

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: P646841

Luminaire Tested: **GALN-SA3C-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646841
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-SA3C-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA 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: 11801.4 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

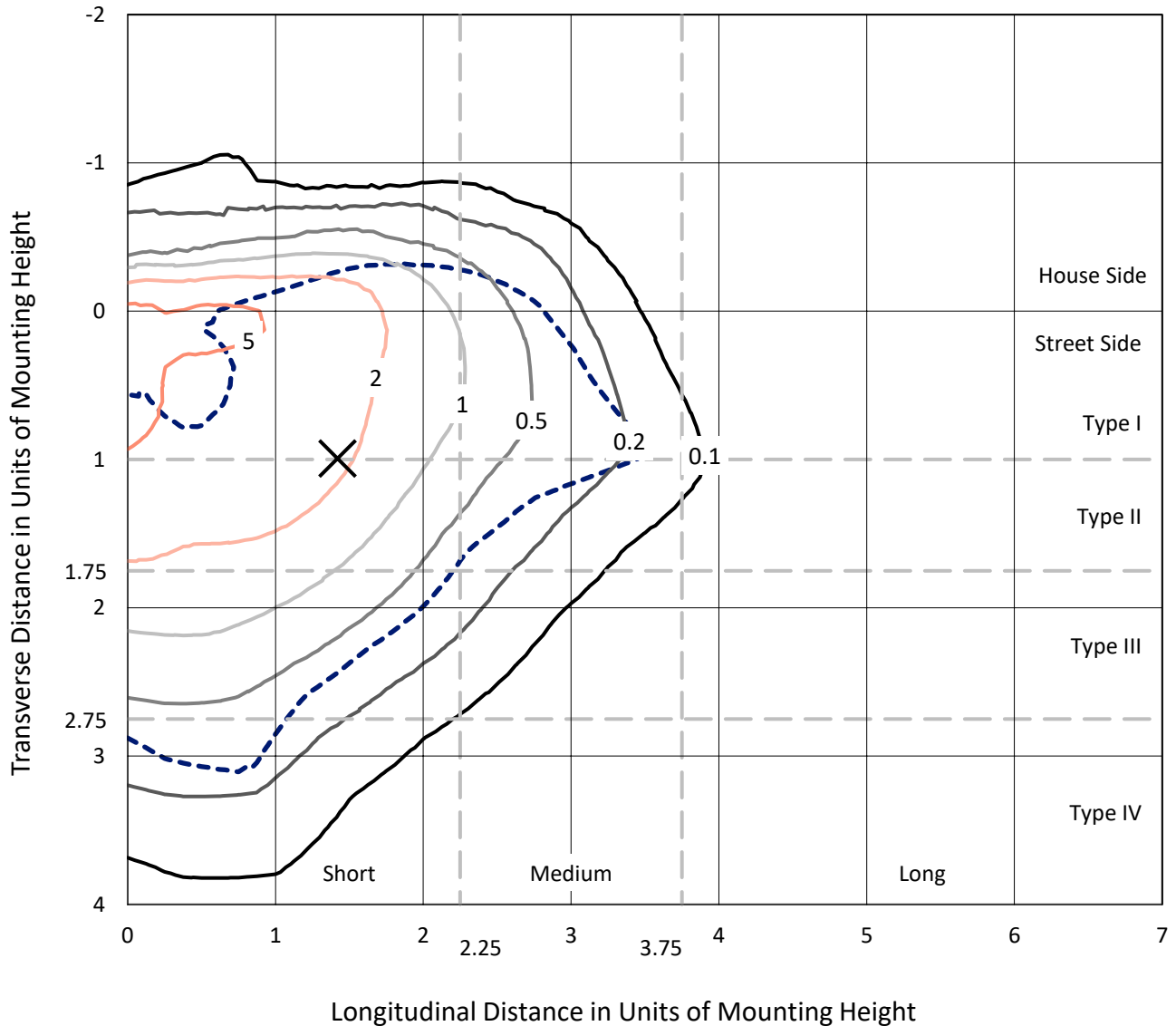
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

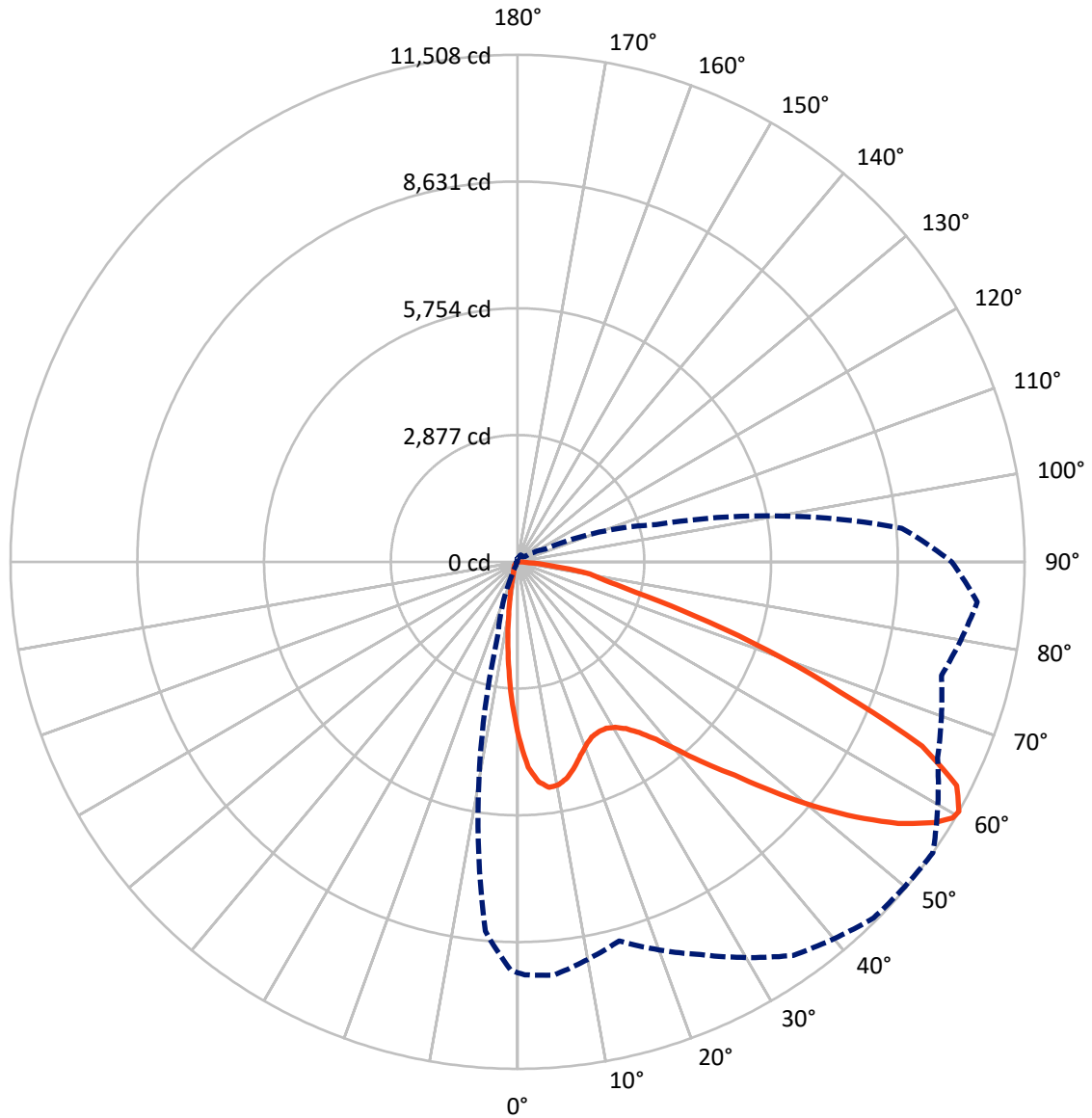
✕ Max cd
 - - - 1/2 Max cd



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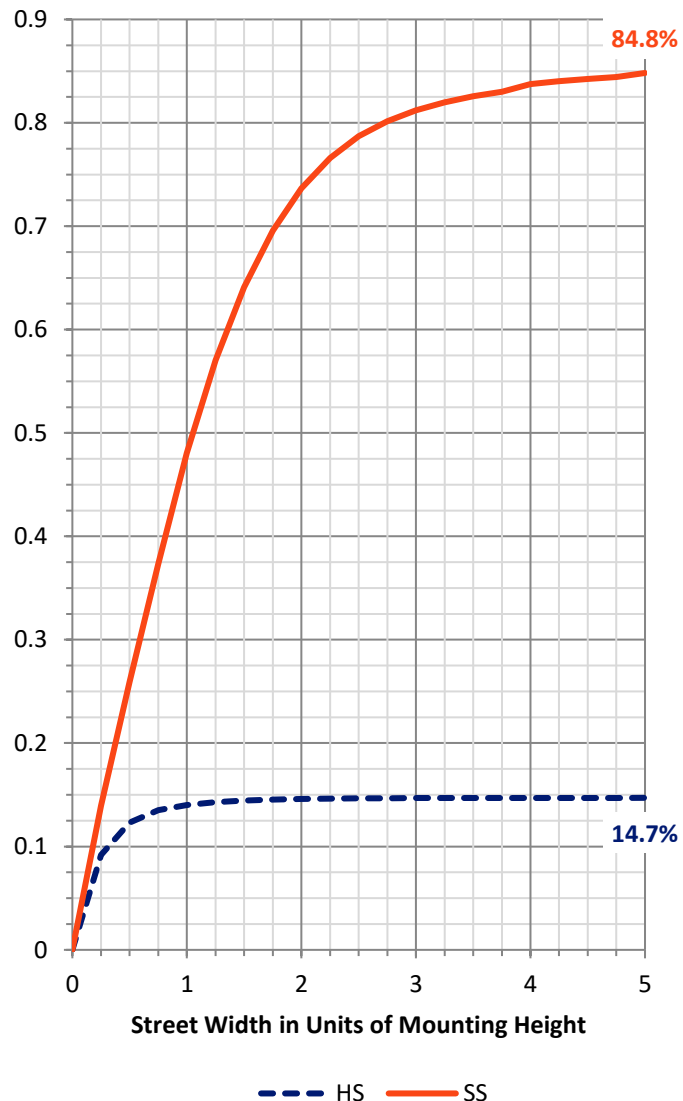
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1751.4	0.0	1751.4
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	10049.9	0.0	10049.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	11801.4	0.0	11801.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.9	2.5
10°-20°	582.7	4.9
20°-30°	862.5	7.3
30°-40°	1285.7	10.9
40°-50°	1882.9	16.0
50°-60°	2718.2	23.0
60°-70°	2859.5	24.2
70°-80°	1176.3	10.0
80°-90°	137.8	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°	11801.4	100.0
0°-180°	11801.4	100.0

Coefficient of Utilization



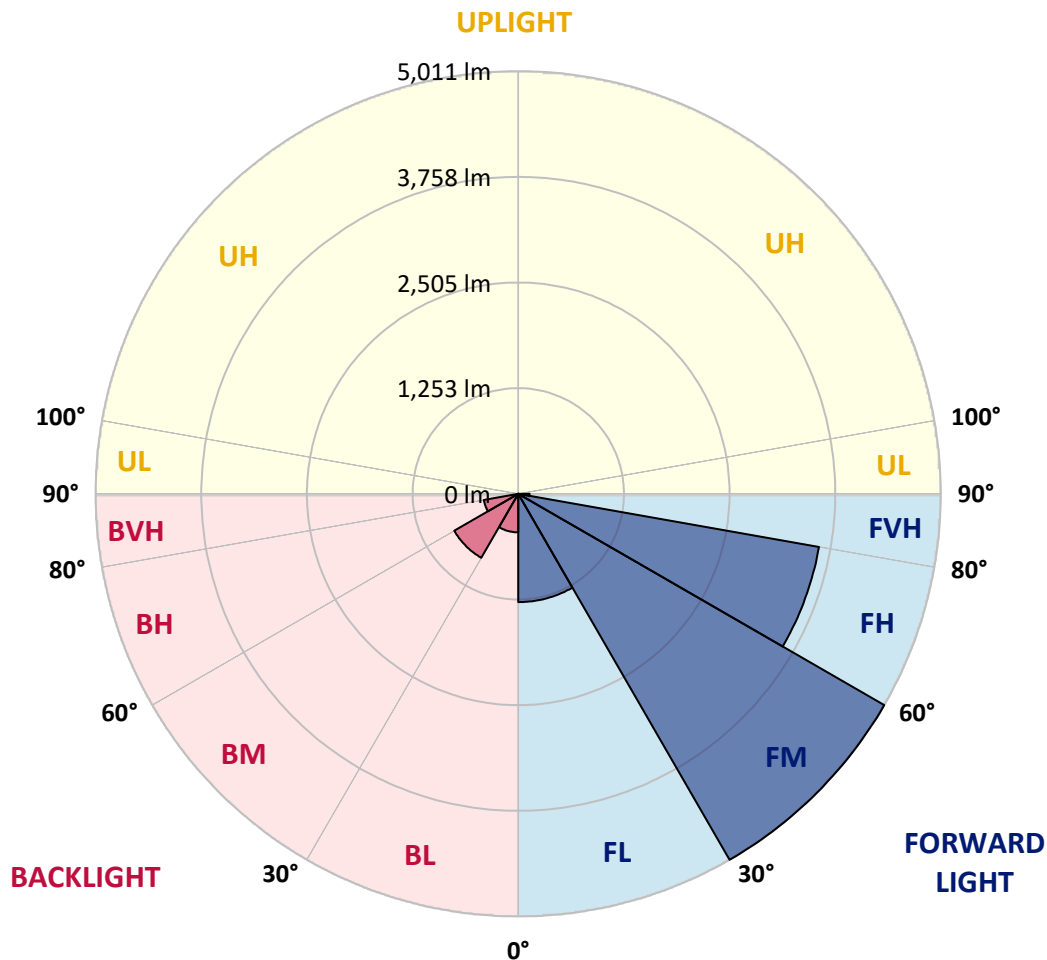
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1284.2	10.9			
FM (30°-60°)	5010.9	42.5			
FH (60°-80°)	3621.2	30.7			G2/5000
FVH (80°-90°)	133.7	1.1			G2/225
BL (0°-30°)	457.0	3.9	B1/500		
BM (30°-60°)	875.9	7.4	B1/1000		
