

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: P459163

Luminaire Tested: **GALN-SA6C-735-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459163
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-SA6C-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 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: 27890 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

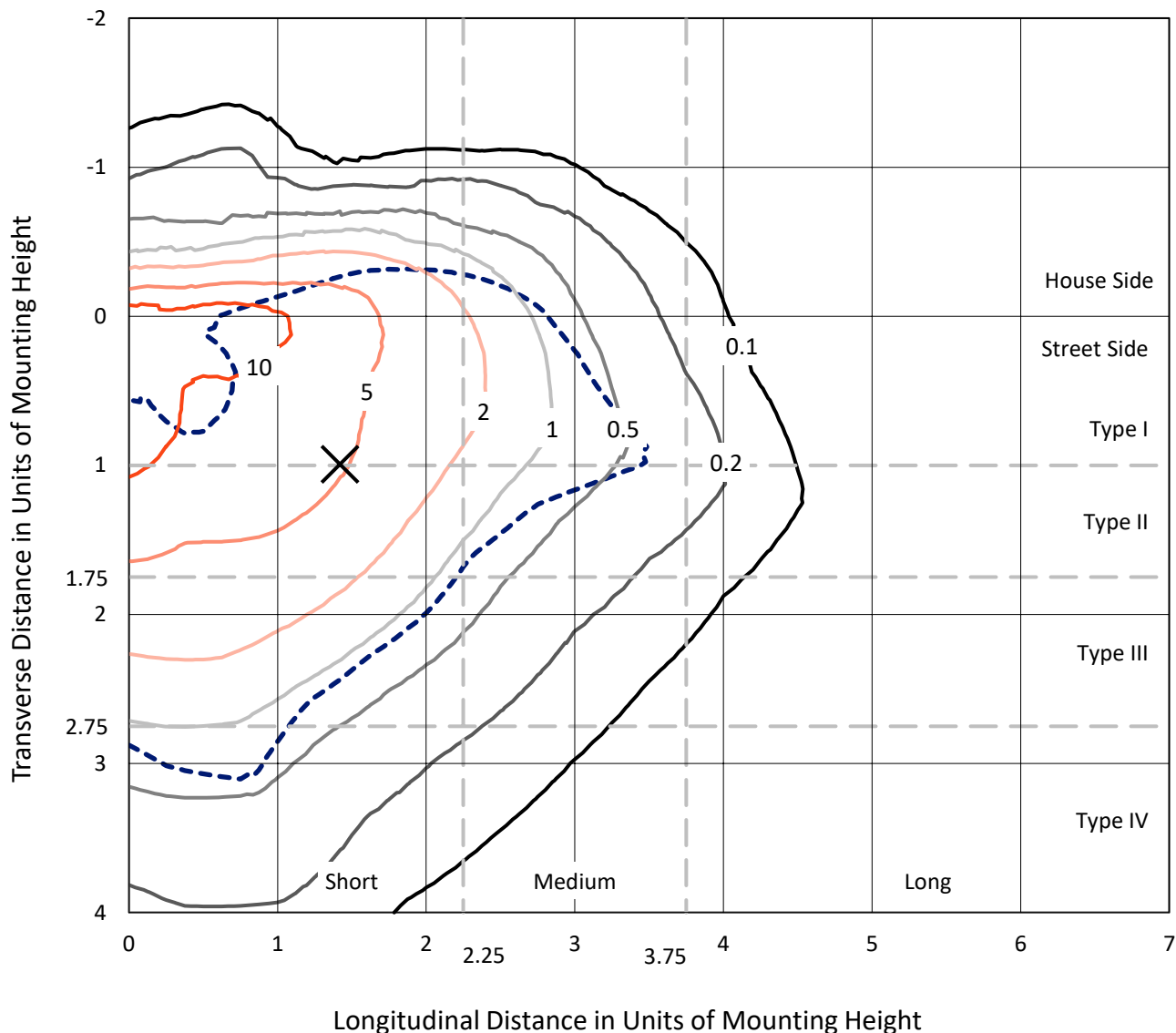
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

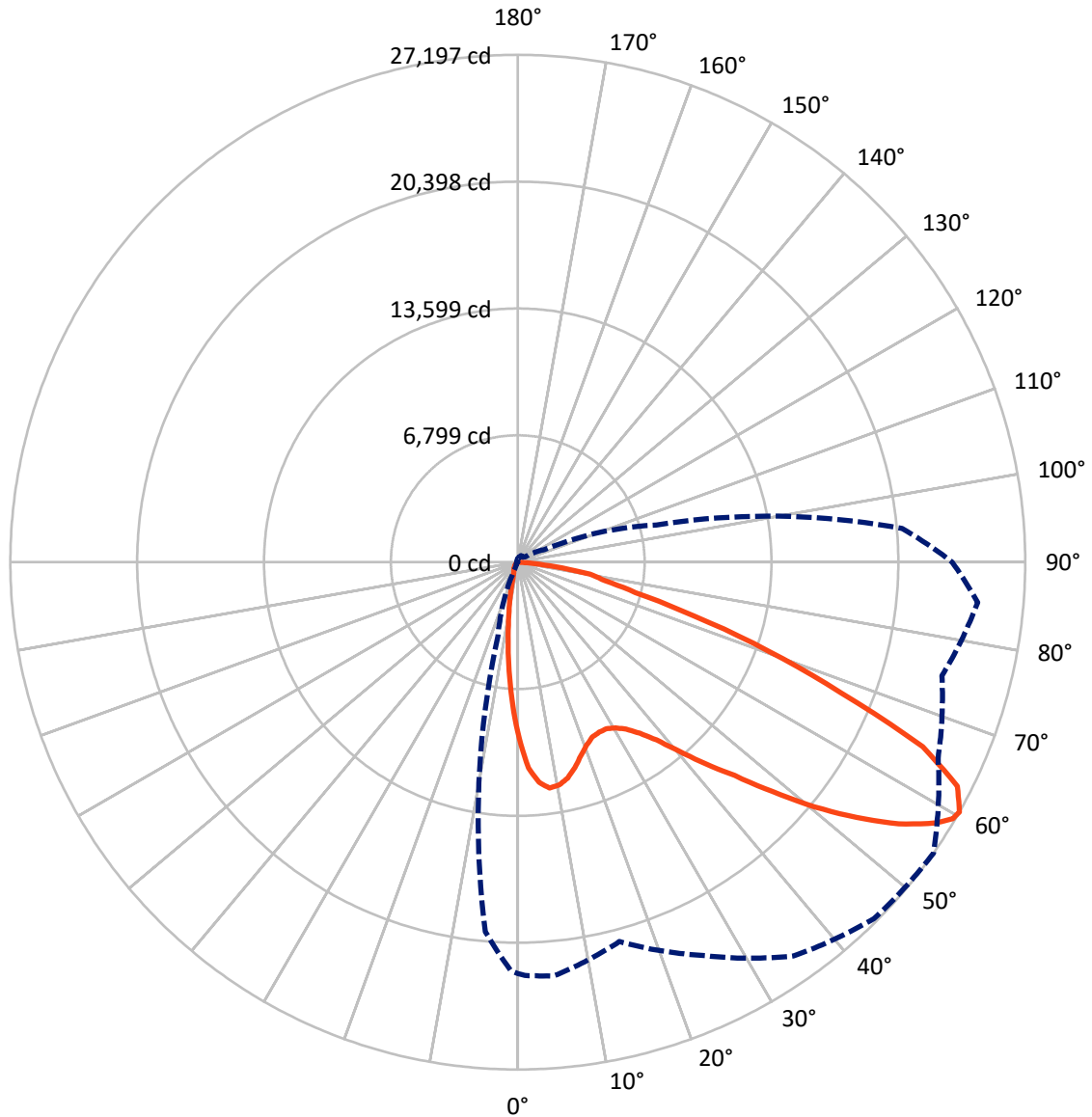
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 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	4139.1	0.0	4139.1
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	23750.9	0.0	23750.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	27890.0	0.0	27890.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	699.3	2.5
10°-20°	1377.1	4.9
20°-30°	2038.3	7.3
30°-40°	3038.4	10.9
40°-50°	4449.7	16.0
50°-60°	6424.0	23.0
60°-70°	6757.7	24.2
70°-80°	2779.9	10.0
80°-90°	325.6	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°	27890.0	100.0
0°-180°	27890.0	100.0

Coefficient of Utilization



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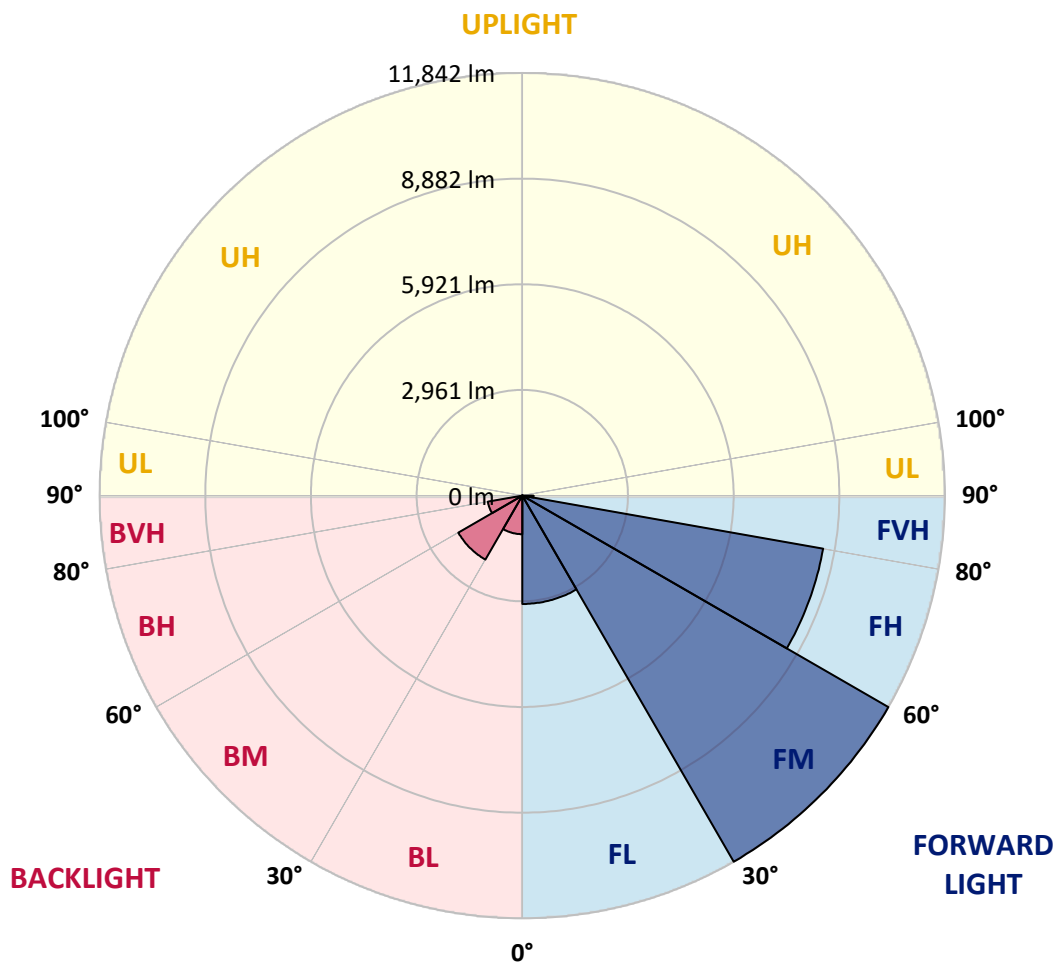
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3034.8	10.9			
FM	(30°-60°)	11842.1	42.5			
FH	(60°-80°)	8557.9	30.7			G4/12000
FVH	(80°-90°)	316.0	1.1			G3/500
BL	(0°-30°)	1079.9	3.9	B3/2500		
BM	(30°-60°)	2069.9	7.4	B2/2500		
BH	(60°-80°)	979.7	3.5	B2/1000		G2/1000
BVH	(80°-90°)	9.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5
2.5°	10317.2	10300.0	10452.4	10701.5	10952.6	11083.6	11057.8	11047.1	10838.9	10686.4	10366.6
5°	10295.7	10383.7	10656.4	11330.5	11841.4	12088.3	12161.2	11854.3	11448.5	10860.3	10134.7
