

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: P453363

Luminaire Tested: **GALN-SA4B-827-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453363
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-SA4B-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 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: 11884 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

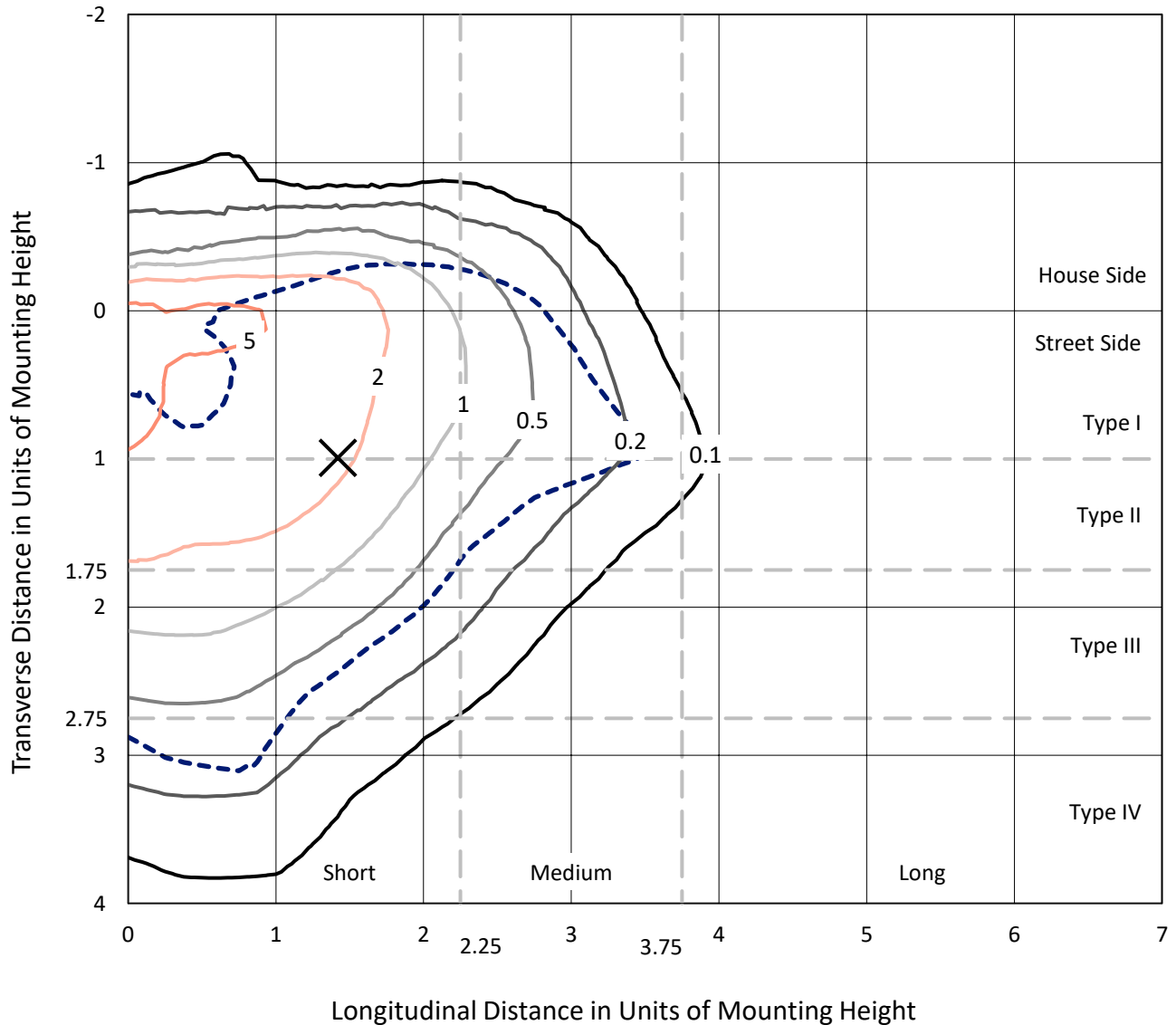
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

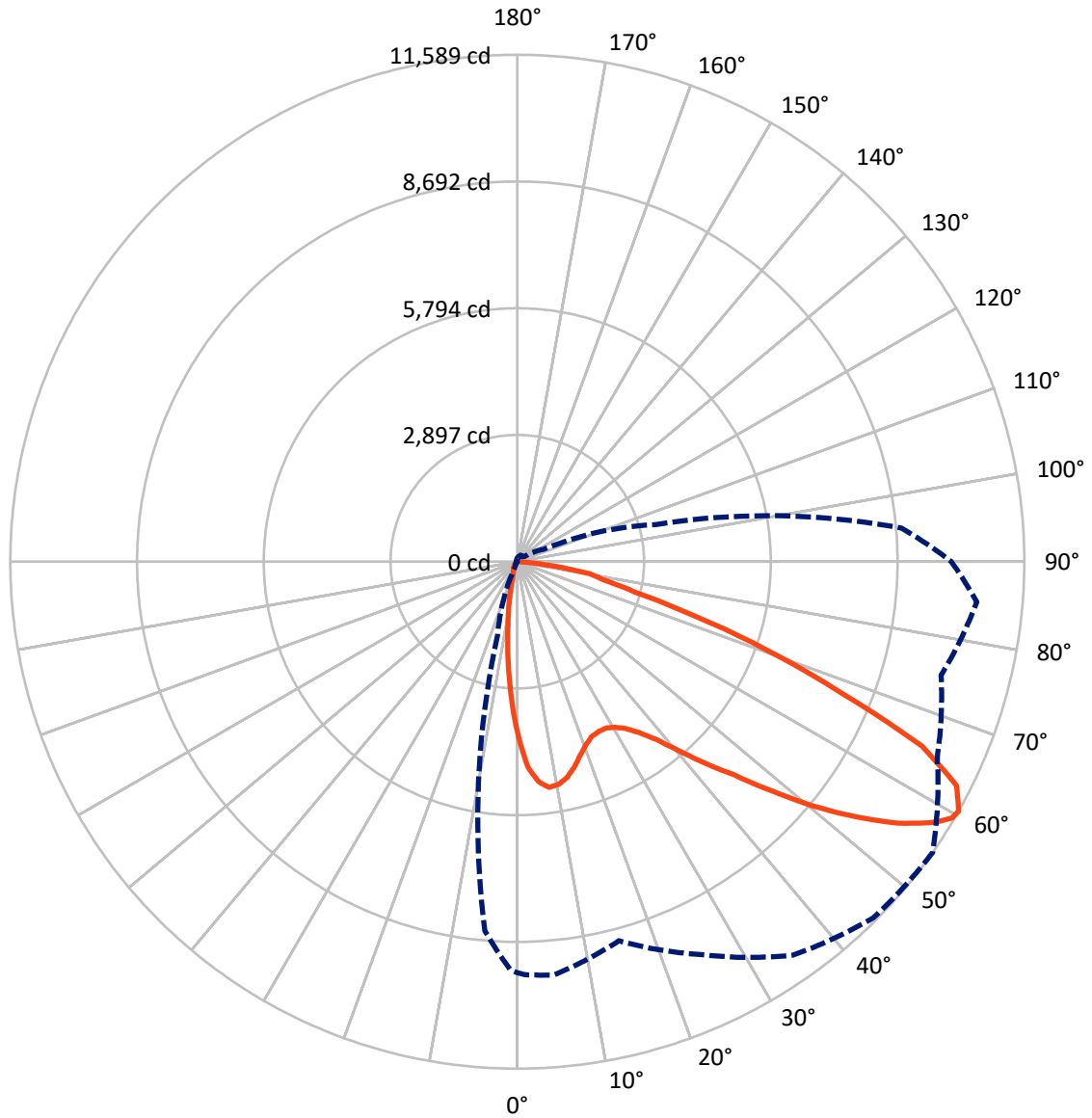
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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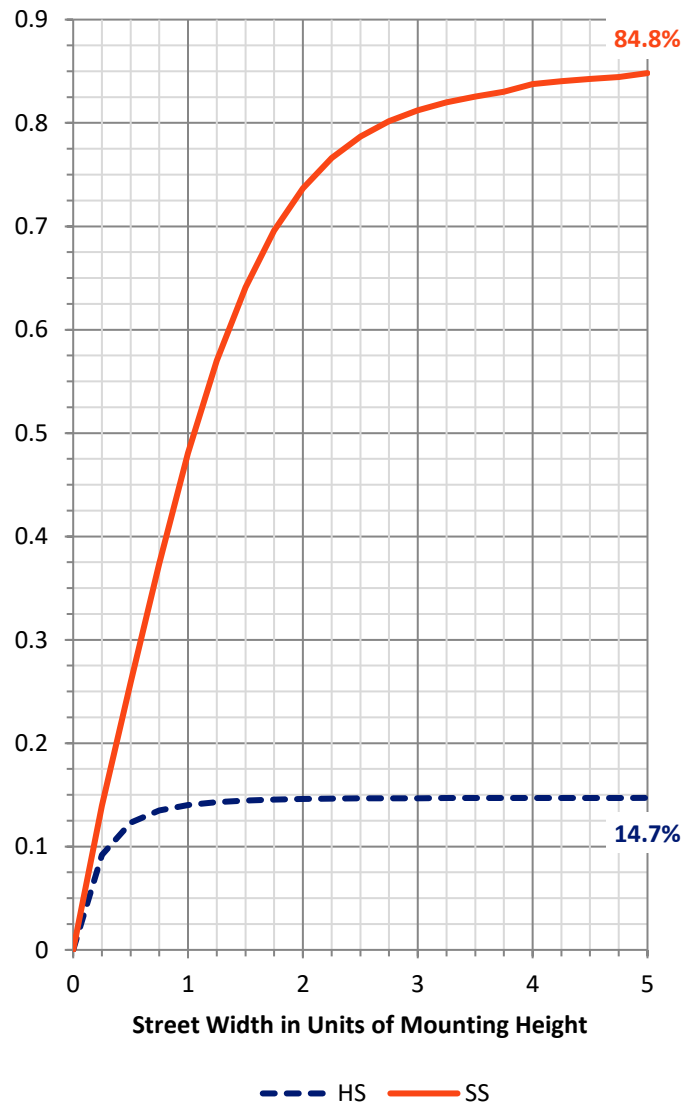
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1763.7	0.0	1763.7
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	10120.3	0.0	10120.3
	% Fixture	85.2	0.0	85.2
Total	Lumens	11884.0	0.0	11884.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.0	2.5
10°-20°	586.8	4.9
20°-30°	868.5	7.3
30°-40°	1294.7	10.9
40°-50°	1896.0	16.0
50°-60°	2737.3	23.0
60°-70°	2879.5	24.2
70°-80°	1184.5	10.0
80°-90°	138.7	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°	11884.0	100.0
0°-180°	11884.0	100.0



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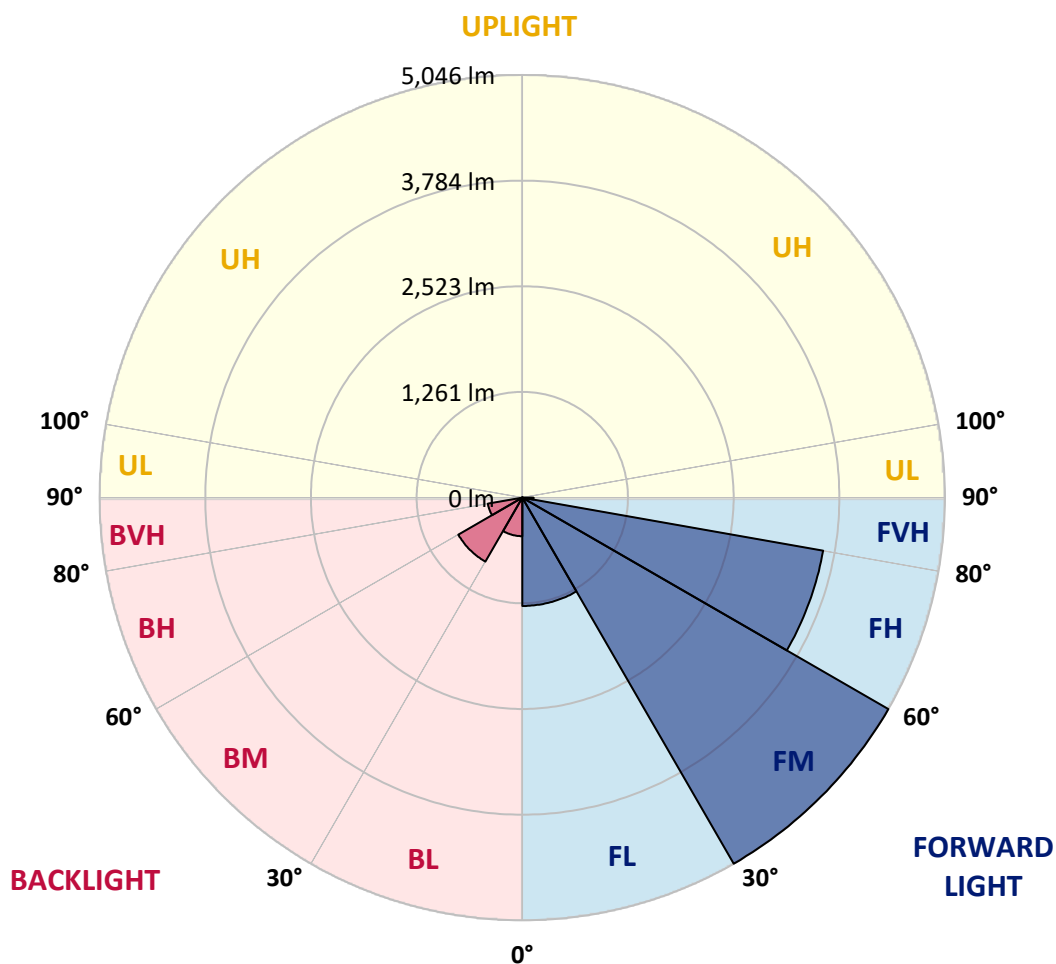
CATALOG NUMBER: GALN-SA4B-827-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1293.1	10.9			
FM	(30°-60°)	5046.0	42.5			
FH	(60°-80°)	3646.5	30.7			G2/5000
FVH	(80°-90°)	134.7	1.1			G2/225
BL	(0°-30°)	460.2	3.9	B1/500		
