

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: P452029

Luminaire Tested: **GALN-SA3A-722-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-722-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7207 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

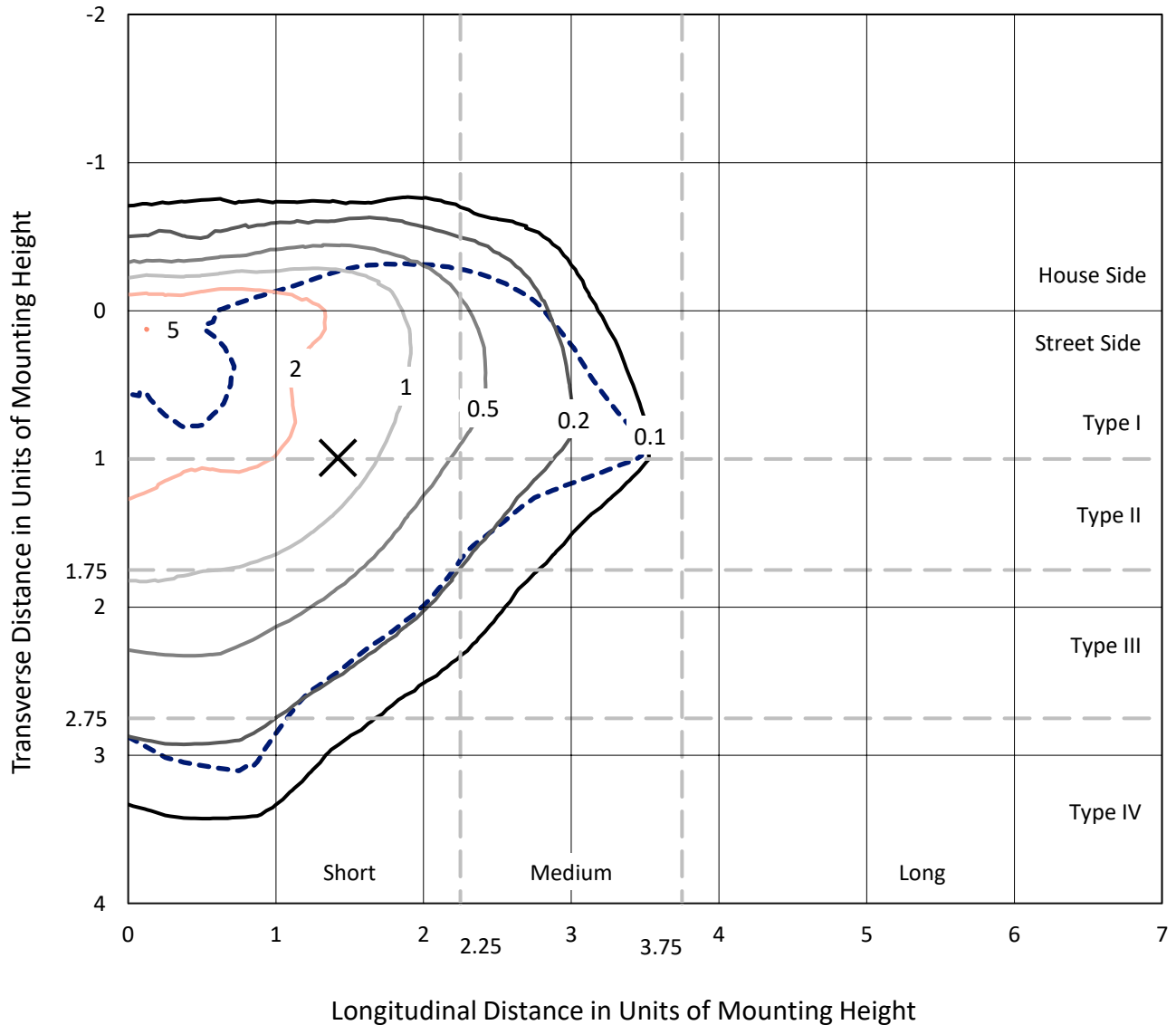
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

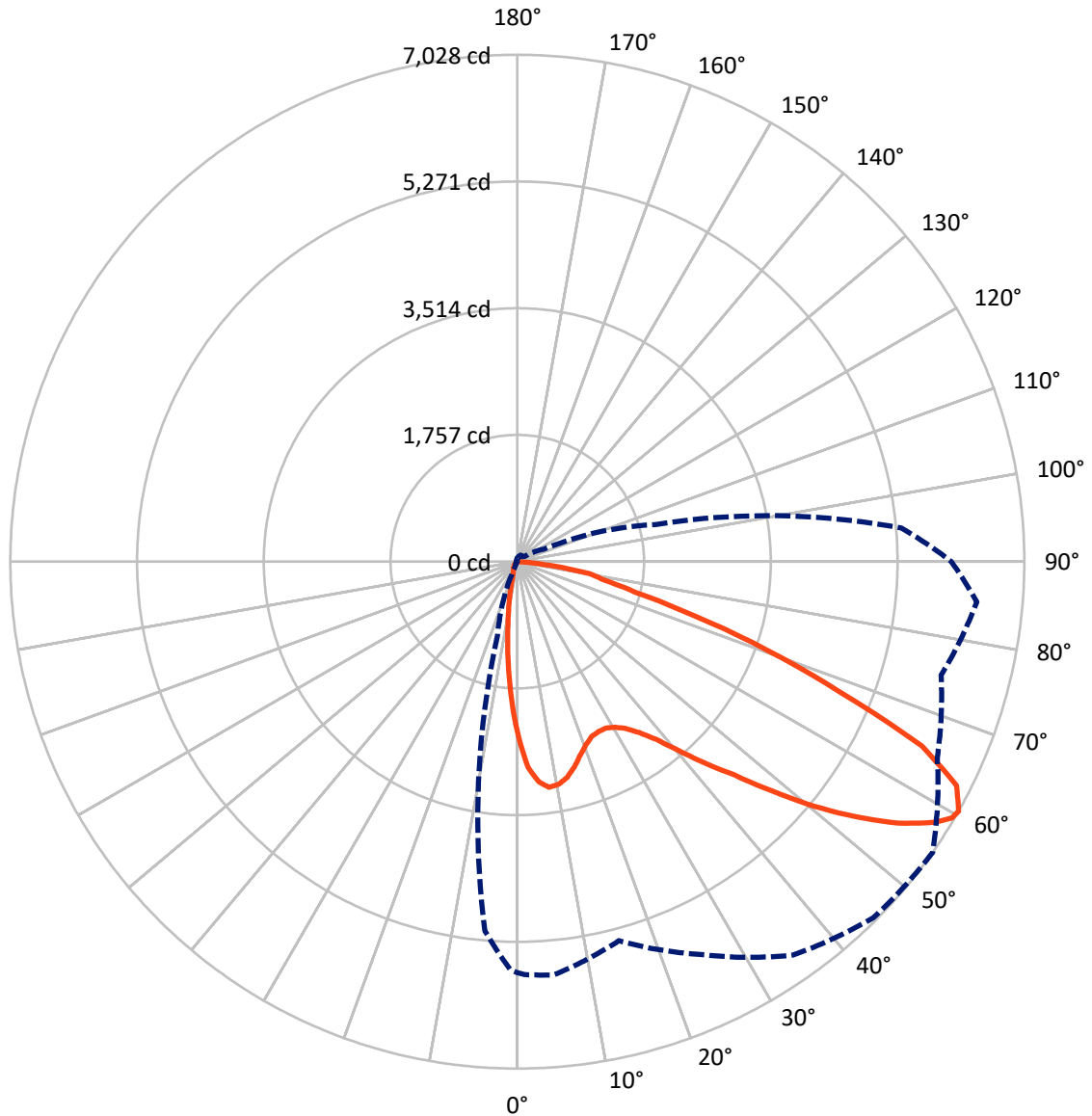
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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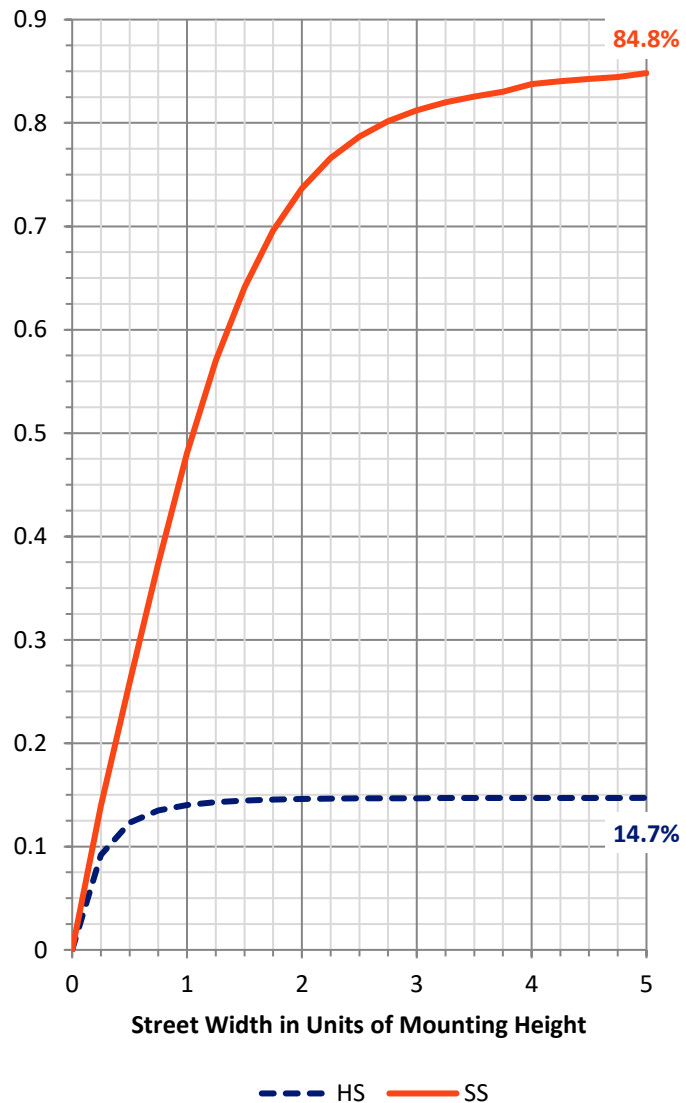
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1069.6	0.0	1069.6
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	6137.4	0.0	6137.4
	% Fixture	85.2	0.0	85.2
Total	Lumens	7207.0	0.0	7207.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.7	2.5
10°-20°	355.9	4.9
20°-30°	526.7	7.3
30°-40°	785.1	10.9
40°-50°	1149.8	16.0
50°-60°	1660.0	23.0
60°-70°	1746.3	24.2
70°-80°	718.3	10.0
80°-90°	84.1	1.2
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°	7207.0	100.0
0°-180°	7207.0	100.0



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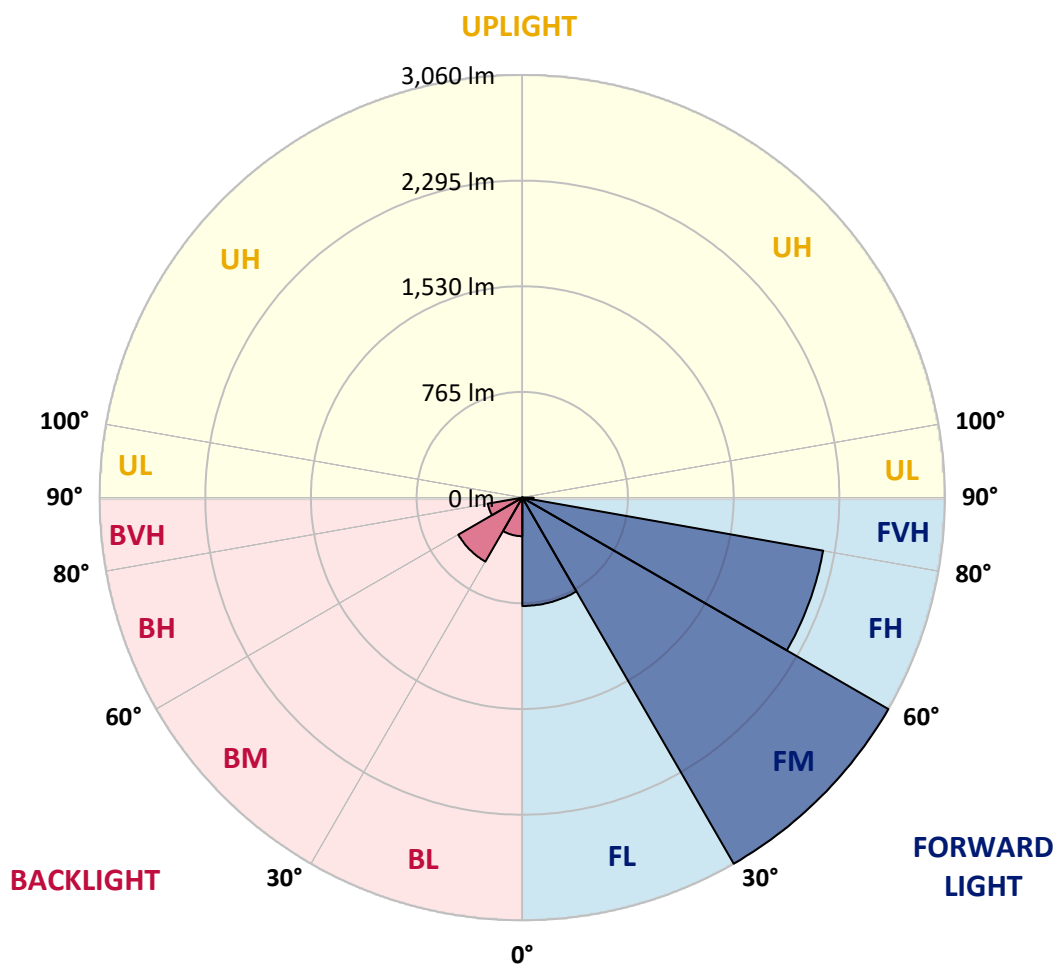
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	784.2	10.9			
FM	(30°-60°)	3060.1	42.5			
FH	(60°-80°)	2211.4	30.7			G2/5000
FVH	(80°-90°)	81.7	1.1			G1/100
BL	(0°-30°)	279.1	3.9	B1/500		
BM	(30°-60°)	534.9	7.4	B1/1000		
BH	(60°-80°)	253.2	3.5	B1/500		G1/500