7.5°	9679.6	9789.1	10233.5	11287.5	12195.6	12732.3	12713.0	12221.3	11384.1	10473.9	9439.2
10°	8915.4	9044.2	9565.8	10845.3	12023.8	12732.3	12770.9	12148.4	11107.2	9939.4	8851.0
12.5°	8376.6	8529.0	9106.4	10433.1	11581.6	12279.3	12324.4	11873.6	10899.0	9733.3	8531.1
15°	8194.1	8337.9	8924.0	10224.9	11111.5	11487.2	11476.4	11429.2	10817.4	9782.7	8548.3
17.5°	8507.5	8625.6	9286.8	10319.3	10671.4	10632.8	10688.6	10916.1	10834.6	10197.0	9089.3
20°	9316.8	9437.0	10147.6	10609.2	10334.4	10089.6	10115.4	10495.4	10993.4	10976.2	9935.1
22.5°	10431.0	10634.9	11278.9	11171.6	10289.3	9752.6	9698.9	10192.7	11263.9	11873.6	11077.1
25°	11841.4	12047.5	12549.8	12068.9	10510.4	9673.2	9623.8	10100.4	11592.4	12749.4	12363.0
27.5°	13026.4	13183.1	13683.3	12942.7	10836.7	9707.5	9625.9	10113.3	11858.6	13494.4	13447.1
30°	13975.2	14091.2	14385.3	13350.5	11117.9	9857.8	9763.3	10302.2	11976.6	13857.2	14325.1
32.5°	14739.5	14934.8	15027.1	13786.3	11521.5	10141.2	9980.2	10665.0	12264.3	14305.8	15246.1
35°	15613.2	15838.6	15720.5	14202.8	12053.9	10583.4	10385.9	11253.2	12700.1	14720.1	16315.2
37.5°	16720.9	16980.7	16519.1	14640.7	12616.3	11248.9	11156.6	12079.7	13361.3	15312.6	17461.5
40°	17867.3	18017.5	17294.1	15173.1	13307.6	12217.1	12305.1	13307.6	14226.4	16023.2	18680.9
42.5°	18762.4	18904.1	18090.5	15619.6	14013.9	13365.6	13732.6	14788.8	15218.2	16751.0	19591.1
45°	19447.3	19567.5	18642.2	16106.9	14967.0	15029.3	15722.7	16315.2	16212.1	17195.3	20293.1
47.5°	19979.6	20082.7	19067.3	16630.7	16394.6	17064.4	18124.9	18376.0	17242.6	17676.2	20928.5
50°	20198.6	20228.7	19200.4	17298.4	18015.4	19657.6	20763.2	20610.8	18423.3	18210.7	21604.7
52.5°	20484.1	20477.7	19580.3	17933.8	19539.6	21976.1	23079.5	22733.9	19758.5	19011.5	22364.7
55°	21233.3	21241.9	20394.0	18835.4	20838.3	23848.1	25028.8	24777.6	21166.8	20363.9	23251.3
