

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: P647118

Luminaire Tested: **GALN-SA8C-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-835-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24574.5 lumens
Efficiency: N/A
Efficacy: 57.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

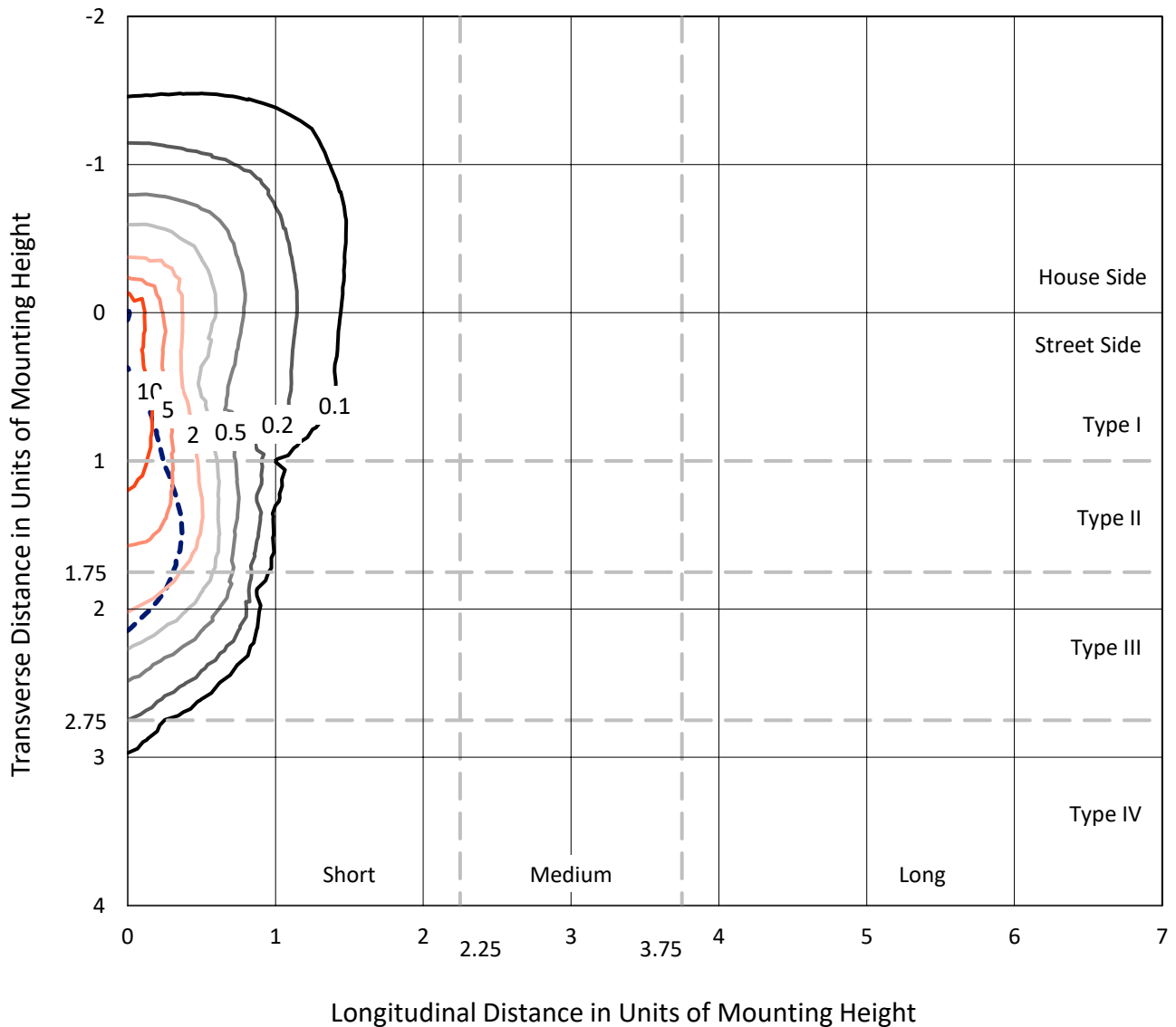
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