BVH	(80°-90°)	2.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3
2.5°	2666.0	2661.6	2701.0	2765.3	2830.2	2864.1	2857.4	2854.7	2800.8	2761.5	2678.8
5°	2660.5	2683.2	2753.7	2927.9	3059.9	3123.7	3142.6	3063.2	2958.4	2806.4	2618.9
7.5°	2501.3	2529.6	2644.4	2916.8	3151.4	3290.1	3285.1	3158.1	2941.7	2706.5	2439.2
10°	2303.8	2337.1	2471.9	2802.5	3107.1	3290.1	3300.1	3139.2	2870.2	2568.4	2287.2
12.5°	2164.6	2204.0	2353.2	2696.0	2992.8	3173.1	3184.7	3068.2	2816.4	2515.2	2204.5
15°	2117.4	2154.6	2306.0	2642.2	2871.3	2968.4	2965.6	2953.4	2795.3	2527.9	2208.9
17.5°	2198.4	2228.9	2399.8	2666.6	2757.6	2747.6	2762.0	2820.8	2799.7	2635.0	2348.7
20°	2407.5	2438.6	2622.2	2741.5	2670.5	2607.2	2613.9	2712.1	2840.8	2836.3	2567.3
22.5°	2695.4	2748.1	2914.6	2886.8	2658.8	2520.2	2506.3	2633.9	2910.7	3068.2	2862.4
25°	3059.9	3113.2	3243.0	3118.7	2716.0	2499.6	2486.9	2610.0	2995.6	3294.6	3194.7
27.5°	3366.1	3406.6	3535.9	3344.5	2800.3	2508.5	2487.4	2613.3	3064.3	3487.1	3474.8
30°	3611.3	3641.3	3717.3	3449.9	2873.0	2547.3	2522.9	2662.2	3094.9	3580.8	3701.7
32.5°	3808.8	3859.3	3883.1	3562.5	2977.3	2620.6	2579.0	2755.9	3169.2	3696.7	3939.7
35°	4034.6	4092.8	4062.3	3670.1	3114.8	2734.8	2683.8	2907.9	3281.8	3803.8	4216.0
37.5°	4320.8	4387.9	4268.7	3783.3	3260.2	2906.8	2882.9	3121.5	3452.7	3956.9	4512.2
40°	4617.0	4655.9	4468.9	3920.9	3438.8	3157.0	3179.7	3438.8	3676.2	4140.5	4827.3
