

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: P458786

Luminaire Tested: **GALN-SA3B-735-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458786
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-SA3B-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA 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: 11364 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

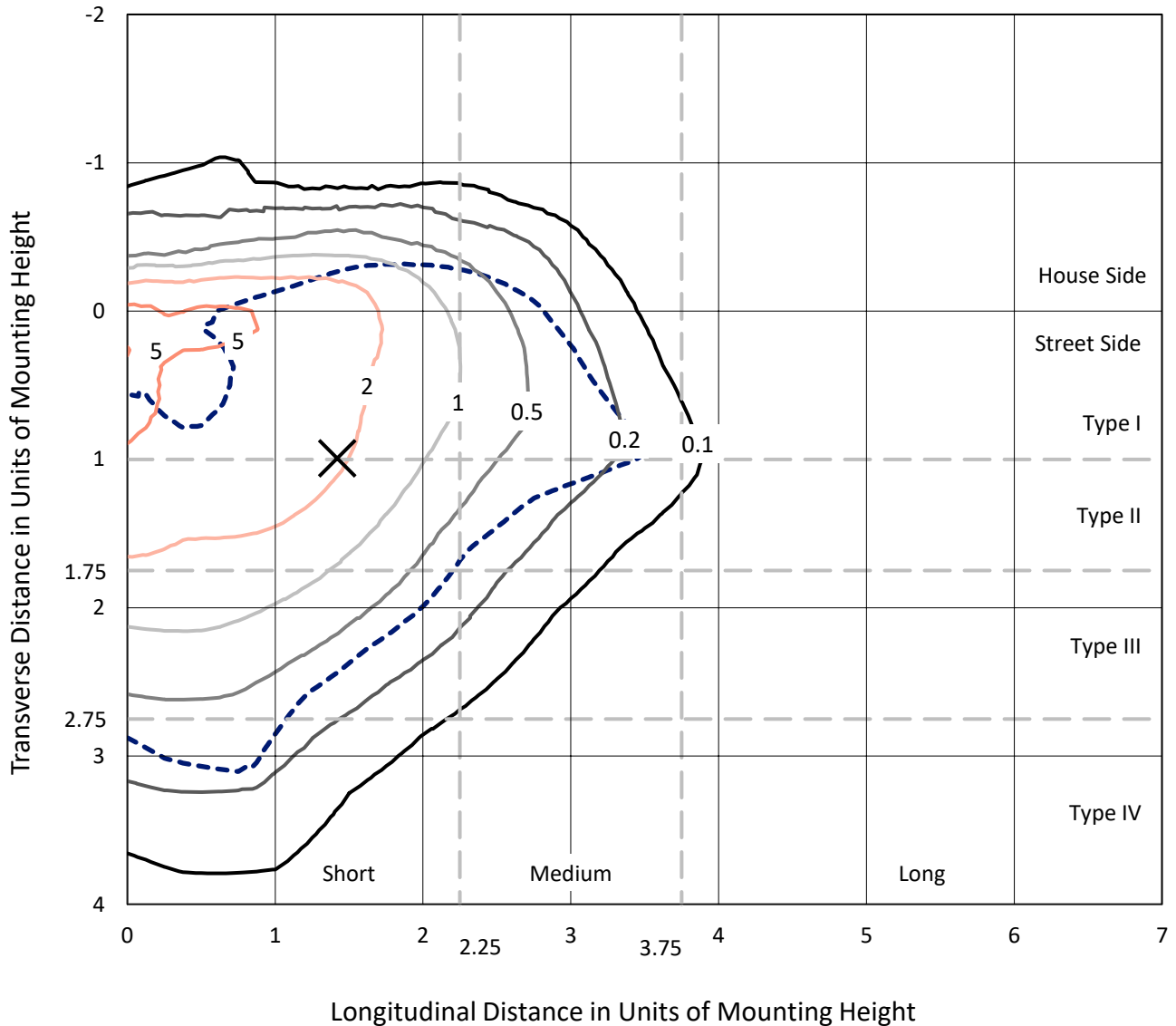
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

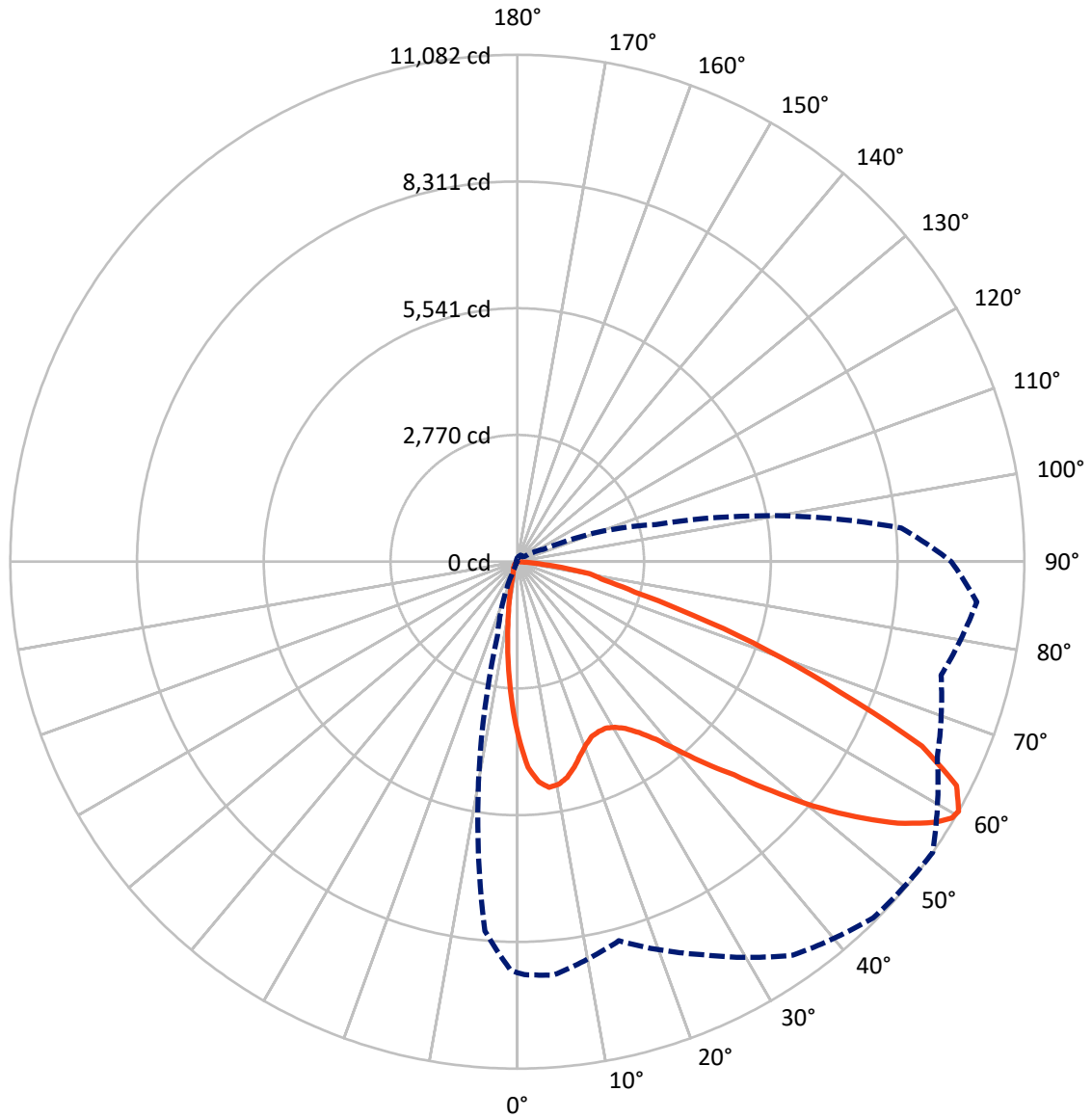
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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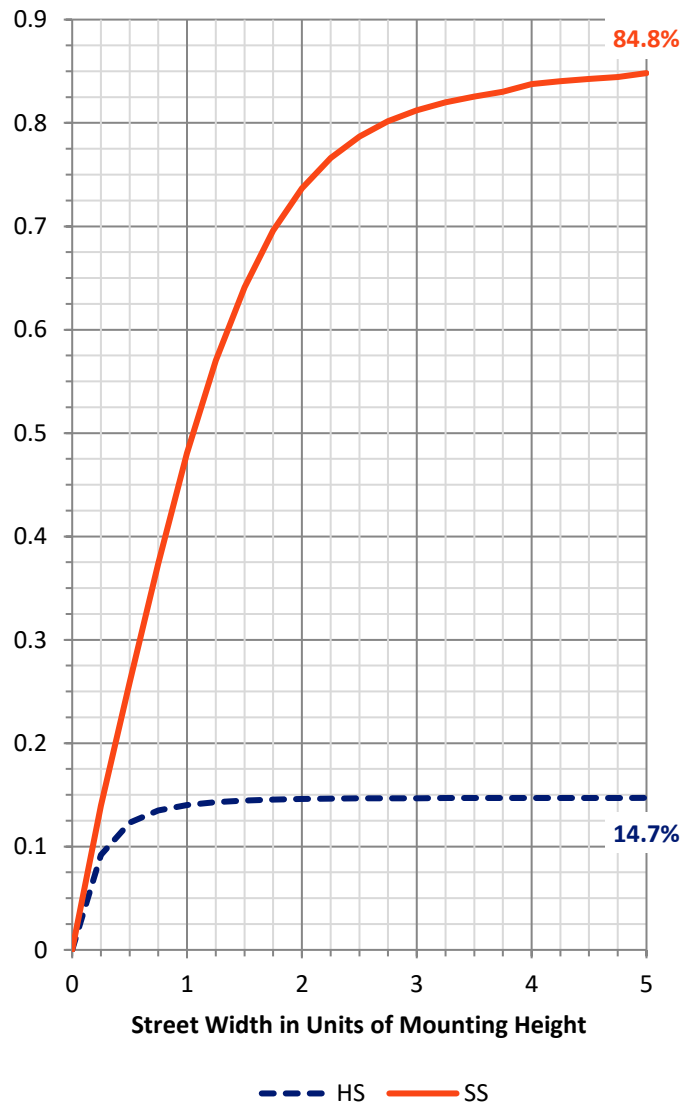
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1686.5	0.0	1686.5
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	9677.5	0.0	9677.5
	% Fixture	85.2	0.0	85.2
Total	Lumens	11364.0	0.0	11364.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.9	2.5
10°-20°	561.1	4.9
20°-30°	830.5	7.3
30°-40°	1238.0	10.9
40°-50°	1813.1	16.0
50°-60°	2617.5	23.0
60°-70°	2753.5	24.2
70°-80°	1132.7	10.0
80°-90°	132.7	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°	11364.0	100.0
0°-180°	11364.0	100.0



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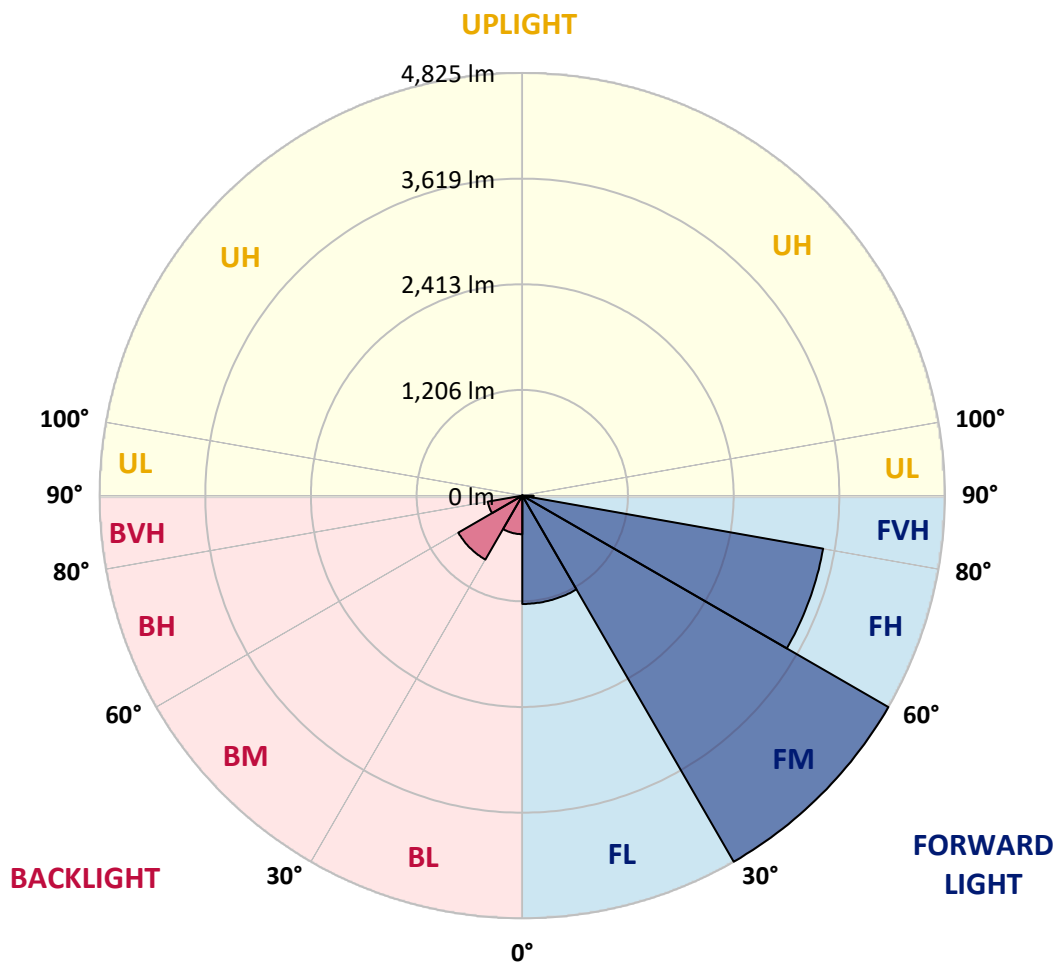
CATALOG NUMBER: GALN-SA3B-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1236.6	10.9			
FM	(30°-60°)	4825.2	42.5			
FH	(60°-80°)	3487.0	30.7			G2/5000
FVH	(80°-90°)	128.8	1.1			G2/225