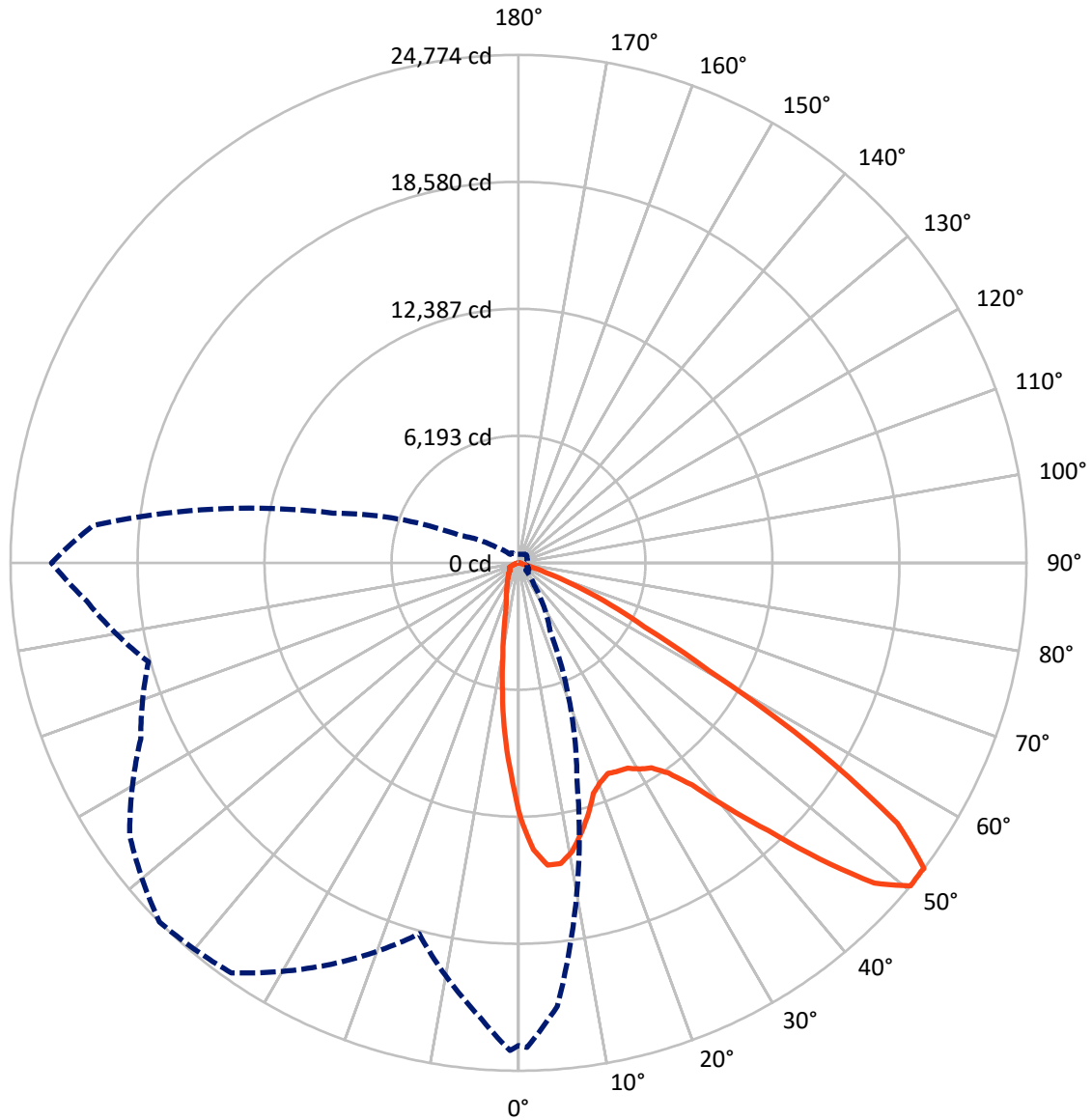
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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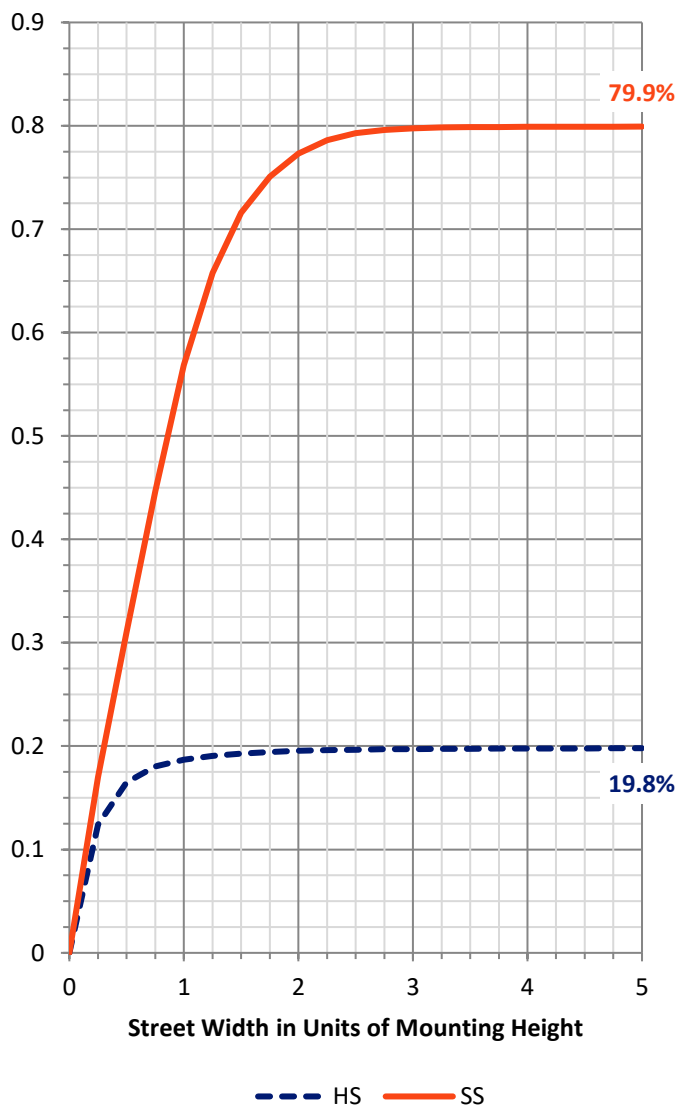
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4922.3	0.0	4922.3
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	19652.2	0.0	19652.2
	% Fixture	80.0	0.0	80.0
Total	Lumens	24574.5	0.0	24574.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	908.4	3.7
10°-20°	1805.4	7.3
20°-30°	2712.2	11.0
30°-40°	4070.9	16.6
40°-50°	5721.4	23.3
50°-60°	6171.5	25.1
60°-70°	2865.4	11.7
70°-80°	269.6	1.1
80°-90°	49.7	0.2
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°	24574.5	100.0
0°-180°	24574.5	100.0