42.5°	4848.4	4885.0	4674.7	4036.2	3621.3	3453.8	3548.6	3821.6	3932.5	4328.6	5062.5
45°	5025.3	5056.4	4817.3	4162.2	3867.6	3883.7	4062.9	4216.0	4189.3	4443.4	5243.9
47.5°	5162.9	5189.5	4927.1	4297.5	4236.5	4409.6	4683.6	4748.5	4455.6	4567.7	5408.1
50°	5219.5	5227.2	4961.5	4470.0	4655.3	5079.7	5365.4	5326.0	4760.7	4705.8	5582.8
52.5°	5293.3	5291.6	5059.7	4634.2	5049.2	5678.8	5963.9	5874.6	5105.8	4912.7	5779.2
55°	5486.9	5489.1	5270.0	4867.2	5384.8	6162.5	6467.6	6402.7	5469.7	5262.2	6008.3
57.5°	5722.1	5730.4	5569.0	5139.6	5705.4	6513.1	6843.7	6818.8	5961.7	5651.1	6224.7
59°	5752.6	5769.2	5710.4	5331.5	5895.7	6620.7	6972.4	6996.8	6225.2	5907.4	6341.7
60°	5697.1	5724.8	5751.5	5440.3	6007.2	6659.6	6980.2	7027.9	6423.3	6081.5	6395.0
62.5°	5455.2	5499.1	5632.8	5774.8	6146.4	6538.6	6732.2	6832.1	6668.4	6539.2	6400.0
65°	5138.5	5161.2	5354.3	5834.1	5876.3	5973.9	6033.8	6162.0	6373.9	6715.6	6170.8
67.5°	4619.3	4686.4	4922.7	5489.6	5079.1	4963.8	4948.8	4821.2	5371.5	6295.1	5606.1
70°	3816.0	3846.0	4137.2	4500.5	3833.2	3655.7	3726.7	3679.0	4163.8	5419.2	4512.2
72.5°	2885.7	2953.4	3238.0	3587.5	2608.4	2378.1	2574.0	2556.2	3127.6	4355.2	3099.8
75°	2053.1	2096.9	2459.7	2807.5	1826.7	1547.7	1618.2	1684.2	2183.4	3438.8	1831.7
77.5°	1410.7	1448.4	1720.8	1856.7	1332.5	1276.4	1167.7	1231.5	1430.7	2040.3	996.9
80°	851.0	849.3	1028.5	1061.8	928.1	1077.8	904.2	1015.2	864.8	873.1	386.1
82.5°	552.5	547.0	629.1	685.6	516.5	543.1	364.5	525.3	563.6	243.5	122.0