57.5°	22143.5	22175.7	21551.0	19889.5	22079.1	25204.8	26484.2	26387.6	23070.9	21868.8	24088.5
59°	22261.6	22326.0	22098.5	20632.2	22815.5	25621.3	26982.3	27076.7	24090.6	22860.6	24541.4
60°	22046.9	22154.3	22257.3	21053.0	23247.0	25771.5	27012.3	27197.0	24857.0	23534.6	24747.5
62.5°	21111.0	21280.6	21797.9	22347.5	23785.8	25303.5	26052.7	26439.2	25805.9	25305.7	24766.9
65°	19885.2	19973.2	20720.3	22577.2	22740.3	23118.2	23350.0	23845.9	24666.0	25988.3	23880.3
67.5°	17875.8	18135.6	19050.1	21244.1	19655.5	19209.0	19151.0	18657.3	20786.8	24361.1	21694.9
70°	14767.4	14883.3	16010.3	17416.4	14833.9	14147.0	14421.7	14237.1	16113.4	20971.4	17461.5
72.5°	11167.3	11429.2	12530.5	13882.9	10093.9	9203.0	9960.8	9892.1	12103.3	16854.0	11995.9
75°	7945.1	8114.6	9518.6	10864.6	7069.2	5989.4	6262.0	6517.5	8449.5	13307.6	7088.5
77.5°	5459.1	5605.1	6659.2	7185.1	5156.5	4939.6	4518.9	4765.7	5536.4	7895.7	3857.7
80°	3293.1	3286.6	3980.0	4108.8	3591.5	4171.1	3499.2	3928.5	3346.8	3379.0	1494.1
82.5°	2138.1	2116.7	2434.4	2653.4	1998.6	2101.7	1410.4	2033.0	2181.1	942.4	472.3
85°	957.4	998.2	1170.0	1543.5	875.9	465.8	287.7	624.7	929.5	474.4	0.0
87.5°	98.7	77.3	206.1	375.7	120.2	12.9	42.9	21.5	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°	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5
2.5°	10218.4	10093.9	9722.6	9374.8	9076.4	8711.4	8475.3	8103.9	7878.5	7809.8	7820.5
5°	9808.4	9449.9	8743.6	8179.1	7550.1	7191.6	6646.3	6122.5	5839.1	5733.9	5686.7
7.5°	8949.7	8565.5	7713.2	6826.6	6152.5	5523.5	5117.8	4656.3	4340.7	4080.9	4035.9
10°	8312.1	7807.7	6751.5	5798.3	5265.9	4793.7	4387.9	3926.4	3555.0	3258.7	3177.2
12.5°	7930.0	7365.4	6186.9	5388.3	4883.8	4398.7	3870.6	3336.0	2956.1	2636.2	2488.1