BL	(0°-30°)	440.0	3.9	B1/500		
BM	(30°-60°)	843.4	7.4	B1/1000		
BH	(60°-80°)	399.2	3.5	B1/500		G1/500
BVH	(80°-90°)	3.9	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°	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8
2.5°	4203.8	4196.8	4258.9	4360.4	4462.7	4516.1	4505.6	4501.2	4416.4	4354.3	4223.9
5°	4195.1	4230.9	4342.0	4616.7	4824.9	4925.5	4955.2	4830.1	4664.8	4425.1	4129.5
7.5°	3944.0	3988.6	4169.7	4599.2	4969.2	5187.9	5180.0	4979.7	4638.6	4267.7	3846.1
10°	3632.6	3685.1	3897.7	4419.0	4899.2	5187.9	5203.6	4949.9	4525.7	4049.9	3606.4
12.5°	3413.1	3475.2	3710.5	4251.1	4719.0	5003.3	5021.7	4838.0	4440.9	3965.9	3476.1
15°	3338.7	3397.3	3636.1	4166.2	4527.5	4680.5	4676.2	4656.9	4407.6	3986.0	3483.1
17.5°	3466.4	3514.6	3784.0	4204.7	4348.1	4332.4	4355.1	4447.9	4414.6	4154.8	3703.5
20°	3796.2	3845.2	4134.7	4322.8	4210.8	4111.1	4121.6	4276.4	4479.4	4472.4	4048.1
22.5°	4250.2	4333.3	4595.7	4552.0	4192.5	3973.8	3951.9	4153.1	4589.6	4838.0	4513.5
25°	4824.9	4908.8	5113.5	4917.6	4282.5	3941.4	3921.3	4115.5	4723.4	5194.9	5037.4
27.5°	5307.7	5371.6	5575.4	5273.6	4415.5	3955.4	3922.2	4120.7	4831.9	5498.4	5479.1
30°	5694.3	5741.6	5861.4	5439.8	4530.1	4016.6	3978.1	4197.7	4880.0	5646.2	5836.9
32.5°	6005.7	6085.3	6122.9	5617.3	4694.5	4132.1	4066.5	4345.5	4997.2	5829.0	6212.1
35°	6361.7	6453.6	6405.5	5787.0	4911.5	4312.3	4231.8	4585.2	5174.7	5997.8	6647.7
37.5°	6813.1	6918.9	6730.8	5965.5	5140.6	4583.4	4545.8	4922.0	5444.2	6239.3	7114.8