BM	(30°-60°)	882.0	7.4	B1/1000		
BH	(60°-80°)	417.5	3.5	B1/500		G1/500
BVH	(80°-90°)	4.1	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°	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9
2.5°	4396.2	4388.9	4453.8	4559.9	4666.9	4722.7	4711.8	4707.2	4618.5	4553.5	4417.2
5°	4387.0	4424.5	4540.7	4827.9	5045.6	5150.8	5181.9	5051.1	4878.2	4627.6	4318.4
7.5°	4124.5	4171.2	4360.5	4809.6	5196.6	5425.3	5417.0	5207.5	4850.8	4463.0	4022.1
10°	3798.9	3853.8	4076.0	4621.2	5123.4	5425.3	5441.7	5176.4	4732.8	4235.2	3771.4
12.5°	3569.3	3634.2	3880.3	4445.6	4935.0	5232.2	5251.5	5059.4	4644.1	4147.4	3635.1
15°	3491.5	3552.8	3802.5	4356.9	4734.6	4894.7	4890.1	4870.0	4609.3	4168.4	3642.4
17.5°	3625.1	3675.4	3957.1	4397.1	4547.1	4530.6	4554.4	4651.4	4616.6	4345.0	3873.0
20°	3969.9	4021.1	4323.9	4520.6	4403.5	4299.2	4310.2	4472.1	4684.3	4677.0	4233.4
22.5°	4444.7	4531.6	4806.0	4760.2	4384.3	4155.6	4132.7	4343.1	4799.6	5059.4	4720.0
25°	5045.6	5133.5	5347.5	5142.6	4478.5	4121.8	4100.7	4303.8	4939.5	5432.6	5267.9
27.5°	5550.6	5617.3	5830.5	5514.9	4617.5	4136.4	4101.6	4309.3	5053.0	5750.0	5729.9
30°	5954.9	6004.3	6129.6	5688.7	4737.4	4200.4	4160.2	4389.8	5103.3	5904.6	6104.0
32.5°	6280.5	6363.8	6403.1	5874.4	4909.3	4321.2	4252.6	4544.4	5225.8	6095.7	6496.4
35°	6652.8	6748.9	6698.6	6051.8	5136.2	4509.6	4425.5	4795.0	5411.5	6272.3	6951.9
37.5°	7124.8	7235.5	7038.8	6238.4	5375.9	4793.2	4753.8	5147.2	5693.3	6524.8	7440.4
40°	7613.3	7677.3	7369.1	6465.3	5670.4	5205.7	5243.2	5670.4	6061.9	6827.5	7960.0
