

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: STREETWORKS

Report Number: P324513

Luminaire Tested: **GAN-SA9A-750-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324513
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: STREETWORKS
Catalog Number: GAN-SA9A-750-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 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: 30883 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

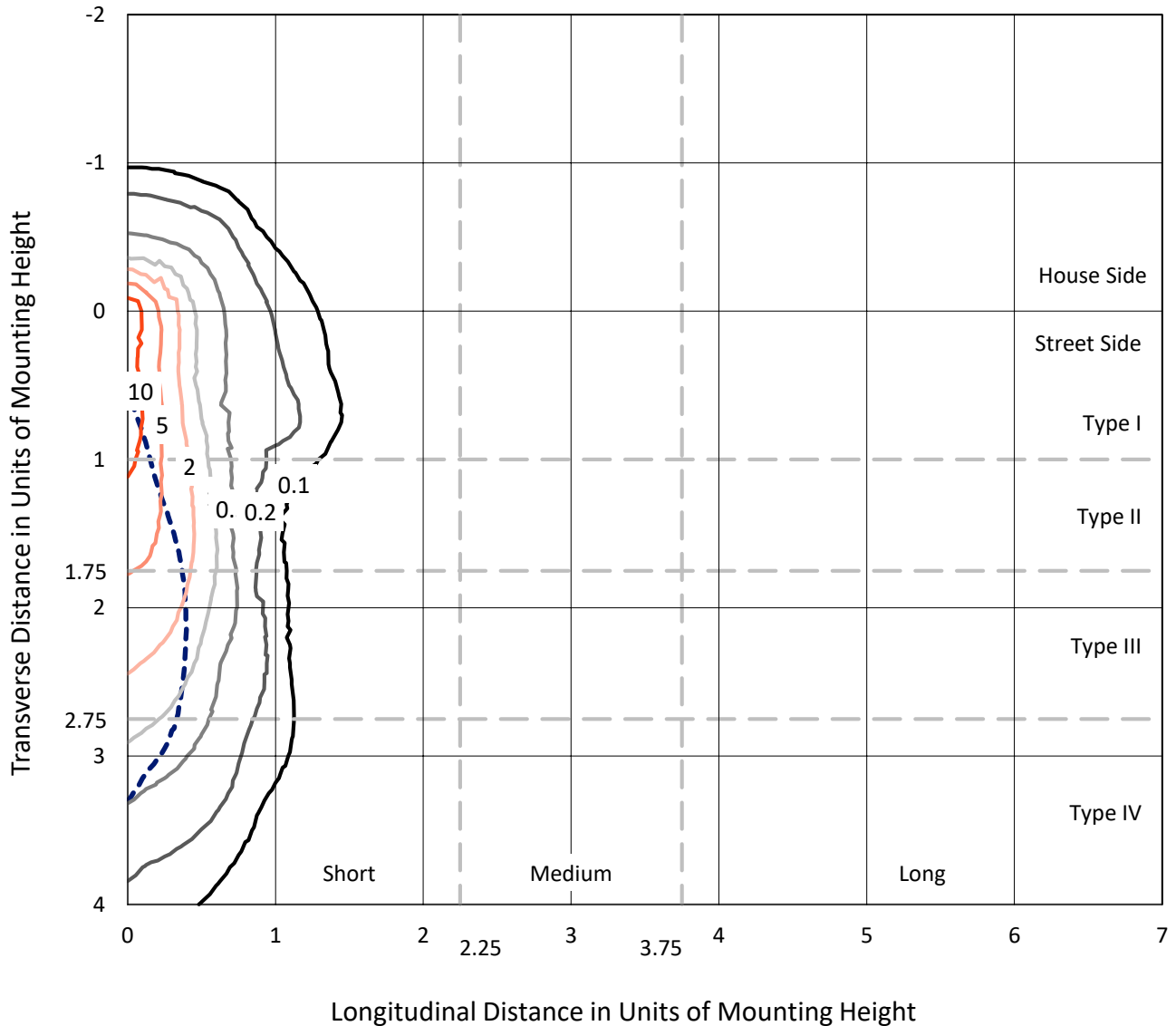
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

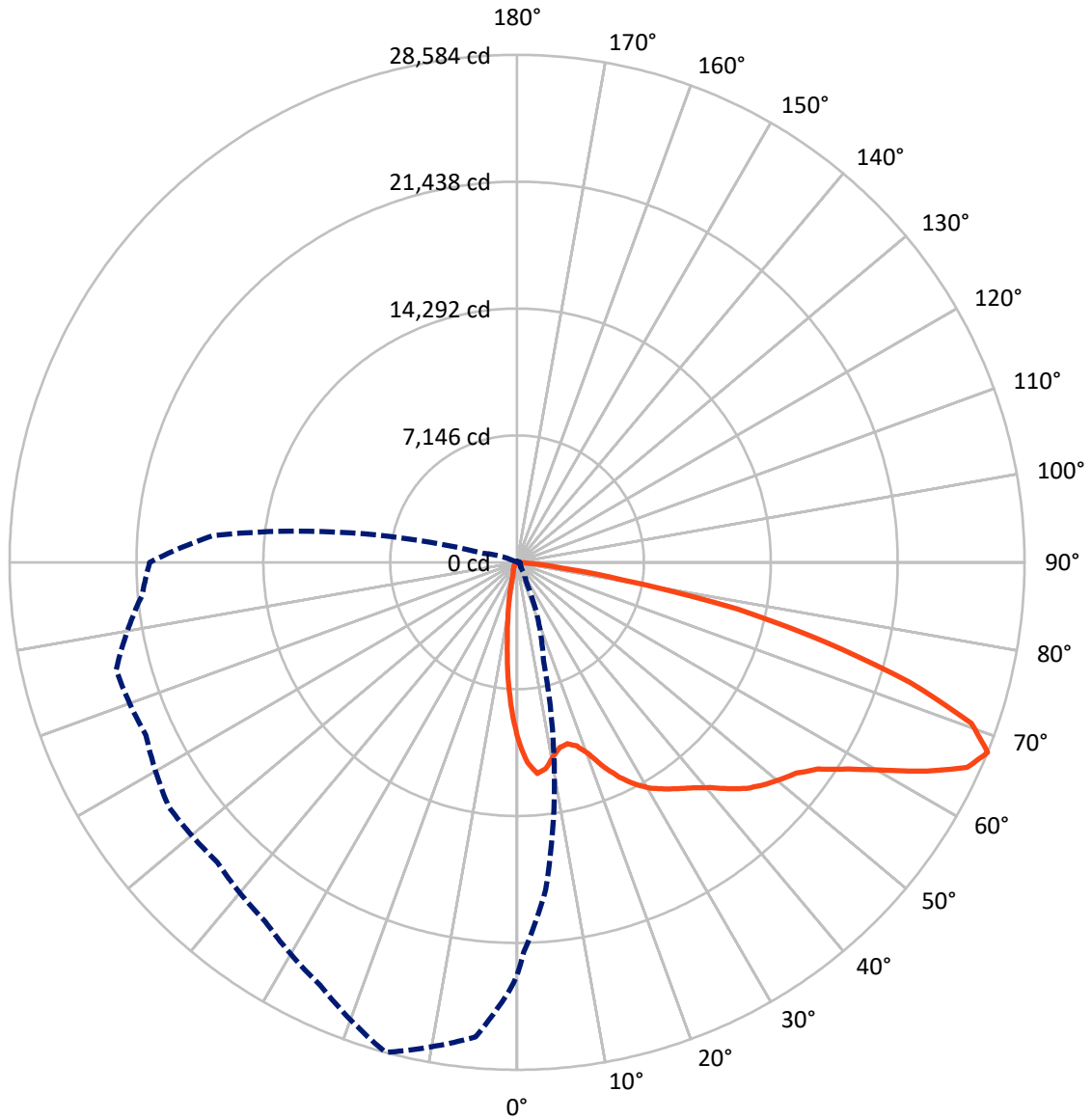
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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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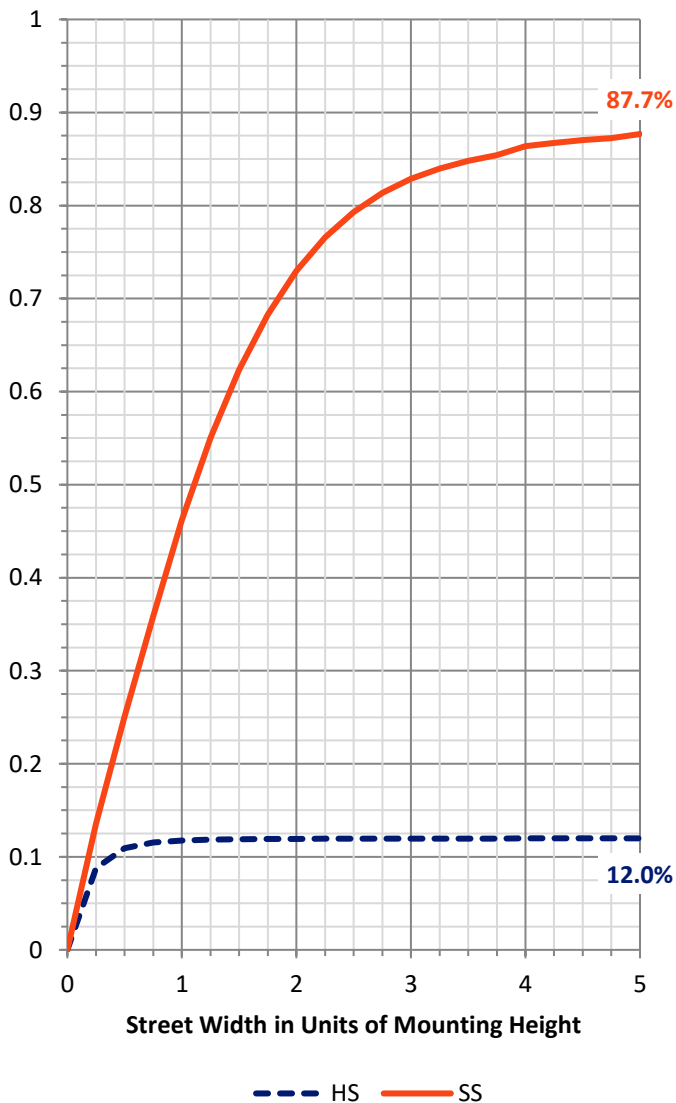
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3737.9	0.0	3737.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	27145.1	0.0	27145.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	30883.0	0.0	30883.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	772.1	2.5
10°-20°	1536.8	5.0
20°-30°	2182.3	7.1
30°-40°	3223.4	10.4
40°-50°	4648.9	15.1
50°-60°	6526.1	21.1
60°-70°	7607.5	24.6
70°-80°	3889.1	12.6
80°-90°	496.7	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°	30883.0	100.0
0°-180°	30883.0	100.0

Coefficient of Utilization



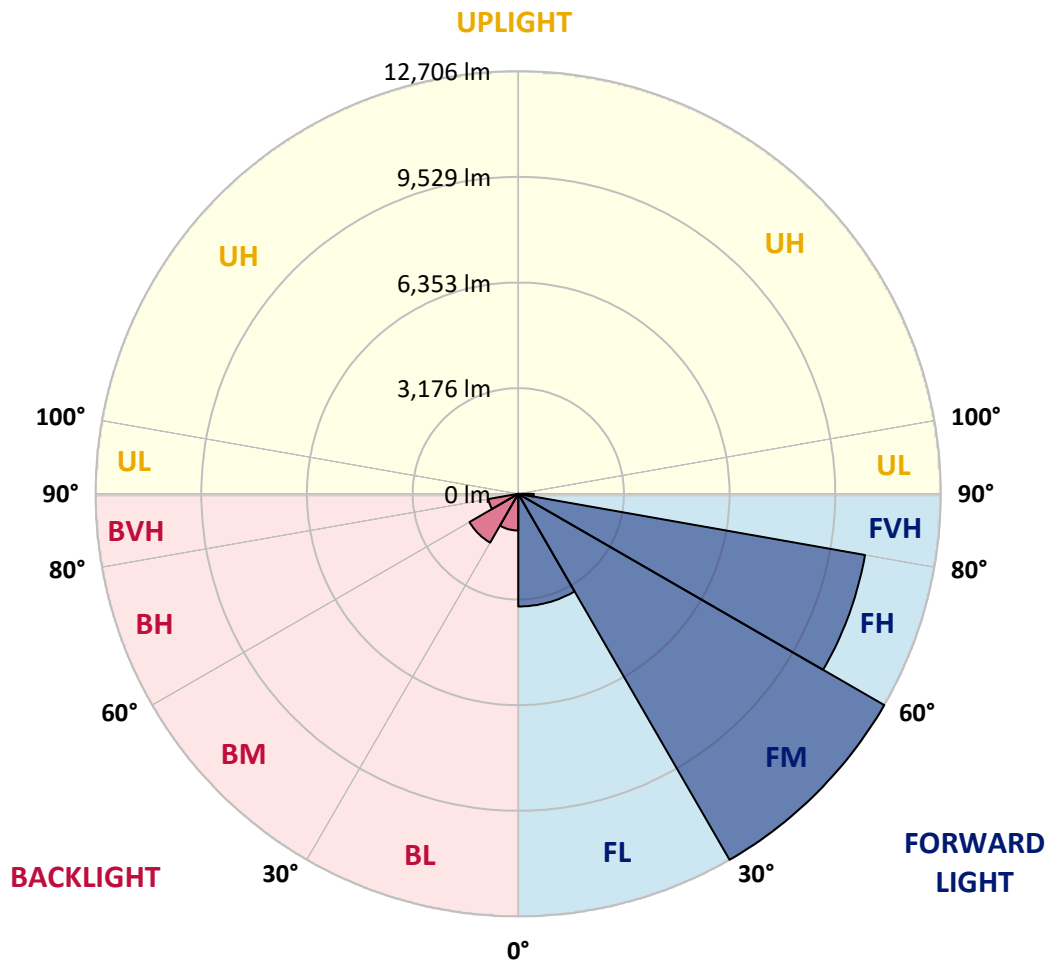
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3387.3	11.0			
FM (30°-60°)	12705.8	41.1			
FH (60°-80°)	10585.6	34.3			G4/12000
FVH (80°-90°)	466.5	1.5			G3/500
BL (0°-30°)	1104.0	3.6	B3/2500		