40°	7280.2	7341.4	7046.6	6182.4	5422.3	4977.9	5013.8	5422.3	5796.7	6528.8	7611.7
42.5°	7644.9	7702.6	7371.1	6364.3	5710.1	5445.9	5595.5	6025.8	6200.8	6825.3	7982.5
45°	7923.9	7972.9	7595.9	6562.9	6098.4	6123.8	6406.3	6647.7	6605.8	7006.4	8268.6
47.5°	8140.9	8182.8	7769.1	6776.3	6680.1	6953.0	7385.1	7487.5	7025.6	7202.3	8527.5
50°	8230.1	8242.3	7823.3	7048.4	7340.5	8009.7	8460.1	8398.0	7506.7	7420.1	8803.0
52.5°	8346.4	8343.8	7978.2	7307.3	7961.5	8954.3	9403.9	9263.1	8050.8	7746.4	9112.7
55°	8651.7	8655.2	8309.7	7674.6	8490.7	9717.1	10198.2	10095.8	8624.6	8297.4	9473.9
57.5°	9022.6	9035.7	8781.1	8104.1	8996.3	10269.9	10791.2	10751.9	9400.4	8910.6	9815.0
59°	9070.7	9096.9	9004.2	8406.8	9296.3	10439.6	10994.1	11032.6	9815.9	9314.7	9999.6
60°	8983.2	9026.9	9068.9	8578.2	9472.2	10500.8	11006.4	11081.6	10128.2	9589.4	10083.6
62.5°	8601.8	8670.9	8881.7	9105.7	9691.7	10310.1	10615.4	10772.8	10514.8	10311.0	10091.4
65°	8102.4	8138.2	8442.6	9199.3	9265.7	9419.7	9514.1	9716.2	10050.3	10589.2	9730.2
67.5°	7283.7	7389.5	7762.1	8656.1	8008.8	7826.8	7803.2	7602.0	8469.8	9926.1	8839.7
70°	6017.1	6064.3	6523.5	7096.5	6044.2	5764.3	5876.3	5801.0	6565.5	8545.0	7114.8
72.5°	4550.2	4656.9	5105.6	5656.7	4112.9	3749.9	4058.6	4030.6	4931.6	6867.3	4887.8
75°	3237.3	3306.4	3878.4	4426.9	2880.4	2440.4	2551.5	2655.6	3442.8	5422.3	2888.3
77.5°	2224.4	2283.8	2713.3	2927.6	2101.0	2012.7	1841.3	1941.8	2255.9	3217.2	1571.8
80°	1341.8	1339.2	1621.7	1674.2	1463.4	1699.5	1425.8	1600.7	1363.7	1376.8	608.8