15°	7861.3	7206.6	6028.0	5094.2	4471.6	3885.6	3183.6	2606.1	2215.4	1912.7	1820.4
17.5°	8275.7	7492.1	6004.4	4787.2	3932.8	3102.0	2372.1	1893.4	1453.3	1283.7	1217.2
20°	9014.1	7996.6	6002.3	4430.9	3379.0	2389.3	1665.9	1234.4	1056.2	974.6	936.0
22.5°	10020.9	8683.5	6116.0	4123.9	2803.6	1762.5	1189.3	983.2	880.2	813.6	798.6
25°	11251.0	9701.1	6395.1	3915.6	2363.6	1382.5	981.1	841.5	755.6	725.6	712.7
27.5°	12343.7	10675.7	6702.1	3701.0	2048.0	1223.6	910.2	770.7	702.0	678.4	659.0
30°	13286.1	11560.2	6850.2	3417.6	1794.7	1120.6	923.1	824.3	734.2	663.3	631.1
32.5°	14071.8	12238.5	6946.8	3160.0	1580.0	916.7	729.9	637.6	596.8	571.0	549.6
35°	15055.0	12972.7	6888.9	3014.0	1470.5	835.1	665.5	549.6	480.9	429.3	407.9
37.5°	16085.5	13706.9	6788.0	2893.8	1421.1	775.0	633.3	521.7	446.5	392.9	364.9
40°	17152.4	14387.4	6669.9	2782.2	1376.1	736.3	614.0	498.0	422.9	364.9	334.9
42.5°	18129.2	15050.7	6622.7	2709.2	1303.1	742.8	598.9	487.3	399.3	339.2	313.4
45°	18919.2	15679.7	6687.1	2670.5	1223.6	732.0	603.2	474.4	380.0	322.0	296.2
47.5°	19762.8	16568.5	6895.3	2631.9	1146.4	680.5	635.4	472.3	371.4	311.3	283.4
50°	20743.9	17706.3	7371.9	2537.4	1051.9	624.7	676.2	470.1	360.7	298.4	270.5
52.5°	22051.2	18998.6	7863.5	2372.1	914.5	571.0	646.2	463.7	339.2	283.4	255.5
55°	23225.5	20359.6	8279.9	2176.8	740.6	493.7	581.8	435.8	302.7	257.6	231.8
57.5°	23710.7	21128.1	8267.1	1906.3	592.5	433.6	478.7	399.3	264.0	227.6	206.1
59°	23532.5	21031.5	7990.1	1706.7	541.0	401.4	397.1	395.0	246.9	206.1	188.9
60°	23281.3	20679.5	7691.7	1607.9	508.8	380.0	364.9	390.7	231.8	193.2	176.0
62.5°	22319.6	19219.7	6702.1	1440.5	465.8	322.0	292.0	330.6	206.1	167.4	152.4
65°	20926.3	16976.4	5673.8	1393.2	453.0	266.2	242.6	236.1	176.0	141.7	128.8
67.5°	18208.6	14365.9	4596.2	1361.0	457.3	223.3	212.5	178.2	146.0	118.1	109.5
