

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: P452087

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452087
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-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 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: 8929 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

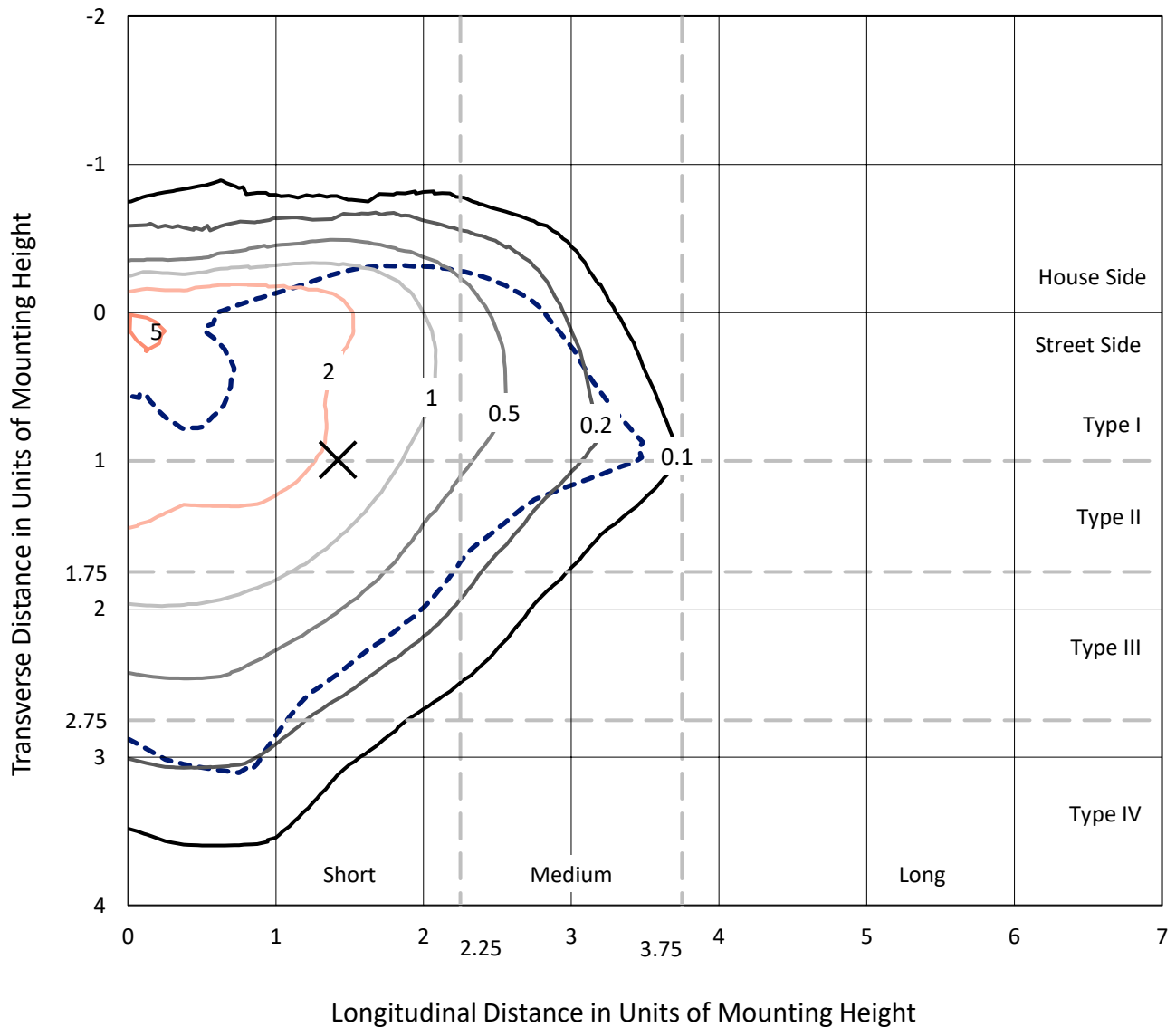
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

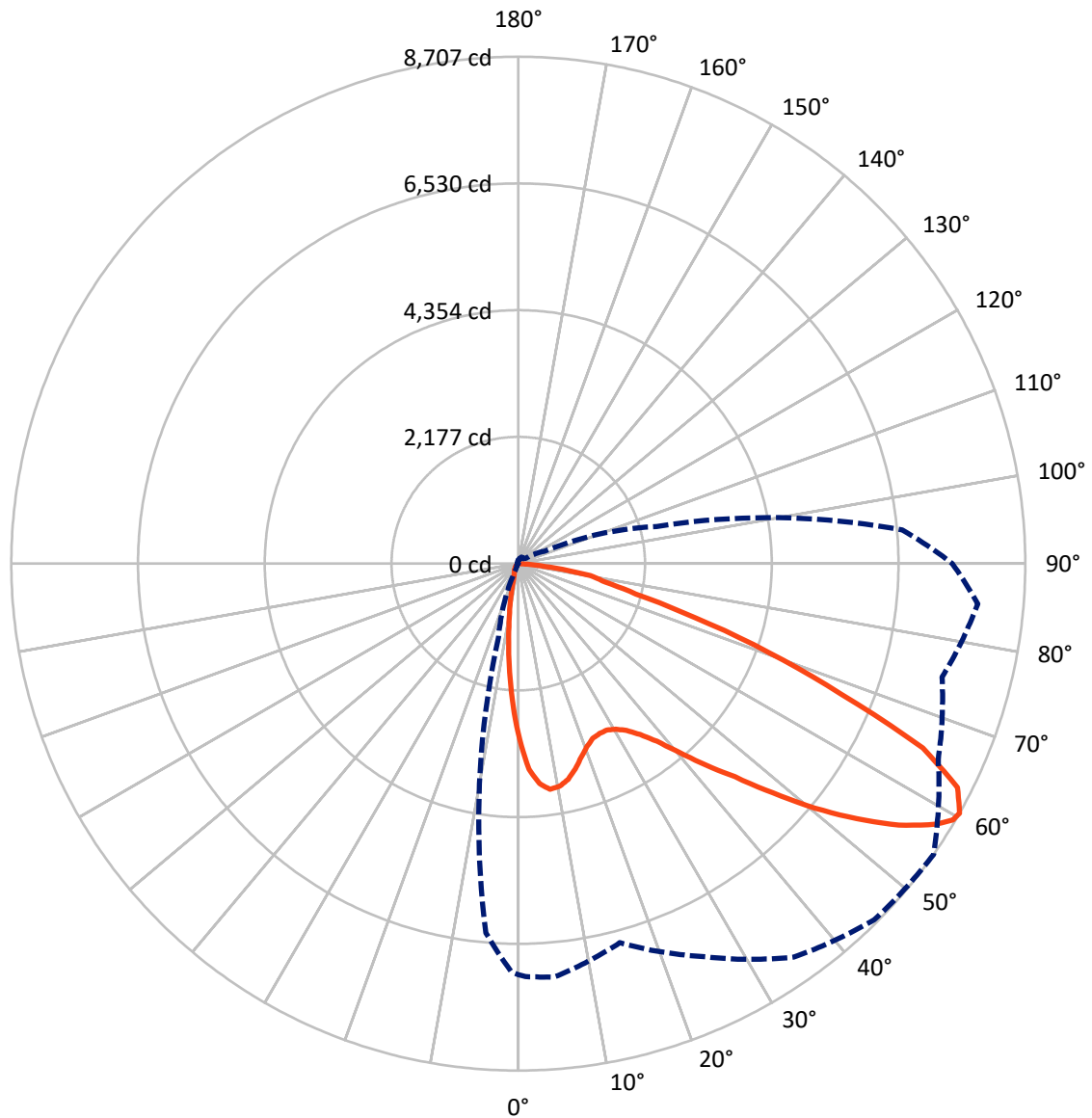
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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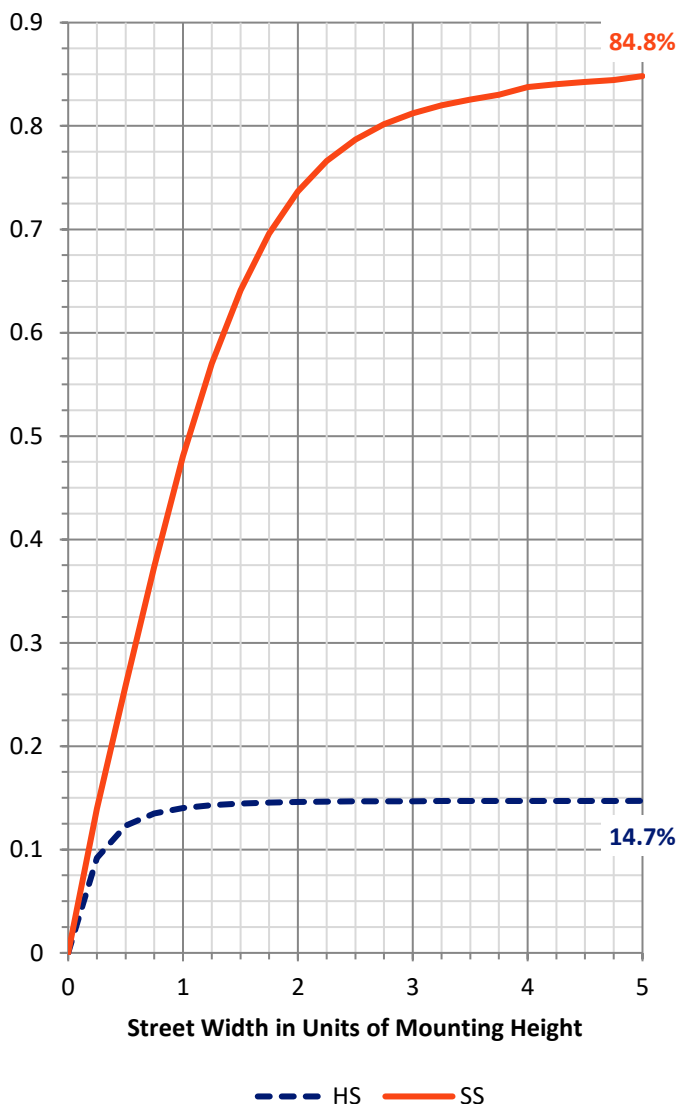
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1325.1	0.0	1325.1
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	7603.9	0.0	7603.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	8929.0	0.0	8929.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.9	2.5
10°-20°	440.9	4.9
20°-30°	652.6	7.3
30°-40°	972.7	10.9
40°-50°	1424.6	16.0
50°-60°	2056.6	23.0
60°-70°	2163.5	24.2
70°-80°	890.0	10.0
80°-90°	104.2	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°	8929.0	100.0
0°-180°	8929.0	100.0

Coefficient of Utilization



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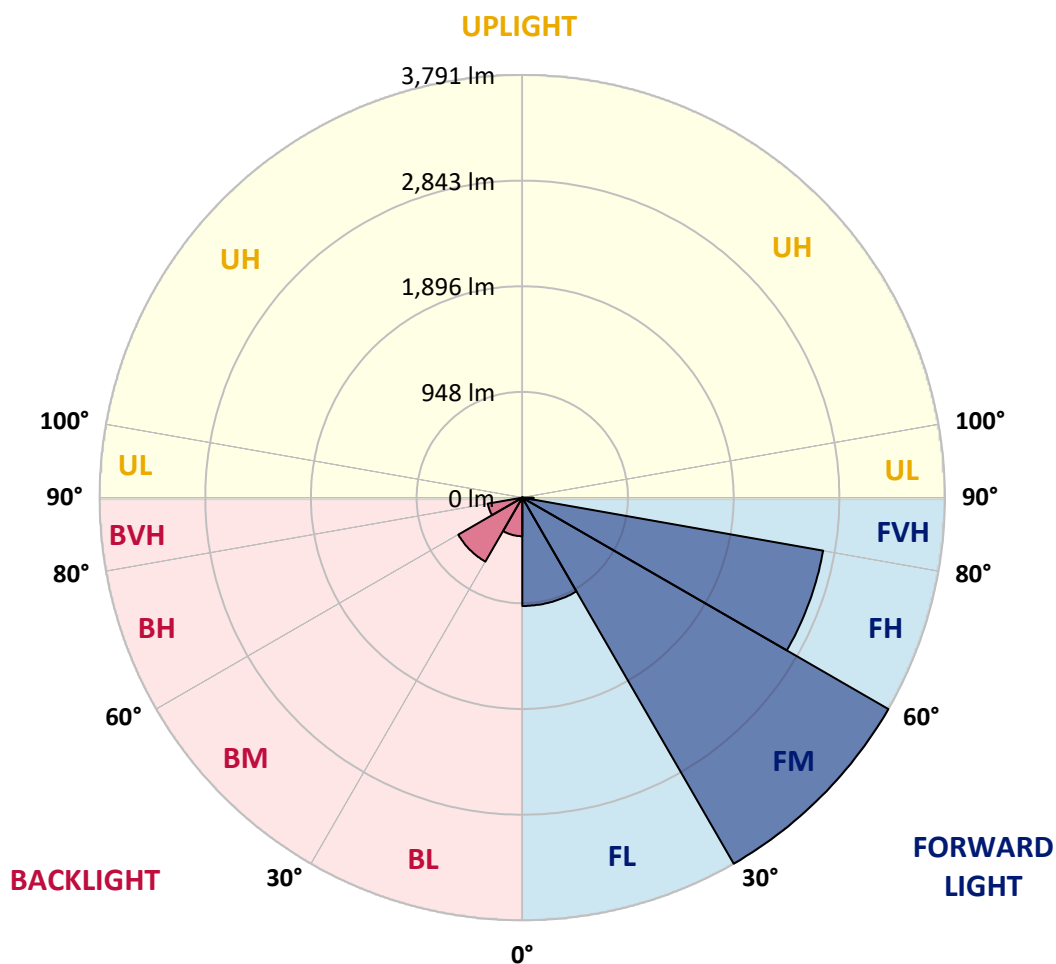
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	971.6	10.9			
FM	(30°-60°)	3791.3	42.5			
FH	(60°-80°)	2739.8	30.7			G2/5000
FVH	(80°-90°)	101.2	1.1			G2/225
BL	(0°-30°)	345.7	3.9	B1/500		