82.5°	871.2	862.5	991.9	1081.1	814.3	856.3	574.7	828.3	888.7	384.0	192.4
85°	390.1	406.7	476.7	628.9	356.9	189.8	117.2	254.5	378.7	193.3	0.0
87.5°	40.2	31.5	84.0	153.1	49.0	5.2	17.5	8.7	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8
2.5°	4163.6	4112.9	3961.5	3819.8	3698.2	3549.5	3453.3	3302.0	3210.2	3182.2	3186.5
5°	3996.5	3850.4	3562.7	3332.6	3076.3	2930.3	2708.1	2494.7	2379.2	2336.3	2317.1
7.5°	3646.6	3490.1	3142.8	2781.6	2506.9	2250.6	2085.3	1897.2	1768.6	1662.8	1644.4
10°	3386.9	3181.3	2750.9	2362.6	2145.6	1953.2	1787.9	1599.8	1448.5	1327.8	1294.6
12.5°	3231.2	3001.1	2520.9	2195.5	1989.9	1792.3	1577.1	1359.3	1204.5	1074.1	1013.8
15°	3203.2	2936.4	2456.2	2075.7	1822.0	1583.2	1297.2	1061.9	902.7	779.4	741.7
17.5°	3372.0	3052.7	2446.5	1950.6	1602.5	1263.9	966.5	771.5	592.2	523.1	496.0
20°	3672.9	3258.3	2445.7	1805.4	1376.8	973.5	678.8	503.0	430.4	397.1	381.4
22.5°	4083.1	3538.2	2492.0	1680.3	1142.4	718.1	484.6	400.6	358.6	331.5	325.4
25°	4584.3	3952.8	2605.7	1595.5	963.0	563.3	399.7	342.9	307.9	295.6	290.4
27.5°	5029.5	4349.9	2730.8	1508.0	834.5	498.6	370.9	314.0	286.0	276.4	268.5
30°	5413.5	4710.3	2791.2	1392.5	731.3	456.6	376.1	335.9	299.1	270.3	257.2
32.5°	5733.7	4986.7	2830.5	1287.6	643.8	373.5	297.4	259.8	243.2	232.7	223.9
35°	6134.3	5285.8	2806.9	1228.1	599.2	340.3	271.2	223.9	195.9	174.9	166.2
37.5°	6554.2	5585.0	2765.8	1179.1	579.1	315.8	258.0	212.6	181.9	160.1	148.7
40°	6988.9	5862.3	2717.7	1133.6	560.7	300.0	250.2	202.9	172.3	148.7	136.5