BH (60°-80°)	414.5	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°	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9
2.5°	4365.6	4358.3	4422.9	4528.2	4634.5	4689.9	4679.0	4674.4	4586.3	4521.8	4386.5
5°	4356.5	4393.8	4509.1	4794.4	5010.6	5115.0	5145.9	5016.0	4844.3	4595.4	4288.4
7.5°	4095.8	4142.1	4330.2	4776.2	5160.4	5387.5	5379.4	5171.3	4817.1	4431.9	3994.1
10°	3772.4	3827.0	4047.7	4589.1	5087.8	5387.5	5403.9	5140.5	4699.9	4205.7	3745.2
12.5°	3544.5	3608.9	3853.3	4414.6	4900.6	5195.8	5214.9	5024.2	4611.8	4118.6	3609.9
15°	3467.3	3528.1	3776.1	4326.5	4701.7	4860.7	4856.2	4836.1	4577.3	4139.4	3617.1
17.5°	3599.8	3649.8	3929.6	4366.6	4515.5	4499.1	4522.8	4619.1	4584.5	4314.7	3846.0
20°	3942.3	3993.2	4293.9	4489.2	4372.9	4269.3	4280.3	4441.0	4651.7	4644.5	4203.9
22.5°	4413.8	4500.1	4772.5	4727.1	4353.8	4126.7	4104.0	4312.9	4766.2	5024.2	4687.2
25°	5010.6	5097.8	5310.3	5106.9	4447.4	4093.1	4072.2	4273.8	4905.2	5394.8	5231.3
27.5°	5512.0	5578.3	5790.0	5476.5	4585.5	4107.6	4073.1	4279.3	5017.9	5710.0	5690.0
30°	5913.5	5962.5	6087.0	5649.1	4704.4	4171.2	4131.3	4359.3	5067.8	5863.5	6061.5
32.5°	6236.8	6319.5	6358.6	5833.5	4875.2	4291.2	4223.0	4512.7	5189.5	6053.4	6451.2
35°	6606.6	6701.9	6652.0	6009.8	5100.5	4478.3	4394.7	4761.7	5373.9	6228.7	6903.6
37.5°	7075.3	7185.2	6989.9	6195.1	5338.5	4759.9	4720.8	5111.4	5653.7	6479.4	7388.7
40°	7560.3	7623.9	7317.8	6420.4	5630.9	5169.5	5206.8	5630.9	6019.8	6780.1	7904.6