42.5°	7994.7	8055.1	7708.4	6655.6	5971.3	5695.1	5851.5	6301.6	6484.5	7137.6	8347.8
45°	8286.5	8337.7	7943.5	6863.2	6377.5	6404.0	6699.5	6951.9	6908.0	7327.0	8646.9
47.5°	8513.4	8557.3	8124.6	7086.4	6985.8	7271.2	7723.1	7830.1	7347.1	7531.9	8917.7
50°	8606.7	8619.5	8181.3	7370.9	7676.4	8376.2	8847.3	8782.3	7850.2	7759.6	9205.8
52.5°	8728.3	8725.6	8343.2	7641.6	8325.9	9364.1	9834.2	9687.0	8419.2	8100.8	9529.6
55°	9047.6	9051.2	8689.9	8025.8	8879.3	10161.7	10664.8	10557.8	9019.2	8677.1	9907.4
57.5°	9435.4	9449.1	9183.0	8475.0	9408.0	10739.8	11285.0	11243.8	9830.6	9318.3	10264.2
59°	9485.7	9513.2	9416.2	8791.5	9721.7	10917.3	11497.2	11537.5	10265.1	9740.9	10457.2
60°	9394.3	9440.0	9483.9	8970.7	9905.6	10981.3	11510.0	11588.7	10591.6	10028.2	10545.0
62.5°	8995.4	9067.7	9288.2	9522.3	10135.2	10781.9	11101.1	11265.8	10995.9	10782.8	10553.2
65°	8473.1	8510.6	8829.0	9620.2	9689.7	9850.7	9949.5	10160.8	10510.2	11073.7	10175.4
67.5°	7616.9	7727.6	8117.3	9052.2	8375.3	8185.0	8160.3	7949.9	8857.3	10380.3	9244.2
70°	6292.4	6341.8	6822.0	7421.2	6320.8	6028.1	6145.1	6066.5	6866.0	8936.0	7440.4
72.5°	4758.4	4870.0	5339.3	5915.5	4301.1	3921.4	4244.3	4215.1	5157.2	7181.5	5111.5
75°	3385.4	3457.7	4055.9	4629.4	3012.2	2552.1	2668.3	2777.1	3600.4	5670.4	3020.4
77.5°	2326.2	2388.4	2837.5	3061.6	2197.2	2104.8	1925.5	2030.7	2359.1	3364.4	1643.8
80°	1403.2	1400.4	1695.9	1750.8	1530.3	1777.3	1491.0	1674.0	1426.1	1439.8	636.7