42.5°	7386.9	6132.5	2698.5	1103.9	530.9	302.6	244.0	198.6	162.7	138.2	127.7
45°	7708.8	6388.8	2724.7	1088.1	498.6	298.3	245.8	193.3	154.8	131.2	120.7
47.5°	8052.5	6751.0	2809.5	1072.4	467.1	277.3	258.9	192.4	151.3	126.8	115.5
50°	8452.3	7214.6	3003.7	1033.9	428.6	254.5	275.5	191.6	147.0	121.6	110.2
52.5°	8985.0	7741.1	3204.0	966.5	372.6	232.7	263.3	188.9	138.2	115.5	104.1
55°	9463.4	8295.7	3373.7	886.9	301.8	201.2	237.0	177.6	123.3	105.0	94.5
57.5°	9661.1	8608.8	3368.5	776.7	241.4	176.7	195.1	162.7	107.6	92.7	84.0
59°	9588.5	8569.5	3255.6	695.4	220.4	163.6	161.8	160.9	100.6	84.0	77.0
60°	9486.2	8426.0	3134.1	655.2	207.3	154.8	148.7	159.2	94.5	78.7	71.7
62.5°	9094.3	7831.2	2730.8	586.9	189.8	131.2	119.0	134.7	84.0	68.2	62.1
65°	8526.6	6917.2	2311.8	567.7	184.6	108.5	98.8	96.2	71.7	57.7	52.5
67.5°	7419.2	5853.5	1872.7	554.6	186.3	91.0	86.6	72.6	59.5	48.1	44.6
70°	5940.1	4564.2	1533.4	539.7	188.1	74.3	72.6	57.7	48.1	40.2	36.7
72.5°	3609.0	2705.5	1207.1	468.8	182.8	59.5	64.7	43.7	35.0	28.9	27.1
75°	2231.4	1851.7	748.7	364.8	120.7	43.7	45.5	27.1	23.6	18.4	18.4
77.5°	1292.8	1169.5	267.7	131.2	53.4	26.2	20.1	14.0	13.1	7.9	7.9
80°	536.2	429.5	92.7	44.6	28.9	12.2	4.4	0.9	0.0	0.0	0.0
82.5°	156.6	139.1	25.4	20.1	8.7	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°	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8
2.5°	3112.2	3083.3	3070.2	3114.8	3073.7	3126.2	3086.0	3103.4	3155.1	3177.8	3236.4
5°	2329.3	2299.6	2285.6	2353.0	2349.5	2382.7	2379.2	2409.8	2436.0	2377.4	2437.8