BM (30°-60°)	1692.6	5.5	B2/2500		
BH (60°-80°)	911.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	30.2	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1
2.5°	11015.5	10930.6	10837.0	10531.2	10247.4	9922.6	9657.7	9473.4	9242.2	8942.3	8866.2
5°	10936.5	10845.7	10551.7	9871.3	9275.9	8696.5	8137.6	7809.9	7403.1	6990.6	6888.1
7.5°	10142.0	10046.9	9622.6	8690.6	7888.9	7052.0	6326.3	5877.2	5417.8	5040.3	4839.8
10°	9315.4	9211.5	8734.5	7603.6	6616.0	5859.6	5327.0	4898.4	4463.8	4060.0	3738.1
12.5°	8746.2	8610.2	8092.2	6810.6	5950.3	5436.8	4939.3	4425.8	3837.6	3404.6	3050.5
15°	8507.8	8352.7	7805.5	6504.8	5714.8	5112.0	4463.8	3833.2	3144.1	2648.2	2323.4
17.5°	8692.1	8490.2	7903.5	6484.3	5419.2	4598.4	3779.1	3038.8	2291.2	1789.3	1558.2
20°	9318.3	9053.5	8308.8	6478.5	5060.8	3988.3	2949.6	2112.7	1509.9	1214.3	1092.9
22.5°	10304.4	9954.7	8891.1	6525.3	4690.6	3347.5	2130.2	1435.3	1133.9	980.3	908.6
25°	11495.4	11090.1	9729.4	6690.6	4365.8	2724.2	1547.9	1133.9	956.8	844.2	784.2
27.5°	12627.8	12298.6	10788.7	6929.1	4114.2	2220.9	1256.8	961.2	817.9	743.2	695.0
30°	13758.7	13344.7	11875.8	7212.9	3811.3	1880.0	1104.6	876.4	733.0	654.0	623.3
32.5°	14581.0	14237.1	12727.3	7417.8	3488.0	1657.7	987.6	801.8	684.7	604.2	558.9
35°	15548.1	15158.9	13457.3	7463.1	3280.2	1517.2	888.1	721.3	594.0	522.3	474.0
37.5°	16592.7	16108.4	14300.1	7363.6	3117.8	1448.4	813.5	684.7	554.5	481.4	430.1
40°	17748.5	17201.3	15109.1	7220.3	2958.3	1425.0	756.4	656.9	523.8	449.2	396.5
42.5°	18965.8	18320.6	15810.0	7069.6	2857.4	1344.6	750.6	629.1	500.4	419.9	367.2
45°	19988.5	19334.5	16529.8	7019.8	2785.7	1256.8	775.4	610.1	484.3	396.5	345.3