82.5°	911.1	901.9	1037.3	1130.6	851.6	895.5	601.0	866.2	929.4	401.6	201.2
85°	408.0	425.3	498.5	657.7	373.2	198.5	122.6	266.2	396.1	202.2	0.0
87.5°	42.1	32.9	87.8	160.1	51.2	5.5	18.3	9.1	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°	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9
2.5°	4354.1	4301.1	4142.8	3994.6	3867.5	3712.0	3611.3	3453.1	3357.1	3327.8	3332.4
5°	4179.4	4026.6	3725.7	3485.1	3217.1	3064.3	2832.0	2608.8	2488.1	2443.2	2423.1
7.5°	3813.5	3649.8	3286.6	2908.8	2621.6	2353.6	2180.7	1984.0	1849.6	1738.9	1719.7
10°	3541.8	3326.9	2876.8	2470.7	2243.8	2042.6	1869.7	1673.0	1514.8	1388.6	1353.8
12.5°	3379.0	3138.4	2636.2	2296.0	2081.0	1874.3	1649.3	1421.5	1259.6	1123.3	1060.2
15°	3349.7	3070.7	2568.6	2170.7	1905.4	1655.7	1356.5	1110.5	944.0	815.0	775.7
17.5°	3526.3	3192.4	2558.5	2039.8	1675.8	1321.8	1010.8	806.8	619.3	547.0	518.7
20°	3840.9	3407.4	2557.6	1888.0	1439.8	1018.1	709.8	526.0	450.0	415.3	398.8
22.5°	4270.0	3700.1	2606.1	1757.2	1194.6	751.0	506.8	418.9	375.0	346.7	340.3
25°	4794.1	4133.7	2725.0	1668.5	1007.1	589.1	418.0	358.6	322.0	309.2	303.7
27.5°	5259.7	4548.9	2855.8	1577.0	872.7	521.4	387.8	328.4	299.1	289.1	280.8
30°	5661.3	4925.8	2918.9	1456.2	764.7	477.5	393.3	351.3	312.8	282.7	268.9
32.5°	5996.0	5214.9	2960.1	1346.5	673.2	390.6	311.0	271.7	254.3	243.3	234.2
35°	6415.0	5527.7	2935.4	1284.3	626.6	355.8	283.6	234.2	204.9	182.9	173.8
37.5°	6854.1	5840.5	2892.4	1233.1	605.6	330.2	269.8	222.3	190.3	167.4	155.5
40°	7308.7	6130.5	2842.1	1185.5	586.3	313.8	261.6	212.2	180.2	155.5	142.7