Coefficient of Utilization

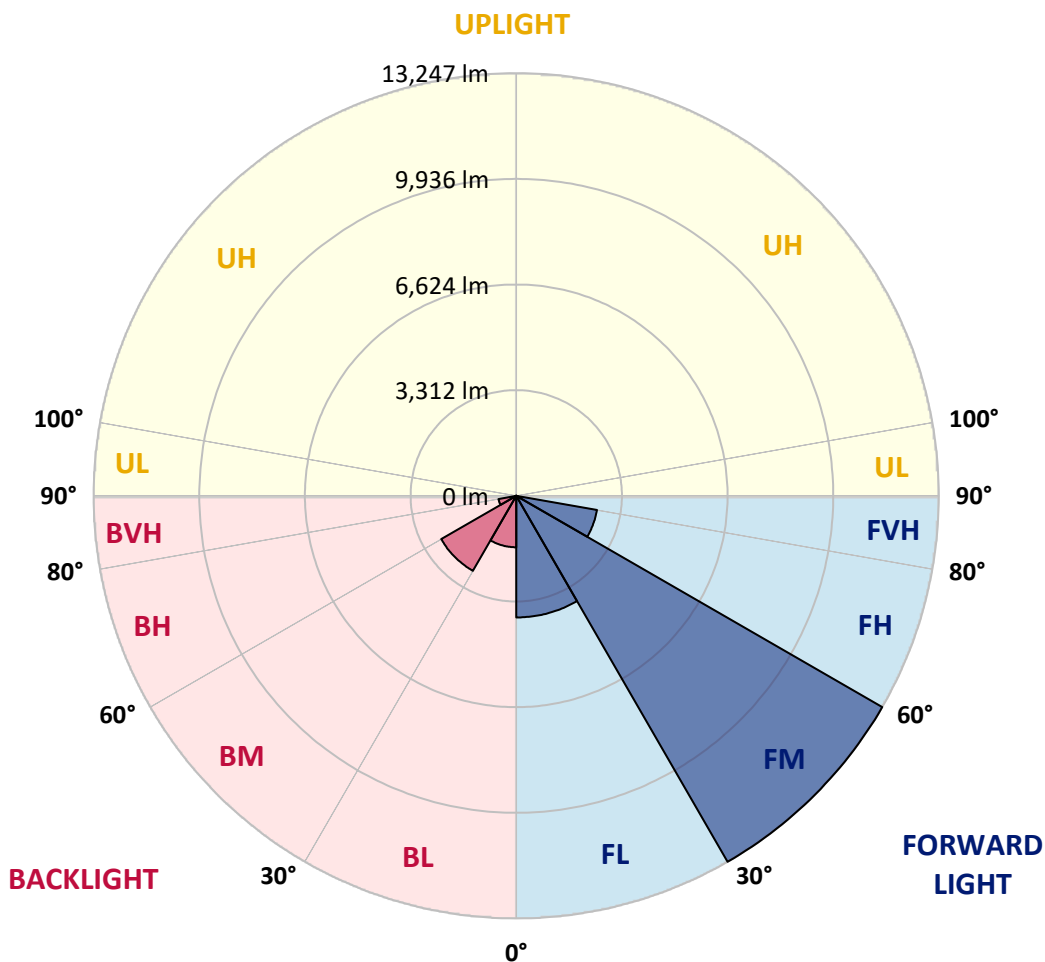


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3812.5	15.5			
FM	(30°-60°)	13247.5	53.9			
FH	(60°-80°)	2569.8	10.5			G2/5000
FVH	(80°-90°)	22.4	0.1			G1/100
BL	(0°-30°)	1613.4	6.6	B3/2500		
BM	(30°-60°)	2716.4	11.1	B3/5000		
BH	(60°-80°)	565.2	2.3	B2/1000		G2/1000
BVH	(80°-90°)	27.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4
2.5°	12954.8	12754.9	12501.4	12291.7	11979.7	11350.7	11180.1	10975.2	10804.6	10575.4	10253.6
5°	11779.8	11716.3	11599.4	10809.5	10239.1	9478.4	8854.3	8591.0	8244.8	7962.1	7757.3
7.5°	10882.6	10629.1	10258.6	9463.8	8552.0	7737.8	7045.4	6640.7	6182.4	6026.4	5748.5
10°	9922.1	9980.6	9434.5	8318.0	7216.0	6557.9	6128.8	5738.8	5324.3	5051.2	4656.3
12.5°	9614.9	9424.7	9005.4	7625.6	6684.6	6070.3	5548.6	5065.9	4627.1	4188.3	3808.0
15°	9814.8	9522.3	8937.2	7479.4	6275.0	5509.6	4856.2	4202.9	3798.2	3237.5	2842.5
17.5°	10531.6	10297.5	9512.5	7635.3	6065.4	4973.2	4002.9	3330.1	2710.9	2203.8	2003.9
20°	11726.1	11394.5	10409.7	7835.3	5753.3	4324.7	3247.3	2418.4	1833.2	1618.8	1506.6
22.5°	12896.3	12715.9	11472.6	8220.5	5475.4	3749.4	2437.9	1628.5	1370.1	1331.1	1258.0
25°	15124.5	14583.3	13096.2	8917.7	5260.9	3208.3	1838.2	1311.6	1160.4	1131.2	1140.9