47.5°	20803.4	20184.5	17267.2	7131.0	2744.7	1176.3	706.7	635.0	475.5	376.0	326.3
50°	21776.4	21075.5	18306.0	7463.1	2684.7	1095.8	639.4	727.1	475.5	362.8	310.2
52.5°	22996.6	22303.1	19464.7	7978.1	2564.8	984.6	575.0	728.6	479.9	345.3	289.7
55°	24531.3	24028.0	21119.4	8542.9	2373.1	820.8	497.4	626.2	462.3	313.1	270.7
57.5°	26003.2	25592.0	22627.9	8929.1	2117.1	640.8	433.1	504.8	422.8	275.1	241.4
59°	26405.5	25956.4	23180.9	8946.7	1925.4	558.9	400.9	417.0	414.0	257.5	223.8
60°	26405.5	25928.6	23340.4	8853.0	1786.4	513.5	380.4	371.6	431.6	245.8	213.6
62.5°	25927.1	25257.0	22822.5	8219.5	1457.2	437.5	332.1	307.2	387.7	220.9	188.7
65°	24932.2	23956.3	21058.0	7074.0	1299.2	400.9	286.8	251.6	269.2	194.6	165.3
67.5°	23273.1	21950.5	18513.7	5714.8	1236.3	390.6	247.3	213.6	203.4	166.8	144.8
70°	20351.3	18883.9	15425.2	4493.1	1182.2	386.3	207.8	180.0	163.9	140.5	122.9
72.5°	14812.1	13281.8	10951.1	3512.8	1150.0	395.0	166.8	150.7	134.6	109.7	95.1
75°	8472.6	7470.4	6155.1	2320.4	980.3	377.5	128.8	125.8	96.6	79.0	65.8
77.5°	4377.5	4244.4	3688.4	891.0	469.6	165.3	84.9	73.2	57.1	48.3	39.5
80°	1888.8	1868.3	1616.7	257.5	124.4	92.2	48.3	30.7	26.3	20.5	16.1
82.5°	652.5	652.5	575.0	86.3	55.6	45.4	5.9	0.0	0.0	0.0	0.0
85°	131.7	147.8	103.9	0.0	19.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1
2.5°	8774.0	8597.0	8585.3	8474.1	8335.1	8272.2	8235.6	8300.0	8379.0	8387.8	8506.3
5°	6810.6	6624.8	6702.3	6504.8	6544.3	6504.8	6440.4	6452.1	6487.3	6377.5	6513.6
7.5°	4782.8	4642.3	4731.6	4678.9	4749.1	4776.9	4737.4	4678.9	4506.3	4485.8	4604.3