BM	(30°-60°)	662.7	7.4	B1/1000		
BH	(60°-80°)	313.7	3.5	B1/500		G1/500
BVH	(80°-90°)	3.1	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°	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3
2.5°	3303.1	3297.6	3346.4	3426.1	3506.5	3548.4	3540.2	3536.7	3470.1	3421.3	3318.9
5°	3296.2	3324.4	3411.6	3627.5	3791.0	3870.1	3893.4	3795.1	3665.3	3476.9	3244.6
7.5°	3098.9	3134.0	3276.3	3613.7	3904.4	4076.2	4070.1	3912.7	3644.6	3353.2	3022.0
10°	2854.3	2895.5	3062.5	3472.1	3849.4	4076.2	4088.6	3889.3	3556.0	3182.1	2833.6
12.5°	2681.8	2730.6	2915.4	3340.2	3707.9	3931.2	3945.7	3801.3	3489.3	3116.1	2731.2
15°	2623.3	2669.4	2857.0	3273.5	3557.3	3677.6	3674.2	3659.1	3463.2	3131.9	2736.7
17.5°	2723.7	2761.5	2973.2	3303.7	3416.5	3404.1	3422.0	3494.8	3468.7	3264.6	2909.9
20°	2982.8	3021.3	3248.8	3396.5	3308.6	3230.2	3238.5	3360.1	3519.5	3514.1	3180.7
22.5°	3339.5	3404.8	3611.0	3576.6	3294.1	3122.3	3105.1	3263.2	3606.1	3801.3	3546.4
25°	3791.0	3857.0	4017.8	3863.9	3364.9	3096.9	3081.1	3233.6	3711.3	4081.7	3958.0
27.5°	4170.4	4220.6	4380.7	4143.6	3469.4	3107.9	3081.8	3237.8	3796.5	4320.2	4305.1
30°	4474.2	4511.3	4605.4	4274.2	3559.4	3156.0	3125.7	3298.2	3834.3	4436.4	4586.2
32.5°	4718.8	4781.4	4810.9	4413.7	3688.6	3246.7	3195.2	3414.4	3926.4	4580.0	4881.0
35°	4998.6	5070.7	5032.9	4547.0	3859.1	3388.3	3325.0	3602.7	4065.9	4712.7	5223.3
37.5°	5353.2	5436.4	5288.6	4687.2	4039.1	3601.3	3571.8	3867.3	4277.6	4902.4	5590.3