70°	14578.5	11201.7	3763.2	1324.5	461.5	182.5	178.2	141.7	118.1	98.7	90.2
72.5°	8857.4	6639.8	2962.5	1150.6	448.7	146.0	158.9	107.3	85.9	70.8	66.5
75°	5476.3	4544.6	1837.6	895.2	296.2	107.3	111.6	66.5	58.0	45.1	45.1
77.5°	3172.9	2870.2	656.9	322.0	131.0	64.4	49.4	34.3	32.2	19.3	19.3
80°	1315.9	1054.0	227.6	109.5	70.8	30.1	10.7	2.1	0.0	0.0	0.0
82.5°	384.3	341.3	62.3	49.4	21.5	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°	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5
2.5°	7638.1	7567.2	7535.0	7644.5	7543.6	7672.4	7573.7	7616.6	7743.3	7799.1	7942.9
5°	5716.7	5643.8	5609.4	5774.7	5766.1	5847.7	5839.1	5914.2	5978.7	5834.8	5982.9
7.5°	3982.2	3932.8	4014.4	4143.2	4280.6	4235.5	4235.5	4134.6	4169.0	4147.5	4141.0
10°	3029.0	2859.4	2816.5	2812.2	2863.7	2874.5	2816.5	2677.0	2728.5	2743.5	2833.7
12.5°	2382.9	2251.9	2052.3	1962.1	1938.5	1957.8	1766.8	1644.4	1702.4	1668.0	1756.0
15°	1708.8	1601.5	1483.4	1382.5	1354.6	1315.9	1107.7	961.7	944.6	951.0	966.0
17.5°	1219.3	1146.4	1146.4	1039.0	981.1	865.1	759.9	695.5	689.1	695.5	706.3
20°	899.5	860.8	856.5	828.6	764.2	687.0	614.0	601.1	596.8	607.5	611.8
22.5°	775.0	734.2	699.8	697.7	637.6	573.2	538.8	521.7	523.8	528.1	538.8
25°	693.4	650.5	614.0	592.5	549.6	504.5	472.3	463.7	463.7	470.1	472.3
27.5°	635.4	581.8	549.6	519.5	480.9	442.2	414.3	407.9	403.6	407.9	418.6
30°	594.6	541.0	500.2	455.1	425.1	388.6	364.9	356.4	354.2	356.4	364.9
32.5°	508.8	476.6	444.4	403.6	367.1	343.5	317.7	302.7	302.7	307.0	315.6
35°	384.3	367.1	364.9	354.2	324.2	298.4	268.3	253.3	253.3	261.9	266.2
37.5°	339.2	307.0	302.7	298.4	285.5	251.2	223.3	210.4	208.2	214.7	223.3
40°	309.1	272.6	253.3	249.0	251.2	212.5	182.5	169.6	169.6	171.7	180.3
42.5°	285.5	242.6	208.2	203.9	212.5	178.2	148.1	135.2	135.2	135.2	146.0