85°	247.4	258.0	302.3	398.9	226.3	120.4	74.3	161.4	240.2	122.6	0.0
87.5°	25.5	20.0	53.3	97.1	31.1	3.3	11.1	5.5	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°	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3
2.5°	2640.5	2608.4	2512.4	2422.5	2345.4	2251.1	2190.1	2094.1	2035.9	2018.1	2020.9
5°	2534.6	2441.9	2259.4	2113.5	1951.0	1858.4	1717.5	1582.1	1508.9	1481.7	1469.5
7.5°	2312.7	2213.4	1993.2	1764.1	1589.9	1427.3	1322.5	1203.2	1121.7	1054.5	1042.9
10°	2147.9	2017.6	1744.6	1498.3	1360.8	1238.7	1133.9	1014.6	918.6	842.1	821.0
12.5°	2049.2	1903.3	1598.7	1392.4	1262.0	1136.6	1000.2	862.1	763.9	681.2	642.9
15°	2031.4	1862.2	1557.7	1316.4	1155.5	1004.1	822.7	673.4	572.5	494.3	470.4
17.5°	2138.5	1936.0	1551.6	1237.1	1016.3	801.6	613.0	489.3	375.6	331.7	314.5
20°	2329.3	2066.4	1551.0	1145.0	873.1	617.4	430.5	319.0	272.9	251.8	241.9
22.5°	2589.5	2243.9	1580.4	1065.6	724.5	455.4	307.3	254.1	227.4	210.2	206.4
25°	2907.4	2506.8	1652.5	1011.8	610.8	357.2	253.5	217.5	195.3	187.5	184.2
27.5°	3189.7	2758.7	1731.9	956.4	529.2	316.2	235.2	199.1	181.4	175.3	170.3
30°	3433.2	2987.2	1770.2	883.1	463.8	289.6	238.5	213.0	189.7	171.4	163.1
32.5°	3636.3	3162.5	1795.1	816.6	408.3	236.9	188.6	164.8	154.2	147.6	142.0
35°	3890.3	3352.3	1780.1	778.8	380.0	215.8	172.0	142.0	124.3	110.9	105.4
37.5°	4156.6	3542.0	1754.1	747.8	367.2	200.3	163.6	134.8	115.4	101.5	94.3
40°	4432.3	3717.8	1723.6	718.9	355.6	190.3	158.7	128.7	109.3	94.3	86.5