40°	5720.2	5768.3	5536.7	4857.7	4260.4	3911.3	3939.5	4260.4	4554.6	5129.8	5980.7
42.5°	6006.8	6052.2	5791.7	5000.6	4486.5	4279.0	4396.5	4734.7	4872.1	5362.8	6272.1
45°	6226.0	6264.5	5968.3	5156.6	4791.7	4811.6	5033.6	5223.3	5190.3	5505.1	6496.8
47.5°	6396.5	6429.5	6104.4	5324.3	5248.7	5463.2	5802.7	5883.1	5520.2	5659.0	6700.3
50°	6466.6	6476.2	6147.0	5538.1	5767.6	6293.4	6647.4	6598.6	5898.2	5830.2	6916.8
52.5°	6558.0	6555.9	6268.7	5741.5	6255.6	7035.7	7388.9	7278.3	6325.7	6086.5	7160.1
55°	6797.9	6800.6	6529.1	6030.2	6671.4	7635.0	8013.0	7932.6	6776.6	6519.5	7443.9
57.5°	7089.3	7099.6	6899.6	6367.6	7068.7	8069.3	8478.9	8448.0	7386.2	7001.3	7711.9
59°	7127.1	7147.7	7074.8	6605.4	7304.4	8202.7	8638.4	8668.6	7712.6	7318.8	7857.0
60°	7058.3	7092.7	7125.7	6740.1	7442.5	8250.8	8648.0	8707.1	7958.0	7534.6	7922.9
62.5°	6758.7	6813.0	6978.6	7154.6	7615.0	8100.9	8340.8	8464.5	8261.8	8101.6	7929.1
65°	6366.3	6394.4	6633.6	7228.1	7280.3	7401.3	7475.5	7634.3	7896.8	8320.2	7645.3
67.5°	5723.0	5806.1	6098.9	6801.3	6292.7	6149.8	6131.2	5973.1	6654.9	7799.2	6945.6
70°	4727.8	4764.9	5125.7	5575.9	4749.1	4529.2	4617.1	4558.0	5158.7	6714.0	5590.3
72.5°	3575.2	3659.1	4011.6	4444.6	3231.6	2946.4	3189.0	3167.0	3874.9	5395.8	3840.5
75°	2543.6	2597.9	3047.4	3478.3	2263.2	1917.5	2004.8	2086.6	2705.1	4260.4	2269.4
77.5°	1747.7	1794.5	2131.9	2300.3	1650.8	1581.4	1446.7	1525.8	1772.5	2527.8	1235.0
80°	1054.3	1052.2	1274.2	1315.4	1149.8	1335.4	1120.3	1257.7	1071.5	1081.8	478.3