42.5°	7724.9	6413.2	2821.9	1154.4	555.2	316.5	255.2	207.6	170.1	144.5	133.6
45°	8061.5	6681.2	2849.4	1137.9	521.4	311.9	257.0	202.2	161.9	137.2	126.2
47.5°	8421.0	7059.9	2938.1	1121.5	488.5	290.0	270.8	201.2	158.2	132.6	120.7
50°	8839.0	7544.7	3141.2	1081.2	448.2	266.2	288.1	200.3	153.7	127.1	115.3
52.5°	9396.1	8095.3	3350.6	1010.8	389.7	243.3	275.3	197.6	144.5	120.7	108.9
55°	9896.4	8675.3	3528.1	927.5	315.6	210.4	247.9	185.7	129.0	109.8	98.8
57.5°	10103.2	9002.8	3522.6	812.3	252.5	184.8	204.0	170.1	112.5	97.0	87.8
59°	10027.3	8961.6	3404.6	727.2	230.5	171.1	169.2	168.3	105.2	87.8	80.5
60°	9920.2	8811.6	3277.5	685.1	216.8	161.9	155.5	166.5	98.8	82.3	75.0
62.5°	9510.4	8189.6	2855.8	613.8	198.5	137.2	124.4	140.9	87.8	71.3	64.9
65°	8916.8	7233.7	2417.6	593.7	193.0	113.4	103.4	100.6	75.0	60.4	54.9
67.5°	7758.7	6121.4	1958.4	579.9	194.8	95.1	90.6	75.9	62.2	50.3	46.7
70°	6211.9	4773.1	1603.5	564.4	196.7	77.8	75.9	60.4	50.3	42.1	38.4
72.5°	3774.2	2829.3	1262.3	490.3	191.2	62.2	67.7	45.7	36.6	30.2	28.4
75°	2333.5	1936.5	783.0	381.4	126.2	45.7	47.6	28.4	24.7	19.2	19.2
77.5°	1352.0	1223.0	279.9	137.2	55.8	27.4	21.0	14.6	13.7	8.2	8.2
80°	560.7	449.1	97.0	46.7	30.2	12.8	4.6	0.9	0.0	0.0	0.0
82.5°	163.7	145.4	26.5	21.0	9.1	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°	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9
2.5°	3254.6	3224.4	3210.7	3257.3	3214.4	3269.2	3227.2	3245.5	3299.4	3323.2	3384.5
5°	2435.9	2404.8	2390.2	2460.6	2457.0	2491.7	2488.1	2520.1	2547.5	2486.2	2549.3