42.5°	7939.2	7999.1	7654.8	6609.3	5929.8	5655.5	5810.8	6257.7	6439.4	7088.0	8289.8
45°	8228.9	8279.8	7888.3	6815.5	6333.1	6359.5	6652.9	6903.6	6860.0	7276.0	8586.8
47.5°	8454.2	8497.8	8068.1	7037.1	6937.2	7220.6	7669.3	7775.7	7296.0	7479.5	8855.7
50°	8546.8	8559.5	8124.5	7319.6	7623.1	8318.0	8785.7	8721.2	7795.6	7705.7	9141.8
52.5°	8667.7	8664.9	8285.2	7588.5	8267.9	9299.0	9765.9	9619.6	8360.6	8044.5	9463.4
55°	8984.7	8988.3	8629.5	7970.0	8817.5	10091.1	10590.7	10484.4	8956.5	8616.8	9838.6
57.5°	9369.8	9383.5	9119.1	8416.0	9342.6	10665.2	11206.5	11165.7	9762.2	9253.6	10192.8
59°	9419.8	9447.1	9350.7	8730.3	9654.2	10841.3	11417.3	11457.2	10193.7	9673.2	10384.5
60°	9329.0	9374.4	9418.0	8908.3	9836.8	10905.0	11430.0	11508.1	10518.0	9958.4	10471.7
62.5°	8932.9	9004.7	9223.6	9456.1	10064.8	10707.0	11023.9	11187.5	10919.5	10707.8	10479.8
65°	8414.2	8451.5	8767.6	9553.3	9622.4	9782.3	9880.4	10090.1	10437.2	10996.7	10104.7
67.5°	7564.0	7673.9	8060.8	8989.2	8317.0	8128.1	8103.6	7894.6	8795.8	10308.2	9180.0
70°	6248.7	6297.7	6774.6	7369.6	6276.8	5986.1	6102.4	6024.3	6818.2	8873.8	7388.7
72.5°	4725.3	4836.1	5302.2	5874.5	4271.2	3894.2	4214.8	4185.8	5121.4	7131.6	5076.0
75°	3361.9	3433.6	4027.7	4597.2	2991.3	2534.3	2649.7	2757.8	3575.3	5630.9	2999.4
77.5°	2310.0	2371.8	2817.8	3040.3	2181.9	2090.1	1912.1	2016.6	2342.7	3341.0	1632.3
80°	1393.4	1390.7	1684.1	1738.7	1519.7	1765.0	1480.7	1662.3	1416.1	1429.8	632.2
82.5°	904.8	895.7	1030.1	1122.7	845.7	889.3	596.8	860.2	922.9	398.8	199.8