82.5°	684.5	677.7	779.4	849.5	639.9	672.8	451.5	650.9	698.3	301.7	151.2
85°	306.5	319.6	374.6	494.2	280.4	149.1	92.1	200.0	297.6	151.9	0.0
87.5°	31.6	24.7	66.0	120.3	38.5	4.1	13.7	6.9	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°	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3
2.5°	3271.4	3231.6	3112.7	3001.3	2905.8	2789.0	2713.4	2594.5	2522.3	2500.3	2503.8
5°	3140.2	3025.4	2799.3	2618.5	2417.2	2302.4	2127.8	1960.1	1869.4	1835.7	1820.6
7.5°	2865.3	2742.2	2469.4	2185.5	1969.7	1768.4	1638.5	1490.7	1389.7	1306.5	1292.1
10°	2661.1	2499.6	2161.5	1856.3	1685.9	1534.7	1404.8	1257.0	1138.1	1043.3	1017.2
12.5°	2538.8	2358.0	1980.7	1725.1	1563.6	1408.2	1239.2	1068.0	946.4	844.0	796.6
15°	2516.8	2307.2	1929.9	1630.9	1431.6	1244.0	1019.2	834.4	709.3	612.4	582.8
17.5°	2649.5	2398.6	1922.3	1532.6	1259.1	993.1	759.4	606.2	465.3	411.0	389.7
20°	2885.9	2560.1	1921.6	1418.5	1081.8	764.9	533.3	395.2	338.1	312.0	299.7
22.5°	3208.2	2780.0	1958.1	1320.3	897.6	564.3	380.8	314.8	281.8	260.5	255.7
25°	3602.0	3105.8	2047.4	1253.6	756.7	442.6	314.1	269.4	241.9	232.3	228.2
27.5°	3951.8	3417.8	2145.7	1184.9	655.7	391.7	291.4	246.7	224.7	217.2	211.0
30°	4253.6	3701.0	2193.1	1094.1	574.6	358.8	295.5	263.9	235.0	212.4	202.1
32.5°	4505.1	3918.2	2224.0	1011.7	505.8	293.5	233.7	204.1	191.1	182.8	175.9
35°	4819.9	4153.2	2205.5	964.9	470.8	267.4	213.1	175.9	154.0	137.5	130.6
37.5°	5149.8	4388.3	2173.2	926.5	455.0	248.1	202.7	167.0	143.0	125.8	116.8
40°	5491.3	4606.1	2135.4	890.7	440.5	235.7	196.6	159.4	135.4	116.8	107.2