7.5°	1696.8	1675.8	1710.5	1765.4	1824.0	1804.8	1804.8	1761.8	1776.4	1767.3	1764.5
10°	1290.7	1218.4	1200.1	1198.3	1220.2	1224.8	1200.1	1140.7	1162.6	1169.0	1207.4
12.5°	1015.3	959.5	874.5	836.1	826.0	834.2	752.8	700.7	725.4	710.7	748.2
15°	728.1	682.4	632.1	589.1	577.2	560.7	472.0	409.8	402.5	405.2	411.6
17.5°	519.6	488.5	488.5	442.7	418.0	368.6	323.8	296.4	293.6	296.4	300.9
20°	383.3	366.8	365.0	353.1	325.6	292.7	261.6	256.1	254.3	258.9	260.7
22.5°	330.2	312.8	298.2	297.3	271.7	244.2	229.6	222.3	223.2	225.0	229.6
25°	295.5	277.2	261.6	252.5	234.2	215.0	201.2	197.6	197.6	200.3	201.2
27.5°	270.8	247.9	234.2	221.4	204.9	188.4	176.5	173.8	172.0	173.8	178.4
30°	253.4	230.5	213.1	193.9	181.1	165.6	155.5	151.8	150.9	151.8	155.5
32.5°	216.8	203.1	189.3	172.0	156.4	146.4	135.4	129.0	129.0	130.8	134.5
35°	163.7	156.4	155.5	150.9	138.1	127.1	114.3	107.9	107.9	111.6	113.4
37.5°	144.5	130.8	129.0	127.1	121.7	107.0	95.1	89.6	88.7	91.5	95.1
40°	131.7	116.2	107.9	106.1	107.0	90.6	77.8	72.3	72.3	73.2	76.8
42.5°	121.7	103.4	88.7	86.9	90.6	75.9	63.1	57.6	57.6	57.6	62.2
45°	113.4	92.4	75.0	65.9	71.3	62.2	51.2	45.7	43.9	45.7	47.6
47.5°	107.9	84.2	65.9	53.1	53.1	49.4	41.2	34.8	32.9	33.8	36.6
50°	103.4	76.8	55.8	43.0	38.4	39.3	31.1	26.5	24.7	24.7	27.4
52.5°	96.0	69.5	48.5	36.6	29.3	26.5	22.9	19.2	18.3	19.2	21.0
55°	86.9	63.1	42.1	30.2	22.9	18.3	16.5	13.7	12.8	13.7	16.5
57.5°	76.8	53.1	33.8	23.8	15.6	11.9	11.0	9.1	7.3	8.2	10.1