10°	3605.0	3445.5	3350.4	3250.9	3272.9	3318.2	3303.6	3261.2	3151.5	3157.3	3271.4
12.5°	2896.9	2718.4	2529.7	2285.3	2225.3	2259.0	2225.3	2200.5	2095.1	2103.9	2204.8
15°	2197.5	2051.2	1853.7	1657.7	1550.9	1561.1	1467.5	1401.6	1335.8	1256.8	1318.2
17.5°	1483.6	1394.3	1335.8	1277.3	1150.0	1120.7	1002.2	874.9	825.2	788.6	814.9
20°	1050.5	1002.2	978.8	975.9	902.7	866.1	750.6	671.5	646.7	639.4	655.5
22.5°	877.8	842.7	809.1	790.1	753.5	711.1	623.3	583.8	566.2	557.4	569.1
25°	763.7	737.4	702.3	670.1	655.5	610.1	547.2	517.9	506.2	497.4	503.3
27.5°	678.9	655.5	614.5	594.0	582.3	542.8	488.7	465.3	455.0	452.1	450.6
30°	611.6	589.6	551.6	528.2	507.7	472.6	440.4	417.0	406.7	403.8	400.9
32.5°	544.3	526.7	501.8	478.4	456.5	424.3	396.5	377.5	361.4	358.5	357.0
35°	459.4	441.8	428.7	427.2	406.7	376.0	355.5	330.7	317.5	313.1	314.6
37.5°	408.2	384.8	355.5	365.8	359.9	338.0	310.2	285.3	272.1	269.2	269.2
40°	376.0	351.1	317.5	299.9	317.5	313.1	269.2	244.3	231.2	229.7	226.8
42.5°	345.3	320.4	282.4	253.1	261.9	275.1	232.6	209.2	196.1	193.1	188.7
45°	323.3	297.0	254.6	220.9	203.4	231.2	199.0	169.7	162.4	156.5	153.6
47.5°	302.9	278.0	229.7	191.7	162.4	166.8	159.5	139.0	130.2	124.4	122.9
50°	285.3	259.0	207.8	163.9	134.6	122.9	128.8	109.7	102.4	96.6	93.6
52.5°	264.8	239.9	184.3	141.9	112.7	96.6	98.0	86.3	79.0	74.6	73.2
55°	248.7	223.8	165.3	124.4	99.5	79.0	70.2	67.3	62.9	60.0	58.5
57.5°	226.8	203.4	146.3	105.3	84.9	64.4	54.1	54.1	52.7	49.7	48.3
59°	213.6	193.1	134.6	95.1	77.5	55.6	48.3	49.7	48.3	45.4	43.9
60°	203.4	184.3	125.8	87.8	73.2	51.2	43.9	46.8	45.4	42.4	41.0
62.5°	180.0	166.8	108.3	73.2	64.4	41.0	36.6	39.5	39.5	38.0	36.6