42.5°	5804.1	4818.5	2120.3	867.3	417.2	237.8	191.8	156.0	127.8	108.6	100.3
45°	6057.0	5019.9	2140.9	855.0	391.7	234.4	193.1	151.9	121.6	103.1	94.8
47.5°	6327.1	5304.4	2207.5	842.6	367.0	217.9	203.4	151.2	118.9	99.7	90.7
50°	6641.2	5668.7	2360.1	812.4	336.8	200.0	216.5	150.5	115.5	95.5	86.6
52.5°	7059.7	6082.4	2517.5	759.4	292.8	182.8	206.9	148.5	108.6	90.7	81.8
55°	7435.7	6518.1	2650.8	696.9	237.1	158.1	186.3	139.5	96.9	82.5	74.2
57.5°	7591.0	6764.2	2646.7	610.3	189.7	138.8	153.3	127.8	84.5	72.9	66.0
59°	7533.9	6733.3	2558.0	546.4	173.2	128.5	127.1	126.5	79.0	66.0	60.5
60°	7453.5	6620.5	2462.5	514.8	162.9	121.6	116.8	125.1	74.2	61.9	56.4
62.5°	7145.6	6153.2	2145.7	461.2	149.1	103.1	93.5	105.8	66.0	53.6	48.8
65°	6699.6	5435.0	1816.5	446.0	145.0	85.2	77.7	75.6	56.4	45.4	41.2
67.5°	5829.5	4599.3	1471.5	435.7	146.4	71.5	68.0	57.0	46.7	37.8	35.1
70°	4667.3	3586.2	1204.8	424.1	147.8	58.4	57.0	45.4	37.8	31.6	28.9
72.5°	2835.7	2125.7	948.4	368.4	143.6	46.7	50.9	34.4	27.5	22.7	21.3
75°	1753.2	1455.0	588.3	286.6	94.8	34.4	35.7	21.3	18.6	14.4	14.4
77.5°	1015.8	918.9	210.3	103.1	41.9	20.6	15.8	11.0	10.3	6.2	6.2
80°	421.3	337.5	72.9	35.1	22.7	9.6	3.4	0.7	0.0	0.0	0.0
82.5°	123.0	109.3	19.9	15.8	6.9	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°	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3
2.5°	2445.3	2422.7	2412.3	2447.4	2415.1	2456.3	2424.7	2438.5	2479.0	2496.9	2542.9