59°	70.4	47.6	29.3	19.2	11.9	8.2	8.2	6.4	4.6	5.5	8.2
60°	67.7	43.9	24.7	16.5	10.1	6.4	6.4	4.6	2.7	3.7	6.4
62.5°	57.6	36.6	19.2	10.1	4.6	0.9	2.7	0.9	0.0	0.9	2.7
65°	48.5	29.3	12.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.9
67.5°	40.2	22.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	32.0	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	22.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	13.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.5	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°	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9	4023.9
2.5°	3388.2	3519.0	3599.5	3751.3	3906.8	4026.6	4176.6	4311.1	4366.9	4396.2
5°	2613.4	2795.4	2950.0	3181.4	3396.4	3658.0	3923.3	4236.1	4355.9	4387.0
7.5°	1834.0	2019.7	2181.6	2449.6	2756.1	3106.4	3503.4	3900.4	4075.1	4124.5
10°	1324.5	1523.0	1720.6	1988.6	2274.9	2654.5	3068.0	3559.2	3760.4	3798.9
12.5°	836.1	1049.2	1370.3	1701.4	2004.2	2309.7	2742.4	3276.6	3498.8	3569.3
15°	484.8	644.0	886.4	1318.1	1703.2	2107.5	2579.5	3170.4	3419.3	3491.5
17.5°	324.7	379.6	546.1	876.3	1384.9	1920.9	2538.4	3257.3	3532.7	3625.1
20°	273.5	298.2	356.7	534.2	1066.6	1754.4	2549.3	3493.3	3854.7	3969.9
22.5°	240.6	263.4	300.9	384.2	744.6	1547.7	2601.5	3830.9	4297.4	4444.7
25°	212.2	235.1	268.0	318.3	500.4	1309.0	2715.8	4324.8	4883.7	5045.6
27.5°	188.4	209.5	237.8	280.8	385.1	1042.8	2817.4	4806.0	5418.9	5550.6
30°	166.5	183.9	211.3	244.2	320.2	804.0	2868.6	5226.8	5808.5	5954.9
32.5°	144.5	161.0	187.5	214.0	263.4	612.9	2832.9	5535.9	6187.2	6280.5