7.5°	1622.6	1602.5	1635.7	1688.2	1744.2	1725.8	1725.8	1684.7	1698.7	1689.9	1687.3
10°	1234.2	1165.1	1147.6	1145.9	1166.9	1171.2	1147.6	1090.8	1111.7	1117.9	1154.6
12.5°	970.9	917.6	836.2	799.5	789.9	797.7	719.9	670.0	693.6	679.6	715.5
15°	696.3	652.5	604.4	563.3	551.9	536.2	451.3	391.9	384.9	387.5	393.6
17.5°	496.8	467.1	467.1	423.4	399.7	352.5	309.6	283.4	280.8	283.4	287.8
20°	366.5	350.8	349.0	337.6	311.4	279.9	250.2	244.9	243.2	247.5	249.3
22.5°	315.8	299.1	285.2	284.3	259.8	233.5	219.6	212.6	213.4	215.2	219.6
25°	282.5	265.0	250.2	241.4	223.9	205.6	192.4	188.9	188.9	191.6	192.4
27.5°	258.9	237.0	223.9	211.7	195.9	180.2	168.8	166.2	164.4	166.2	170.6
30°	242.3	220.4	203.8	185.4	173.2	158.3	148.7	145.2	144.3	145.2	148.7
32.5°	207.3	194.2	181.1	164.4	149.6	140.0	129.5	123.3	123.3	125.1	128.6
35°	156.6	149.6	148.7	144.3	132.1	121.6	109.3	103.2	103.2	106.7	108.5
37.5°	138.2	125.1	123.3	121.6	116.3	102.3	91.0	85.7	84.8	87.5	91.0
40°	126.0	111.1	103.2	101.5	102.3	86.6	74.3	69.1	69.1	70.0	73.5
42.5°	116.3	98.8	84.8	83.1	86.6	72.6	60.4	55.1	55.1	55.1	59.5
45°	108.5	88.3	71.7	63.0	68.2	59.5	49.0	43.7	42.0	43.7	45.5
47.5°	103.2	80.5	63.0	50.7	50.7	47.2	39.4	33.2	31.5	32.4	35.0
50°	98.8	73.5	53.4	41.1	36.7	37.6	29.7	25.4	23.6	23.6	26.2
52.5°	91.8	66.5	46.4	35.0	28.0	25.4	21.9	18.4	17.5	18.4	20.1
55°	83.1	60.4	40.2	28.9	21.9	17.5	15.7	13.1	12.2	13.1	15.7
57.5°	73.5	50.7	32.4	22.7	14.9	11.4	10.5	8.7	7.0	7.9	9.6
59°	67.4	45.5	28.0	18.4	11.4	7.9	7.9	6.1	4.4	5.2	7.9