85°	405.1	422.4	495.1	653.1	370.6	197.1	121.8	264.3	393.3	200.8	0.0
87.5°	41.8	32.7	87.2	158.9	50.9	5.5	18.2	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°	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9
2.5°	4323.8	4271.2	4114.0	3966.8	3840.6	3686.1	3586.2	3429.1	3333.7	3304.7	3309.2
5°	4150.4	3998.6	3699.8	3460.9	3194.7	3043.1	2812.3	2590.6	2470.8	2426.3	2406.2
7.5°	3787.0	3624.4	3263.8	2888.6	2603.4	2337.3	2165.5	1970.3	1836.7	1726.8	1707.7
10°	3517.2	3303.7	2856.9	2453.5	2228.3	2028.4	1856.7	1661.4	1504.2	1378.9	1344.4
12.5°	3355.5	3116.6	2617.9	2280.0	2066.6	1861.3	1637.8	1411.6	1250.8	1115.5	1052.8
15°	3326.4	3049.4	2550.7	2155.5	1892.1	1644.1	1347.1	1102.8	937.4	809.4	770.3
17.5°	3501.7	3170.2	2540.7	2025.7	1664.1	1312.6	1003.7	801.2	615.0	543.2	515.1
20°	3814.2	3383.7	2539.8	1874.9	1429.8	1011.0	704.9	522.3	446.9	412.4	396.0
22.5°	4240.3	3674.4	2588.0	1745.0	1186.3	745.8	503.2	416.0	372.4	344.3	337.9
25°	4760.8	4105.0	2706.0	1656.8	1000.1	585.0	415.1	356.1	319.8	307.0	301.6
27.5°	5223.2	4517.3	2835.9	1566.0	866.5	517.8	385.2	326.1	297.1	287.0	278.9
30°	5621.9	4891.6	2898.6	1446.1	759.4	474.2	390.6	348.8	310.7	280.7	267.1
32.5°	5954.3	5178.6	2939.5	1337.1	668.5	387.9	308.8	269.8	252.5	241.6	232.6
35°	6370.4	5489.3	2915.0	1275.4	622.3	353.4	281.6	232.6	203.5	181.7	172.6
37.5°	6806.4	5799.9	2872.3	1224.5	601.3	327.9	267.9	220.7	188.9	166.2	154.4
40°	7257.9	6087.9	2822.3	1177.2	582.2	311.6	259.8	210.7	178.9	154.4	141.7