45°	266.2	216.8	176.0	154.6	167.4	146.0	120.2	107.3	103.0	107.3	111.6
47.5°	253.3	197.5	154.6	124.5	124.5	115.9	96.6	81.6	77.3	79.4	85.9
50°	242.6	180.3	131.0	100.9	90.2	92.3	73.0	62.3	58.0	58.0	64.4
52.5°	225.4	163.2	113.8	85.9	68.7	62.3	53.7	45.1	42.9	45.1	49.4
55°	203.9	148.1	98.7	70.8	53.7	42.9	38.6	32.2	30.1	32.2	38.6
57.5°	180.3	124.5	79.4	55.8	36.5	27.9	25.8	21.5	17.2	19.3	23.6
59°	165.3	111.6	68.7	45.1	27.9	19.3	19.3	15.0	10.7	12.9	19.3
60°	158.9	103.0	58.0	38.6	23.6	15.0	15.0	10.7	6.4	8.6	15.0
62.5°	135.2	85.9	45.1	23.6	10.7	2.1	6.4	2.1	0.0	2.1	6.4
65°	113.8	68.7	30.1	10.7	0.0	0.0	0.0	0.0	0.0	0.0	2.1
67.5°	94.5	51.5	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	75.1	34.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	51.5	19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	32.2	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.9	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: P459163
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5	9443.5
2.5°	7951.5	8258.5	8447.4	8803.8	9168.7	9449.9	9802.0	10117.6	10248.5	10317.2
5°	6133.2	6560.4	6923.2	7466.3	7970.8	8584.8	9207.3	9941.5	10222.7	10295.7
7.5°	4304.2	4740.0	5120.0	5748.9	6468.1	7290.3	8222.0	9153.7	9563.7	9679.6
10°	3108.5	3574.3	4038.0	4667.0	5338.9	6229.8	7200.1	8352.9	8825.2	8915.4
12.5°	1962.1	2462.3	3215.8	3992.9	4703.5	5420.5	6435.9	7689.6	8211.3	8376.6
15°	1137.8	1511.3	2080.2	3093.4	3997.2	4946.1	6053.8	7440.6	8024.5	8194.1
17.5°	762.1	890.9	1281.6	2056.6	3250.2	4508.1	5957.2	7644.5	8290.7	8507.5
20°	641.9	699.8	837.2	1253.7	2503.1	4117.4	5982.9	8198.4	9046.3	9316.8
22.5°	564.6	618.3	706.3	901.6	1747.4	3632.3	6105.3	8990.5	10085.3	10431.0
25°	498.0	551.7	629.0	747.1	1174.3	3072.0	6373.6	10149.8	11461.4	11841.4