5°	1830.2	1806.9	1795.9	1848.8	1846.0	1872.1	1869.4	1893.5	1914.1	1868.0	1915.4
7.5°	1274.9	1259.1	1285.2	1326.4	1370.4	1356.0	1356.0	1323.7	1334.7	1327.8	1325.8
10°	969.7	915.5	901.7	900.3	916.8	920.3	901.7	857.0	873.5	878.3	907.2
12.5°	762.9	721.0	657.0	628.2	620.6	626.8	565.6	526.5	545.0	534.0	562.2
15°	547.1	512.7	474.9	442.6	433.7	421.3	354.6	307.9	302.4	304.5	309.3
17.5°	390.4	367.0	367.0	332.6	314.1	277.0	243.3	222.7	220.6	222.7	226.1
20°	288.0	275.6	274.2	265.3	244.7	219.9	196.6	192.4	191.1	194.5	195.9
22.5°	248.1	235.0	224.1	223.4	204.1	183.5	172.5	167.0	167.7	169.1	172.5
25°	222.0	208.2	196.6	189.7	175.9	161.5	151.2	148.5	148.5	150.5	151.2
27.5°	203.4	186.3	175.9	166.3	154.0	141.6	132.6	130.6	129.2	130.6	134.0
30°	190.4	173.2	160.1	145.7	136.1	124.4	116.8	114.1	113.4	114.1	116.8
32.5°	162.9	152.6	142.3	129.2	117.5	110.0	101.7	96.9	96.9	98.3	101.0
35°	123.0	117.5	116.8	113.4	103.8	95.5	85.9	81.1	81.1	83.8	85.2
37.5°	108.6	98.3	96.9	95.5	91.4	80.4	71.5	67.4	66.7	68.7	71.5
40°	99.0	87.3	81.1	79.7	80.4	68.0	58.4	54.3	54.3	55.0	57.7
42.5°	91.4	77.7	66.7	65.3	68.0	57.0	47.4	43.3	43.3	43.3	46.7
45°	85.2	69.4	56.4	49.5	53.6	46.7	38.5	34.4	33.0	34.4	35.7
47.5°	81.1	63.2	49.5	39.9	39.9	37.1	30.9	26.1	24.7	25.4	27.5
50°	77.7	57.7	41.9	32.3	28.9	29.6	23.4	19.9	18.6	18.6	20.6
52.5°	72.2	52.2	36.4	27.5	22.0	19.9	17.2	14.4	13.7	14.4	15.8
55°	65.3	47.4	31.6	22.7	17.2	13.7	12.4	10.3	9.6	10.3	12.4
57.5°	57.7	39.9	25.4	17.9	11.7	8.9	8.2	6.9	5.5	6.2	7.6
59°	52.9	35.7	22.0	14.4	8.9	6.2	6.2	4.8	3.4	4.1	6.2
