1	658.3	1684.6	6205.4	12172.3	14253.4	14970.3
35°	298.5	313.5	348.9	400.7	448.4	543.8	1324.8	5874.2	12842.8	15121.6	15714.5
37.5°	253.5	272.6	306.7	353.0	385.7	478.3	1071.3	5474.9	13522.9	16113.8	16544.5
40°	215.4	234.4	264.4	314.9	335.3	453.8	823.2	4988.3	14287.5	17223.2	17455.0
42.5°	178.6	196.3	227.6	271.3	316.2	391.2	609.2	4432.2	15022.1	18171.8	18285.0
45°	144.5	162.2	194.9	238.5	338.0	324.4	471.5	3836.6	15615.0	18961.0	18997.8
47.5°	114.5	130.9	164.9	224.9	314.9	259.0	336.7	3369.1	16112.4	19577.0	19480.2
50°	88.6	102.2	137.7	257.6	275.3	214.0	254.9	3213.7	16558.2	19958.6	19707.8
52.5°	69.5	81.8	113.1	241.3	214.0	177.2	214.0	3359.6	17168.7	20274.9	19835.9
55°	55.9	68.2	88.6	137.7	145.8	149.9	182.7	3495.9	18222.3	21016.3	20592.3
57.5°	46.3	58.6	72.2	96.8	110.4	126.8	162.2	3510.9	19463.8	22248.3	21847.6
59°	42.3	53.2	65.4	85.9	96.8	115.9	152.7	3429.1	19901.4	22696.7	22496.4
60°	39.5	50.4	61.3	79.1	90.0	109.0	147.2	3351.4	19920.5	22680.4	22773.1
62.5°	34.1	45.0	54.5	66.8	76.3	92.7	132.2	3063.9	19113.6	21937.6	22606.8
65°	30.0	39.5	49.1	57.2	65.4	83.1	120.0	2539.1	17735.7	20739.6	21468.7
67.5°	27.3	34.1	45.0	50.4	58.6	73.6	106.3	1810.0	16014.3	19274.5	19747.3
70°	24.5	32.7	40.9	46.3	53.2	64.1	91.3	1039.9	13522.9	17129.2	17465.9
72.5°	23.2	31.4	36.8	43.6	47.7	57.2	83.1	489.2	9901.6	13721.9	14601.0
75°	20.4	28.6	34.1	40.9	45.0	51.8	70.9	234.4	6585.7	9930.2	10929.3
77.5°	12.3	23.2	31.4	36.8	39.5	45.0	58.6	134.9	4203.2	6873.2	8095.7
80°	0.0	8.2	23.2	31.4	34.1	38.2	45.0	106.3	2248.8	3926.6	4713.0
82.5°	0.0	0.0	16.4	24.5	23.2	25.9	34.1	66.8	1014.0	2566.4	2892.1
85°	0.0	0.0	5.5	19.1	16.4	12.3	23.2	23.2	222.2	1298.9	1620.5
87.5°	0.0	0.0	0.0	1.4	8.2	5.5	9.5	2.7	1.4	96.8	392.6
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°	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5	9371.5
2.5°	10594.0	10694.8	10865.2	10945.6	10906.1	10738.4	10538.1	10333.7	10213.8	10261.5
5°	11245.5	11764.7	12064.6	12164.1	11997.8	11621.6	11129.6	10480.8	10250.6	10187.9
7.5°	11245.5	12222.6	12841.5	12950.5	12579.8	11842.4	10919.7	9907.1	9570.4	9447.8
10°	10850.2	12180.5	13043.2	13216.2	12698.3	11595.7	10359.6	9203.8	8804.4	8677.7
12.5°	10404.5	11837.0	12746.0	12984.6	12559.3	11350.4	9971.1	8728.1	8258.0	8147.5
15°	10130.6	11414.4	12166.8	12339.8	12160.0	11207.3	9878.4	8585.0	8031.7	7925.4
17.5°	10228.8	11087.4	11358.5	11459.4	11580.7	11156.9	10130.6	8898.5	8198.0	8097.1