42.5°	4684.7	3889.2	1711.4	700.1	336.7	191.9	154.8	125.9	103.2	87.6	81.0
45°	4888.9	4051.8	1728.0	690.1	316.2	189.2	155.9	122.6	98.2	83.2	76.6
47.5°	5106.9	4281.4	1781.8	680.1	296.2	175.9	164.2	122.0	96.0	80.4	73.2
50°	5360.4	4575.4	1905.0	655.7	271.8	161.4	174.7	121.5	93.2	77.1	69.9
52.5°	5698.2	4909.4	2032.0	613.0	236.3	147.6	167.0	119.8	87.6	73.2	66.0
55°	6001.7	5261.1	2139.6	562.5	191.4	127.6	150.3	112.6	78.2	66.6	59.9
57.5°	6127.0	5459.7	2136.3	492.6	153.1	112.1	123.7	103.2	68.2	58.8	53.3
59°	6081.0	5434.7	2064.7	441.0	139.8	103.7	102.6	102.1	63.8	53.3	48.8
60°	6016.1	5343.7	1987.6	415.5	131.5	98.2	94.3	101.0	59.9	49.9	45.5
62.5°	5767.6	4966.5	1731.9	372.2	120.4	83.2	75.4	85.4	53.3	43.3	39.4
65°	5407.5	4386.8	1466.2	360.0	117.0	68.8	62.7	61.0	45.5	36.6	33.3
67.5°	4705.2	3712.3	1187.7	351.7	118.2	57.7	54.9	46.0	37.7	30.5	28.3
70°	3767.2	2894.6	972.4	342.3	119.3	47.2	46.0	36.6	30.5	25.5	23.3
72.5°	2288.8	1715.8	765.5	297.3	115.9	37.7	41.1	27.7	22.2	18.3	17.2
75°	1415.1	1174.4	474.9	231.3	76.6	27.7	28.8	17.2	15.0	11.6	11.6
77.5°	819.9	741.7	169.7	83.2	33.8	16.6	12.8	8.9	8.3	5.0	5.0
80°	340.1	272.4	58.8	28.3	18.3	7.8	2.8	0.6	0.0	0.0	0.0
82.5°	99.3	88.2	16.1	12.8	5.5	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°	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3
2.5°	1973.7	1955.4	1947.1	1975.4	1949.3	1982.6	1957.1	1968.2	2000.9	2015.3	2052.5