60°	50.9	33.0	18.6	12.4	7.6	4.8	4.8	3.4	2.1	2.7	4.8
62.5°	43.3	27.5	14.4	7.6	3.4	0.7	2.1	0.7	0.0	0.7	2.1
65°	36.4	22.0	9.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7
67.5°	30.2	16.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	24.1	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	16.5	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	10.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.1	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°	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3	3023.3
2.5°	2545.7	2644.0	2704.4	2818.5	2935.4	3025.4	3138.1	3239.1	3281.1	3303.1
5°	1963.6	2100.3	2216.5	2390.4	2551.9	2748.4	2947.7	3182.8	3272.8	3296.2
7.5°	1378.0	1517.5	1639.2	1840.5	2070.8	2334.0	2632.3	2930.6	3061.8	3098.9
10°	995.2	1144.3	1292.8	1494.1	1709.3	1994.5	2305.1	2674.2	2825.4	2854.3
12.5°	628.2	788.3	1029.5	1278.3	1505.8	1735.4	2060.5	2461.8	2628.8	2681.8
15°	364.3	483.8	666.0	990.4	1279.7	1583.5	1938.1	2382.1	2569.0	2623.3
17.5°	244.0	285.2	410.3	658.4	1040.5	1443.3	1907.2	2447.4	2654.3	2723.7
20°	205.5	224.1	268.0	401.4	801.4	1318.2	1915.4	2624.7	2896.2	2982.8
22.5°	180.8	197.9	226.1	288.7	559.4	1162.9	1954.6	2878.3	3228.8	3339.5
25°	159.4	176.6	201.4	239.2	375.9	983.5	2040.5	3249.4	3669.4	3791.0
27.5°	141.6	157.4	178.7	211.0	289.3	783.5	2116.8	3611.0	4071.4	4170.4
30°	125.1	138.1	158.8	183.5	240.5	604.1	2155.3	3927.1	4364.2	4474.2
32.5°	108.6	121.0	140.9	160.8	197.9	460.5	2128.5	4159.4	4648.7	4718.8