65°	158.0	143.4	92.2	61.4	60.0	35.1	29.3	35.1	36.6	33.7	30.7
67.5°	137.5	122.9	80.5	49.7	55.6	27.8	21.9	29.3	39.5	30.7	27.8
70°	117.0	102.4	62.9	39.5	58.5	19.0	17.6	26.3	46.8	33.7	26.3
72.5°	90.7	79.0	43.9	29.3	62.9	13.2	13.2	21.9	52.7	36.6	24.9
75°	62.9	51.2	26.3	17.6	51.2	8.8	8.8	20.5	49.7	33.7	23.4
77.5°	36.6	27.8	8.8	1.5	26.3	0.0	1.5	14.6	35.1	20.5	10.2
80°	13.2	5.9	0.0	0.0	16.1	0.0	0.0	0.0	2.9	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°	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1
2.5°	8537.0	8734.5	8911.6	9179.3	9496.8	9862.6	10177.1	10515.1	10832.6	10964.3	11055.0
5°	6541.4	6785.7	7071.0	7464.6	7988.4	8633.6	9237.8	9921.1	10655.6	11022.8	11368.1
7.5°	4624.8	4873.5	5227.6	5646.0	6279.5	7047.6	7837.7	8781.4	9776.2	10357.1	10929.1
10°	3325.6	3631.3	3962.0	4534.1	5177.8	5906.4	6719.9	7773.3	8882.3	9526.1	10215.2
12.5°	2263.4	2611.6	3112.0	3752.8	4509.2	5223.2	5929.8	6935.0	8222.5	8860.4	9599.2
15°	1357.7	1550.9	2080.5	2822.3	3749.9	4639.4	5413.4	6421.4	7793.8	8575.1	9343.2
17.5°	836.9	926.1	1214.3	1823.0	2797.4	3922.5	4983.2	6247.3	7855.2	8806.2	9628.5
20°	667.2	702.3	794.4	1076.8	1853.7	3132.4	4498.9	6212.2	8357.1	9527.5	10409.8
22.5°	579.4	613.0	674.5	782.7	1166.1	2345.3	4039.5	6244.4	9076.9	10608.7	11638.7
25°	510.6	539.9	598.4	687.6	854.4	1651.8	3547.9	6387.8	10014.7	11950.4	13044.7
27.5°	456.5	481.4	535.5	617.4	733.0	1152.9	2990.5	6561.9	11126.7	13322.7	14402.5
30°	406.7	428.7	477.0	553.0	636.4	886.6	2379.0	6680.4	12240.1	14402.5	15372.5
32.5°	364.3	380.4	424.3	488.7	553.0	706.7	1808.4	6661.4	13066.7	15300.8	16070.4