5°	1477.3	1458.4	1449.5	1492.2	1490.0	1511.1	1508.9	1528.3	1544.9	1507.8	1546.0
7.5°	1029.0	1016.3	1037.4	1070.6	1106.1	1094.5	1094.5	1068.4	1077.3	1071.7	1070.1
10°	782.7	738.9	727.8	726.7	740.0	742.8	727.8	691.8	705.1	708.9	732.2
12.5°	615.8	581.9	530.3	507.0	500.9	505.9	456.5	424.9	439.9	431.0	453.8
15°	441.6	413.8	383.3	357.2	350.0	340.1	286.2	248.5	244.1	245.7	249.6
17.5°	315.1	296.2	296.2	268.5	253.5	223.6	196.4	179.7	178.1	179.7	182.5
20°	232.4	222.4	221.3	214.1	197.5	177.5	158.7	155.3	154.2	157.0	158.1
22.5°	200.3	189.7	180.8	180.3	164.8	148.1	139.2	134.8	135.4	136.5	139.2
25°	179.2	168.1	158.7	153.1	142.0	130.4	122.0	119.8	119.8	121.5	122.0
27.5°	164.2	150.3	142.0	134.2	124.3	114.3	107.1	105.4	104.3	105.4	108.2
30°	153.7	139.8	129.3	117.6	109.8	100.4	94.3	92.1	91.5	92.1	94.3
32.5°	131.5	123.2	114.8	104.3	94.9	88.8	82.1	78.2	78.2	79.3	81.5
35°	99.3	94.9	94.3	91.5	83.8	77.1	69.3	65.5	65.5	67.7	68.8
37.5°	87.6	79.3	78.2	77.1	73.8	64.9	57.7	54.4	53.8	55.5	57.7
40°	79.9	70.5	65.5	64.3	64.9	54.9	47.2	43.8	43.8	44.4	46.6
42.5°	73.8	62.7	53.8	52.7	54.9	46.0	38.3	34.9	34.9	34.9	37.7
45°	68.8	56.0	45.5	39.9	43.3	37.7	31.1	27.7	26.6	27.7	28.8
47.5°	65.5	51.0	39.9	32.2	32.2	30.0	25.0	21.1	20.0	20.5	22.2
50°	62.7	46.6	33.8	26.1	23.3	23.9	18.9	16.1	15.0	15.0	16.6
52.5°	58.2	42.2	29.4	22.2	17.8	16.1	13.9	11.6	11.1	11.6	12.8
55°	52.7	38.3	25.5	18.3	13.9	11.1	10.0	8.3	7.8	8.3	10.0
57.5°	46.6	32.2	20.5	14.4	9.4	7.2	6.7	5.5	4.4	5.0	6.1