20°	10598.0	10742.5	10602.1	10728.9	11056.0	11206.0	10731.6	9656.3	8815.3	8680.4
22.5°	11225.1	10564.0	10170.1	10220.6	10618.5	11368.1	11650.2	10738.4	9768.0	9599.0
25°	11955.6	10708.5	9930.2	9885.3	10294.2	11582.1	12489.8	11916.0	10895.2	10708.5
27.5°	12874.2	11032.9	9881.2	9836.2	10181.0	11782.5	13187.6	13080.0	12082.3	11763.4
30°	13582.9	11351.7	10027.0	9923.4	10294.2	11921.5	13747.8	14068.0	13028.2	12816.9
32.5°	14091.2	11727.9	10264.2	10114.3	10613.0	12161.4	14179.8	14973.0	13903.2	13582.9
35°	14478.3	12136.9	10647.1	10400.4	11051.9	12525.2	14584.6	15936.6	14834.1	14483.8
37.5°	14840.9	12710.6	11245.5	10951.1	11740.2	13111.3	15012.5	17029.7	15875.3	15456.9
40°	15346.5	13360.7	12168.2	11906.5	12897.3	13910.0	15546.9	18169.1	17059.7	16533.6
42.5°	15852.1	14058.5	13112.7	13183.5	14340.6	14880.4	16236.5	19374.0	18229.1	17667.5
45°	16314.2	14778.2	14457.9	14785.0	15680.4	15944.8	16922.0	20070.4	19162.7	18620.2
47.5°	16725.8	15677.7	15794.9	16665.8	17204.2	16908.4	17434.5	20671.4	19857.8	19379.4
50°	17204.2	16841.6	17557.2	18789.2	18958.2	17780.6	17900.6	21382.8	20670.0	20285.8
52.5°	17727.5	18068.2	19508.8	20595.1	20540.6	18727.9	18369.5	22180.1	21783.6	21422.4
55°	18321.8	19059.1	21227.5	22285.1	22238.7	19785.5	19146.3	23165.5	23179.2	22852.1
57.5°	19203.6	19912.3	22394.1	23652.1	23729.8	21006.7	20462.9	24269.5	24441.3	24223.2
59°	19835.9	20465.6	22856.2	24223.2	24539.4	21951.2	21425.1	24910.1	24797.0	24598.0
60°	20304.8	20817.3	23085.1	24521.7	25009.6	22591.8	22135.2	25286.3	24839.3	24598.0
62.5°	21464.6	21583.2	23498.1	24859.7	25550.7	24014.6	24133.2	25926.8	24546.2	24152.3
65°	22005.8	22067.1	23492.7	24254.5	25027.3	25122.7	25945.9	25945.9	23830.7	23225.5
67.5°	21779.5	21483.7	22327.3	22248.3	23019.8	24464.4	26627.4	24994.6	22462.3	21680.0
70°	19939.5	18801.5	18426.7	18460.8	19050.9	21279.2	25278.1	22195.1	19872.7	18958.2
72.5°	16590.9	13860.9	12935.5	13991.8	14145.7	16353.7	21542.3	16714.9	14655.5	13798.2
75°	13344.3	9770.8	8266.1	9381.0	9642.6	11967.8	16664.5	10410.0	8560.5	7892.6
77.5°	9586.7	7013.6	5931.4	5853.8	6191.7	7590.1	11824.7	5239.0	4369.5	4077.8
80°	5446.2	4616.2	4970.6	4689.8	4860.2	4745.7	5618.0	2297.8	1882.2	1759.5
82.5°	3287.3	2728.6	2954.8	2460.0	3113.0	2710.8	2164.4	736.0	639.2	607.8
85°	2138.5	1491.0	776.9	520.6	1072.6	1732.3	483.8	200.4	154.0	122.7
87.5°	737.3	380.3	38.2	16.4	114.5	323.0	17.7	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)