35°	320.4	336.5	374.5	430.1	481.4	583.8	1422.1	6305.8	13786.5	16232.8	16869.2
37.5°	272.1	292.6	329.2	378.9	414.0	513.5	1150.0	5877.2	14516.6	17297.9	17760.2
40°	231.2	251.6	283.8	338.0	359.9	487.2	883.7	5354.8	15337.4	18488.8	18737.6
42.5°	191.7	210.7	244.3	291.2	339.4	419.9	654.0	4757.9	16126.0	19507.1	19628.6
45°	155.1	174.1	209.2	256.0	362.8	348.2	506.2	4118.5	16762.4	20354.3	20393.8
47.5°	122.9	140.5	177.0	241.4	338.0	278.0	361.4	3616.7	17296.4	21015.6	20911.7
50°	95.1	109.7	147.8	276.5	295.5	229.7	273.6	3449.9	17774.9	21425.2	21156.0
52.5°	74.6	87.8	121.4	259.0	229.7	190.2	229.7	3606.5	18430.3	21764.7	21293.5
55°	60.0	73.2	95.1	147.8	156.5	160.9	196.1	3752.8	19561.3	22560.6	22105.5
57.5°	49.7	62.9	77.5	103.9	118.5	136.1	174.1	3768.9	20894.1	23883.2	23453.0
59°	45.4	57.1	70.2	92.2	103.9	124.4	163.9	3681.1	21363.8	24364.5	24149.5
60°	42.4	54.1	65.8	84.9	96.6	117.0	158.0	3597.7	21384.3	24347.0	24446.5
62.5°	36.6	48.3	58.5	71.7	81.9	99.5	141.9	3289.0	20518.1	23549.6	24268.0
65°	32.2	42.4	52.7	61.4	70.2	89.2	128.8	2725.7	19039.0	22263.6	23046.3
67.5°	29.3	36.6	48.3	54.1	62.9	79.0	114.1	1943.0	17191.1	20690.8	21198.4
70°	26.3	35.1	43.9	49.7	57.1	68.8	98.0	1116.3	14516.6	18387.9	18749.3
72.5°	24.9	33.7	39.5	46.8	51.2	61.4	89.2	525.2	10629.2	14730.2	15673.9
75°	21.9	30.7	36.6	43.9	48.3	55.6	76.1	251.6	7069.6	10659.9	11732.4
77.5°	13.2	24.9	33.7	39.5	42.4	48.3	62.9	144.8	4512.1	7378.3	8690.6
80°	0.0	8.8	24.9	33.7	36.6	41.0	48.3	114.1	2414.1	4215.1	5059.3
82.5°	0.0	0.0	17.6	26.3	24.9	27.8	36.6	71.7	1088.5	2755.0	3104.6
85°	0.0	0.0	5.9	20.5	17.6	13.2	24.9	24.9	238.5	1394.3	1739.6