35°	92.8	105.8	122.3	140.9	171.1	371.8	1994.5	4420.6	4943.6	4998.6
37.5°	79.7	90.7	107.9	122.3	154.6	297.6	1832.3	4655.6	5274.2	5353.2
40°	67.4	78.3	95.5	108.6	142.3	234.4	1685.9	4916.8	5622.6	5720.2
42.5°	55.0	68.0	83.2	104.5	122.3	178.7	1508.6	5128.5	5884.5	6006.8
45°	44.0	58.4	74.9	103.8	106.5	136.1	1337.4	5293.4	6116.1	6226.0
47.5°	35.1	49.5	72.2	96.9	87.3	107.9	1239.8	5465.9	6308.5	6396.5
50°	28.2	41.2	75.6	85.2	72.9	91.4	1237.1	5658.4	6408.2	6466.6
52.5°	22.7	33.7	63.9	65.3	61.9	80.4	1311.3	5874.8	6509.9	6558.0
55°	19.2	28.2	41.9	48.1	55.7	72.9	1367.0	6208.2	6752.5	6797.9
57.5°	15.1	24.1	32.3	38.5	49.5	66.7	1374.6	6465.2	7059.7	7089.3
59°	13.1	20.6	28.9	34.4	45.4	62.5	1343.6	6481.0	7079.6	7127.1
60°	11.0	18.6	25.4	32.3	41.9	59.1	1310.0	6366.3	7005.4	7058.3
62.5°	8.2	14.4	18.6	26.1	34.4	50.9	1150.5	5965.6	6721.6	6758.7
65°	5.5	10.3	13.7	19.2	26.8	44.0	937.4	5446.0	6283.1	6366.3
67.5°	3.4	7.6	11.0	14.4	22.0	37.1	668.0	4670.1	5669.4	5723.0
70°	2.1	4.8	8.2	11.7	17.2	29.6	396.6	3691.4	4716.8	4727.8
72.5°	1.4	3.4	5.5	8.2	13.7	26.8	192.4	2406.2	3443.9	3575.2
75°	0.7	2.1	3.4	6.2	11.0	22.0	92.1	1607.5	2505.8	2543.6
77.5°	0.0	0.7	2.1	4.1	8.2	17.2	53.6	1055.7	1708.6	1747.7
80°	0.0	0.0	1.4	3.4	6.2	11.0	32.3	622.7	1035.0	1054.3
82.5°	0.0	0.0	0.7	2.7	4.1	8.2	16.5	273.5	677.7	684.5
85°	0.0	0.0	0.7	2.7	3.4	5.5	6.2	37.1	301.0	306.5
87.5°	0.0	0.0	0.7	3.4	3.4	3.4	3.4	2.1	25.4	31.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)