42.5°	7671.2	6368.6	2802.3	1146.4	551.4	314.3	253.5	206.2	169.0	143.5	132.6
45°	8005.5	6634.8	2829.6	1130.0	517.8	309.8	255.3	200.8	160.7	136.2	125.4
47.5°	8362.4	7010.8	2917.7	1113.7	485.1	288.0	268.9	199.8	157.1	131.7	119.9
50°	8777.6	7492.2	3119.3	1073.7	445.1	264.3	286.1	199.0	152.6	126.3	114.5
52.5°	9330.8	8039.1	3327.4	1003.7	387.0	241.6	273.4	196.2	143.5	119.9	108.1
55°	9827.7	8615.0	3503.6	921.1	313.4	208.9	246.2	184.4	128.1	109.0	98.1
57.5°	10032.9	8940.1	3498.1	806.6	250.7	183.5	202.6	169.0	111.7	96.3	87.2
59°	9957.6	8899.3	3380.9	722.2	228.9	169.8	168.0	167.2	104.5	87.2	79.9
60°	9851.2	8750.3	3254.7	680.3	215.2	160.7	154.4	165.3	98.1	81.7	74.5
62.5°	9444.3	8132.6	2835.9	609.5	197.1	136.2	123.6	139.9	87.2	70.9	64.5
65°	8854.8	7183.4	2400.8	589.5	191.7	112.7	102.7	99.9	74.5	60.0	54.5
67.5°	7704.8	6078.8	1944.8	575.9	193.5	94.5	90.0	75.4	61.8	50.0	46.4
70°	6168.7	4739.9	1592.4	560.5	195.3	77.2	75.4	60.0	50.0	41.8	38.1
72.5°	3747.9	2809.6	1253.6	486.9	189.9	61.8	67.2	45.4	36.3	30.0	28.2
75°	2317.2	1923.0	777.6	378.8	125.4	45.4	47.2	28.2	24.5	19.1	19.1
77.5°	1342.5	1214.5	278.0	136.2	55.4	27.2	20.9	14.6	13.6	8.1	8.1
80°	556.8	446.0	96.3	46.4	30.0	12.7	4.5	0.9	0.0	0.0	0.0
82.5°	162.6	144.5	26.3	20.9	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°	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9
2.5°	3232.0	3202.0	3188.4	3234.7	3192.0	3246.5	3204.7	3222.9	3276.5	3300.1	3360.9
5°	2419.0	2388.1	2373.6	2443.5	2439.9	2474.4	2470.8	2502.5	2529.8	2469.0	2531.6