87.5°	0.0	0.0	0.0	1.5	8.8	5.9	10.2	2.9	1.5	103.9	421.4
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°	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1	10060.1
2.5°	11372.5	11480.7	11663.6	11749.9	11707.5	11527.5	11312.5	11093.0	10964.3	11015.5
5°	12071.8	12629.2	12951.1	13057.9	12879.4	12475.6	11947.4	11251.0	11003.8	10936.5
7.5°	12071.8	13120.8	13785.1	13902.1	13504.2	12712.6	11722.1	10635.1	10273.7	10142.0
10°	11647.5	13075.5	14001.6	14187.4	13631.4	12447.8	11120.8	9880.1	9451.4	9315.4
12.5°	11169.1	12706.8	13682.6	13938.7	13482.2	12184.5	10703.8	9369.5	8864.8	8746.2
15°	10875.0	12253.2	13060.8	13246.6	13053.5	12030.8	10604.3	9215.9	8621.9	8507.8
17.5°	10980.4	11902.1	12193.2	12301.5	12431.7	11976.7	10875.0	9552.4	8800.4	8692.1
20°	11376.8	11531.9	11381.2	11517.3	11868.4	12029.4	11520.2	10365.9	9463.1	9318.3
22.5°	12049.9	11340.3	10917.4	10971.6	11398.8	12203.5	12506.3	11527.5	10485.8	10304.4
25°	12834.1	11495.4	10659.9	10611.7	11050.6	12433.2	13407.6	12791.6	11695.8	11495.4
27.5°	13820.2	11843.6	10607.3	10559.0	10929.1	12648.3	14156.7	14041.1	12970.1	12627.8
30°	14581.0	12185.9	10763.8	10652.6	11050.6	12797.5	14758.0	15101.8	13985.5	13758.7
32.5°	15126.7	12589.7	11018.4	10857.5	11392.9	13055.0	15221.8	16073.3	14924.8	14581.0
35°	15542.2	13028.7	11429.5	11164.7	11864.0	13445.6	15656.3	17107.7	15924.1	15548.1
37.5°	15931.4	13644.6	12071.8	11755.8	12602.9	14074.7	16115.7	18281.1	17041.9	16592.7
40°	16474.2	14342.5	13062.3	12781.4	13845.0	14932.1	16689.3	19504.2	18313.3	17748.5
42.5°	17017.0	15091.6	14076.2	14152.3	15394.4	15973.8	17429.6	20797.6	19568.6	18965.8