27.5°	442.2	491.6	558.2	659.0	903.8	2447.3	6611.9	11278.9	12717.2	13026.4
30°	390.7	431.5	495.9	573.2	751.4	1887.0	6732.2	12266.4	13631.8	13975.2
32.5°	339.2	377.8	440.1	502.3	618.3	1438.3	6648.4	12992.0	14520.5	14739.5
35°	289.8	330.6	382.1	440.1	534.5	1161.4	6229.8	13807.8	15441.4	15613.2
37.5°	249.0	283.4	337.0	382.1	483.0	929.5	5723.2	14542.0	16474.0	16720.9
40°	210.4	244.7	298.4	339.2	444.4	732.0	5265.9	15357.7	17562.4	17867.3
42.5°	171.7	212.5	259.8	326.3	382.1	558.2	4712.1	16018.9	18380.3	18762.4
45°	137.4	182.5	234.0	324.2	332.7	425.1	4177.5	16534.1	19103.8	19447.3
47.5°	109.5	154.6	225.4	302.7	272.6	337.0	3872.7	17073.0	19704.9	19979.6
50°	88.0	128.8	236.1	266.2	227.6	285.5	3864.1	17674.0	20016.1	20198.6
52.5°	70.8	105.2	199.6	203.9	193.2	251.2	4096.0	18350.3	20333.9	20484.1
55°	60.1	88.0	131.0	150.3	173.9	227.6	4269.9	19391.4	21091.6	21233.3
57.5°	47.2	75.1	100.9	120.2	154.6	208.2	4293.5	20194.3	22051.2	22143.5
59°	40.8	64.4	90.2	107.3	141.7	195.4	4196.9	20243.7	22113.5	22261.6
60°	34.3	58.0	79.4	100.9	131.0	184.6	4091.7	19885.2	21881.6	22046.9
62.5°	25.8	45.1	58.0	81.6	107.3	158.9	3593.6	18633.6	20995.0	21111.0
65°	17.2	32.2	42.9	60.1	83.7	137.4	2928.1	17010.7	19625.4	19885.2
67.5°	10.7	23.6	34.3	45.1	68.7	115.9	2086.6	14587.0	17708.4	17875.8
70°	6.4	15.0	25.8	36.5	53.7	92.3	1238.7	11530.1	14733.0	14767.4
72.5°	4.3	10.7	17.2	25.8	42.9	83.7	601.1	7515.7	10757.3	11167.3
75°	2.1	6.4	10.7	19.3	34.3	68.7	287.7	5021.2	7827.0	7945.1
77.5°	0.0	2.1	6.4	12.9	25.8	53.7	167.4	3297.4	5336.8	5459.1
80°	0.0	0.0	4.3	10.7	19.3	34.3	100.9	1944.9	3233.0	3293.1
82.5°	0.0	0.0	2.1	8.6	12.9	25.8	51.5	854.4	2116.7	2138.1
85°	0.0	0.0	2.1	8.6	10.7	17.2	19.3	115.9	940.3	957.4
87.5°	0.0	0.0	2.1	10.7	10.7	10.7	10.7	6.4	79.4	98.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)