7.5°	1685.0	1664.1	1698.6	1753.1	1811.3	1792.2	1792.2	1749.5	1764.0	1754.9	1752.3
10°	1281.7	1210.0	1191.8	1189.9	1211.8	1216.3	1191.8	1132.8	1154.5	1160.9	1199.0
12.5°	1008.3	952.9	868.4	830.2	820.3	828.4	747.6	695.8	720.4	705.8	743.1
15°	723.1	677.6	627.7	585.0	573.2	556.8	468.7	406.9	399.6	402.4	408.8
17.5°	515.9	485.1	485.1	439.7	415.1	366.1	321.6	294.3	291.6	294.3	298.9
20°	380.6	364.3	362.5	350.6	323.4	290.6	259.8	254.3	252.5	257.1	258.9
22.5°	327.9	310.7	296.1	295.2	269.8	242.6	228.0	220.7	221.7	223.5	228.0
25°	293.4	275.2	259.8	250.7	232.6	213.4	199.8	196.2	196.2	199.0	199.8
27.5°	268.9	246.2	232.6	219.8	203.5	187.1	175.3	172.6	170.8	172.6	177.1
30°	251.7	228.9	211.6	192.5	179.9	164.4	154.4	150.8	149.9	150.8	154.4
32.5°	215.2	201.6	188.0	170.8	155.3	145.3	134.4	128.1	128.1	129.9	133.5
35°	162.6	155.3	154.4	149.9	137.2	126.3	113.5	107.2	107.2	110.8	112.7
37.5°	143.5	129.9	128.1	126.3	120.8	106.3	94.5	89.0	88.1	90.8	94.5
40°	130.8	115.3	107.2	105.4	106.3	90.0	77.2	71.7	71.7	72.7	76.3
42.5°	120.8	102.7	88.1	86.3	90.0	75.4	62.6	57.2	57.2	57.2	61.8
45°	112.7	91.8	74.5	65.4	70.9	61.8	50.9	45.4	43.6	45.4	47.2
47.5°	107.2	83.5	65.4	52.7	52.7	49.0	40.9	34.5	32.7	33.6	36.3
50°	102.7	76.3	55.4	42.7	38.1	39.1	30.9	26.3	24.5	24.5	27.2
52.5°	95.4	69.1	48.2	36.3	29.0	26.3	22.7	19.1	18.2	19.1	20.9
55°	86.3	62.6	41.8	30.0	22.7	18.2	16.4	13.6	12.7	13.6	16.4
57.5°	76.3	52.7	33.6	23.6	15.4	11.8	10.9	9.1	7.3	8.1	10.0