45°	17513.0	15864.1	15520.3	15871.4	16832.6	17116.5	18165.5	21545.2	20570.8	19988.5
47.5°	17954.8	16829.7	16955.5	17890.4	18468.4	18150.9	18715.6	22190.4	21317.0	20803.4
50°	18468.4	18079.2	18847.3	20169.9	20351.3	19087.2	19216.0	22954.1	22188.9	21776.4
52.5°	19030.2	19395.9	20942.4	22108.5	22050.0	20104.1	19719.3	23810.0	23384.3	22996.6
55°	19668.1	20459.6	22787.3	23922.7	23872.9	21239.4	20553.2	24867.8	24882.5	24531.3
57.5°	20614.7	21375.5	24039.7	25390.1	25473.5	22550.3	21966.6	26052.9	26237.3	26003.2
59°	21293.5	21969.5	24535.7	26003.2	26342.6	23564.2	22999.5	26740.6	26619.1	26405.5
60°	21796.8	22347.0	24781.5	26323.6	26847.4	24251.9	23761.7	27144.4	26664.5	26405.5
62.5°	23041.9	23169.2	25224.8	26686.4	27428.2	25779.3	25906.6	27832.0	26349.9	25927.1
65°	23622.8	23688.6	25219.0	26036.8	26866.4	26968.8	27852.5	27852.5	25581.8	24932.2
67.5°	23379.9	23062.4	23968.0	23883.2	24711.3	26262.1	28584.0	26831.3	24112.9	23273.1
70°	21404.7	20183.1	19780.7	19817.3	20450.8	22842.9	27135.6	23826.1	21333.0	20351.3
72.5°	17810.0	14879.4	13886.0	15019.9	15185.2	17555.4	23125.3	17943.1	15732.4	14812.1
75°	14324.9	10488.8	8873.5	10070.3	10351.2	12847.2	17889.0	11174.9	9189.6	8472.6
77.5°	10291.2	7529.0	6367.3	6283.9	6646.7	8147.8	12693.6	5624.0	4690.6	4377.5
80°	5846.4	4955.4	5335.8	5034.4	5217.3	5094.4	6030.8	2466.7	2020.5	1888.8
82.5°	3528.9	2929.1	3171.9	2640.8	3341.7	2910.0	2323.4	790.1	686.2	652.5
85°	2295.6	1600.6	834.0	558.9	1151.4	1859.6	519.4	215.1	165.3	131.7
87.5°	791.5	408.2	41.0	17.6	122.9	346.7	19.0	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

(END OF REPORT)