60°	64.7	42.0	23.6	15.7	9.6	6.1	6.1	4.4	2.6	3.5	6.1
62.5°	55.1	35.0	18.4	9.6	4.4	0.9	2.6	0.9	0.0	0.9	2.6
65°	46.4	28.0	12.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.9
67.5°	38.5	21.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	30.6	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	21.0	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	13.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.2	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°	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8	3847.8
2.5°	3239.9	3365.0	3442.0	3587.2	3735.9	3850.4	3993.9	4122.5	4175.8	4203.8
5°	2499.0	2673.1	2820.9	3042.2	3247.8	3497.9	3751.6	4050.8	4165.3	4195.1
7.5°	1753.8	1931.3	2086.2	2342.5	2635.5	2970.5	3350.1	3729.7	3896.8	3944.0
10°	1266.6	1456.4	1645.3	1901.6	2175.4	2538.4	2933.8	3403.5	3595.9	3632.6
12.5°	799.5	1003.3	1310.3	1626.9	1916.5	2208.6	2622.4	3133.2	3345.7	3413.1
15°	463.6	615.8	847.6	1260.4	1628.7	2015.3	2466.7	3031.7	3269.6	3338.7
17.5°	310.5	363.0	522.2	838.0	1324.3	1836.9	2427.3	3114.8	3378.1	3466.4
20°	261.5	285.2	341.1	510.8	1019.9	1677.7	2437.8	3340.5	3686.0	3796.2
22.5°	230.0	251.9	287.8	367.4	712.0	1480.0	2487.7	3663.3	4109.4	4250.2
25°	202.9	224.8	256.3	304.4	478.5	1251.7	2597.0	4135.6	4670.0	4824.9
27.5°	180.2	200.3	227.4	268.5	368.3	997.2	2694.1	4595.7	5181.7	5307.7
30°	159.2	175.8	202.1	233.5	306.1	768.9	2743.1	4998.1	5554.4	5694.3
32.5°	138.2	153.9	179.3	204.7	251.9	586.1	2709.0	5293.7	5916.5	6005.7