59°	42.7	28.8	17.8	11.6	7.2	5.0	5.0	3.9	2.8	3.3	5.0
60°	41.1	26.6	15.0	10.0	6.1	3.9	3.9	2.8	1.7	2.2	3.9
62.5°	34.9	22.2	11.6	6.1	2.8	0.6	1.7	0.6	0.0	0.6	1.7
65°	29.4	17.8	7.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.6
67.5°	24.4	13.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	19.4	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	13.3	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	8.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3	2440.3
2.5°	2054.7	2134.1	2182.9	2275.0	2369.3	2441.9	2532.9	2614.5	2648.3	2666.0
5°	1584.9	1695.3	1789.0	1929.4	2059.7	2218.4	2379.2	2569.0	2641.6	2660.5
7.5°	1112.2	1224.9	1323.0	1485.6	1671.4	1883.9	2124.6	2365.4	2471.3	2501.3
10°	803.3	923.6	1043.5	1206.0	1379.6	1609.8	1860.6	2158.5	2280.5	2303.8
12.5°	507.0	636.3	831.0	1031.8	1215.4	1400.7	1663.1	1987.1	2121.9	2164.6
15°	294.0	390.5	537.5	799.4	1032.9	1278.1	1564.3	1922.7	2073.6	2117.4
17.5°	196.9	230.2	331.2	531.4	839.9	1164.9	1539.4	1975.4	2142.4	2198.4
20°	165.9	180.8	216.3	324.0	646.8	1064.0	1546.0	2118.5	2337.6	2407.5
22.5°	145.9	159.8	182.5	233.0	451.6	938.6	1577.7	2323.2	2606.1	2695.4
25°	128.7	142.6	162.5	193.0	303.4	793.8	1647.0	2622.8	2961.7	3059.9
27.5°	114.3	127.0	144.2	170.3	233.5	632.4	1708.6	2914.6	3286.2	3366.1
30°	101.0	111.5	128.1	148.1	194.2	487.6	1739.6	3169.7	3522.6	3611.3
32.5°	87.6	97.6	113.7	129.8	159.8	371.7	1718.0	3357.2	3752.2	3808.8