59°	69.9	47.2	29.0	19.1	11.8	8.1	8.1	6.3	4.5	5.5	8.1
60°	67.2	43.6	24.5	16.4	10.0	6.3	6.3	4.5	2.7	3.6	6.3
62.5°	57.2	36.3	19.1	10.0	4.5	0.9	2.7	0.9	0.0	0.9	2.7
65°	48.2	29.0	12.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.9
67.5°	39.9	21.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	31.8	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	21.8	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	13.6	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



REPORT NUMBER: P646841
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9
2.5°	3364.6	3494.5	3574.4	3725.2	3879.6	3998.6	4147.6	4281.1	4336.6	4365.6
5°	2595.2	2776.0	2929.5	3159.3	3372.8	3632.6	3896.0	4206.7	4325.7	4356.5
7.5°	1821.3	2005.7	2166.5	2432.6	2736.9	3084.8	3479.0	3873.3	4046.8	4095.8
10°	1315.3	1512.4	1708.7	1974.8	2259.1	2636.0	3046.7	3534.5	3734.3	3772.4
12.5°	830.2	1041.9	1360.7	1689.6	1990.2	2293.6	2723.3	3253.8	3474.5	3544.5
15°	481.5	639.5	880.2	1308.9	1691.4	2092.9	2561.6	3148.4	3395.5	3467.3
17.5°	322.4	376.9	542.3	870.2	1375.3	1907.5	2520.7	3234.7	3508.2	3599.8
20°	271.6	296.1	354.2	530.5	1059.2	1742.3	2531.6	3469.1	3827.9	3942.3
22.5°	238.9	261.6	298.9	381.5	739.4	1537.0	2583.4	3804.3	4267.5	4413.8
25°	210.7	233.4	266.1	316.1	496.9	1299.9	2697.0	4294.8	4849.7	5010.6
27.5°	187.1	208.0	236.2	278.9	382.4	1035.5	2797.7	4772.5	5381.2	5512.0
30°	165.3	182.6	209.8	242.6	317.9	798.4	2848.6	5190.4	5768.1	5913.5
32.5°	143.5	159.9	186.2	212.6	261.6	608.6	2813.2	5497.4	6144.2	6236.8