35°	118.1	134.7	155.7	179.3	217.8	473.2	2538.4	5626.1	6291.7	6361.7
37.5°	101.5	115.5	137.3	155.7	196.8	378.7	2332.0	5925.2	6712.5	6813.1
40°	85.7	99.7	121.6	138.2	181.1	298.3	2145.6	6257.6	7155.9	7280.2
42.5°	70.0	86.6	105.8	133.0	155.7	227.4	1920.0	6527.0	7489.2	7644.9
45°	56.0	74.3	95.3	132.1	135.6	173.2	1702.2	6737.0	7784.0	7923.9
47.5°	44.6	63.0	91.8	123.3	111.1	137.3	1578.0	6956.5	8028.9	8140.9
50°	35.9	52.5	96.2	108.5	92.7	116.3	1574.5	7201.4	8155.7	8230.1
52.5°	28.9	42.9	81.3	83.1	78.7	102.3	1668.9	7477.0	8285.2	8346.4
55°	24.5	35.9	53.4	61.2	70.9	92.7	1739.8	7901.2	8594.0	8651.7
57.5°	19.2	30.6	41.1	49.0	63.0	84.8	1749.4	8228.3	8985.0	9022.6
59°	16.6	26.2	36.7	43.7	57.7	79.6	1710.0	8248.5	9010.3	9070.7
60°	14.0	23.6	32.4	41.1	53.4	75.2	1667.2	8102.4	8915.8	8983.2
62.5°	10.5	18.4	23.6	33.2	43.7	64.7	1464.3	7592.4	8554.6	8601.8
65°	7.0	13.1	17.5	24.5	34.1	56.0	1193.1	6931.1	7996.5	8102.4
67.5°	4.4	9.6	14.0	18.4	28.0	47.2	850.2	5943.6	7215.4	7283.7
70°	2.6	6.1	10.5	14.9	21.9	37.6	504.7	4698.0	6003.1	6017.1
72.5°	1.7	4.4	7.0	10.5	17.5	34.1	244.9	3062.3	4383.1	4550.2
75°	0.9	2.6	4.4	7.9	14.0	28.0	117.2	2045.9	3189.2	3237.3
77.5°	0.0	0.9	2.6	5.2	10.5	21.9	68.2	1343.5	2174.5	2224.4
80°	0.0	0.0	1.7	4.4	7.9	14.0	41.1	792.5	1317.3	1341.8
82.5°	0.0	0.0	0.9	3.5	5.2	10.5	21.0	348.1	862.5	871.2
85°	0.0	0.0	0.9	3.5	4.4	7.0	7.9	47.2	383.1	390.1
87.5°	0.0	0.0	0.9	4.4	4.4	4.4	4.4	2.6	32.4	40.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)