35°	74.9	85.4	98.7	113.7	138.1	300.1	1609.8	3568.0	3990.2	4034.6
37.5°	64.3	73.2	87.1	98.7	124.8	240.2	1478.9	3757.8	4257.0	4320.8
40°	54.4	63.2	77.1	87.6	114.8	189.2	1360.8	3968.6	4538.3	4617.0
42.5°	44.4	54.9	67.1	84.3	98.7	144.2	1217.6	4139.4	4749.6	4848.4
45°	35.5	47.2	60.5	83.8	86.0	109.8	1079.5	4272.6	4936.6	5025.3
47.5°	28.3	39.9	58.2	78.2	70.5	87.1	1000.7	4411.8	5091.9	5162.9
50°	22.7	33.3	61.0	68.8	58.8	73.8	998.5	4567.1	5172.3	5219.5
52.5°	18.3	27.2	51.6	52.7	49.9	64.9	1058.4	4741.9	5254.4	5293.3
55°	15.5	22.7	33.8	38.8	44.9	58.8	1103.4	5010.9	5450.3	5486.9
57.5°	12.2	19.4	26.1	31.1	39.9	53.8	1109.5	5218.4	5698.2	5722.1
59°	10.5	16.6	23.3	27.7	36.6	50.5	1084.5	5231.1	5714.3	5752.6
60°	8.9	15.0	20.5	26.1	33.8	47.7	1057.3	5138.5	5654.4	5697.1
62.5°	6.7	11.6	15.0	21.1	27.7	41.1	928.6	4815.1	5425.3	5455.2
65°	4.4	8.3	11.1	15.5	21.6	35.5	756.7	4395.7	5071.4	5138.5
67.5°	2.8	6.1	8.9	11.6	17.8	30.0	539.2	3769.4	4576.0	4619.3
70°	1.7	3.9	6.7	9.4	13.9	23.9	320.1	2979.5	3807.1	3816.0
72.5°	1.1	2.8	4.4	6.7	11.1	21.6	155.3	1942.1	2779.8	2885.7
75°	0.6	1.7	2.8	5.0	8.9	17.8	74.3	1297.5	2022.6	2053.1
77.5°	0.0	0.6	1.7	3.3	6.7	13.9	43.3	852.1	1379.1	1410.7
80°	0.0	0.0	1.1	2.8	5.0	8.9	26.1	502.6	835.4	851.0
82.5°	0.0	0.0	0.6	2.2	3.3	6.7	13.3	220.8	547.0	552.5
85°	0.0	0.0	0.6	2.2	2.8	4.4	5.0	30.0	243.0	247.4
87.5°	0.0	0.0	0.6	2.8	2.8	2.8	2.8	1.7	20.5	25.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)