35°	122.6	139.9	161.7	186.2	226.2	491.4	2636.0	5842.6	6533.9	6606.6
37.5°	105.4	119.9	142.6	161.7	204.4	393.3	2421.7	6153.3	6970.8	7075.3
40°	89.0	103.6	126.3	143.5	188.0	309.8	2228.3	6498.4	7431.4	7560.3
42.5°	72.7	90.0	109.9	138.0	161.7	236.2	1993.8	6778.3	7777.5	7939.2
45°	58.1	77.2	99.0	137.2	140.8	179.9	1767.7	6996.3	8083.5	8228.9
47.5°	46.4	65.4	95.4	128.1	115.3	142.6	1638.7	7224.3	8337.9	8454.2
50°	37.3	54.5	99.9	112.7	96.3	120.8	1635.1	7478.6	8469.6	8546.8
52.5°	30.0	44.5	84.5	86.3	81.7	106.3	1733.2	7764.7	8604.1	8667.7
55°	25.4	37.3	55.4	63.6	73.6	96.3	1806.8	8205.3	8924.7	8984.7
57.5°	20.0	31.8	42.7	50.9	65.4	88.1	1816.7	8545.0	9330.8	9369.8
59°	17.2	27.2	38.1	45.4	60.0	82.7	1775.8	8565.9	9357.1	9419.8
60°	14.6	24.5	33.6	42.7	55.4	78.1	1731.4	8414.2	9259.0	9329.0
62.5°	10.9	19.1	24.5	34.5	45.4	67.2	1520.6	7884.7	8883.8	8932.9
65°	7.3	13.6	18.2	25.4	35.4	58.1	1239.0	7197.9	8304.3	8414.2
67.5°	4.5	10.0	14.6	19.1	29.0	49.0	882.9	6172.4	7493.2	7564.0
70°	2.7	6.3	10.9	15.4	22.7	39.1	524.1	4878.9	6234.2	6248.7
72.5°	1.8	4.5	7.3	10.9	18.2	35.4	254.3	3180.2	4551.8	4725.3
75°	0.9	2.7	4.5	8.1	14.6	29.0	121.8	2124.7	3311.9	3361.9
77.5°	0.0	0.9	2.7	5.5	10.9	22.7	70.9	1395.2	2258.2	2310.0
80°	0.0	0.0	1.8	4.5	8.1	14.6	42.7	823.0	1368.0	1393.4
82.5°	0.0	0.0	0.9	3.6	5.5	10.9	21.8	361.5	895.7	904.8
85°	0.0	0.0	0.9	3.6	4.5	7.3	8.1	49.0	397.8	405.1
87.5°	0.0	0.0	0.9	4.5	4.5	4.5	4.5	2.7	33.6	41.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)