35°	123.5	140.9	162.8	187.5	227.8	494.9	2654.5	5883.5	6579.6	6652.8
37.5°	106.1	120.7	143.6	162.8	205.8	396.1	2438.7	6196.4	7019.6	7124.8
40°	89.6	104.3	127.1	144.5	189.3	311.9	2243.8	6544.0	7483.4	7613.3
42.5°	73.2	90.6	110.7	139.0	162.8	237.8	2007.8	6825.7	7831.9	7994.7
45°	58.5	77.8	99.7	138.1	141.8	181.1	1780.1	7045.2	8140.2	8286.5
47.5°	46.7	65.9	96.0	129.0	116.2	143.6	1650.2	7274.8	8396.3	8513.4
50°	37.5	54.9	100.6	113.4	97.0	121.7	1646.5	7531.0	8528.9	8606.7
52.5°	30.2	44.8	85.1	86.9	82.3	107.0	1745.3	7819.1	8664.3	8728.3
55°	25.6	37.5	55.8	64.0	74.1	97.0	1819.4	8262.7	8987.2	9047.6
57.5°	20.1	32.0	43.0	51.2	65.9	88.7	1829.5	8604.8	9396.1	9435.4
59°	17.4	27.4	38.4	45.7	60.4	83.2	1788.3	8625.9	9422.6	9485.7
60°	14.6	24.7	33.8	43.0	55.8	78.7	1743.5	8473.1	9323.8	9394.3
62.5°	11.0	19.2	24.7	34.8	45.7	67.7	1531.3	7939.8	8946.0	8995.4
65°	7.3	13.7	18.3	25.6	35.7	58.5	1247.7	7248.3	8362.4	8473.1
67.5°	4.6	10.1	14.6	19.2	29.3	49.4	889.1	6215.6	7545.6	7616.9
70°	2.7	6.4	11.0	15.6	22.9	39.3	527.8	4913.0	6277.8	6292.4
72.5°	1.8	4.6	7.3	11.0	18.3	35.7	256.1	3202.5	4583.7	4758.4
75°	0.9	2.7	4.6	8.2	14.6	29.3	122.6	2139.5	3335.1	3385.4
77.5°	0.0	0.9	2.7	5.5	11.0	22.9	71.3	1405.0	2274.0	2326.2
80°	0.0	0.0	1.8	4.6	8.2	14.6	43.0	828.7	1377.6	1403.2
82.5°	0.0	0.0	0.9	3.7	5.5	11.0	22.0	364.1	901.9	911.1
85°	0.0	0.0	0.9	3.7	4.6	7.3	8.2	49.4	400.7	408.0
87.5°	0.0	0.0	0.9	4.6	4.6	4.6	4.6	2.7	33.8	42.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)