27.5°	16450.7	15997.2	14597.9	9380.9	5022.0	2793.8	1555.4	1204.3	1101.9	1038.5	1014.1
30°	17723.3	17196.6	15343.9	9653.9	4510.1	2355.0	1379.8	1155.6	1131.2	1038.5	1009.3
32.5°	18703.3	18186.4	16421.5	10063.5	4300.4	2072.2	1136.1	902.0	838.6	828.9	916.7
35°	20205.0	19654.0	17343.0	10287.8	4139.5	1925.9	984.9	804.5	731.3	702.1	707.0
37.5°	21604.3	21228.9	18196.2	10375.5	3968.9	1882.0	882.5	721.6	658.2	638.7	633.8
40°	22774.5	21935.9	19005.6	10468.2	3895.7	1799.2	819.1	658.2	614.3	585.1	585.1
42.5°	23310.8	22457.6	19912.5	10414.5	3876.2	1667.5	819.1	604.6	570.5	541.2	536.4
45°	23193.8	22847.6	20317.1	10390.2	3876.2	1535.9	746.0	590.0	541.2	502.2	492.4
47.5°	23496.1	23042.7	20824.2	10492.6	3798.2	1443.2	629.0	619.2	511.9	463.2	453.4
50°	23549.7	23637.5	21706.7	11024.0	3627.6	1326.2	492.4	609.5	492.4	419.3	409.6
52°	23900.8	23354.7	21974.9	11306.8	3447.2	1238.5	414.4	521.7	472.9	390.1	380.3
52.5°	23418.1	23774.0	22038.2	11409.2	3466.7	1179.9	399.8	511.9	463.2	390.1	365.7
55°	22876.9	23218.2	21779.8	11628.6	3179.0	926.4	312.0	370.6	419.3	341.3	326.7
57.5°	19883.2	20229.4	18927.5	10648.6	2589.0	653.3	258.4	277.9	370.6	317.0	302.3
60°	17674.5	17425.8	15885.1	8883.6	1838.2	365.7	204.8	214.5	404.7	292.5	287.7
62.5°	16153.3	15621.8	13276.6	6860.2	1121.4	243.7	160.9	165.8	312.0	273.0	273.0
65°	11950.4	11355.5	8820.2	4149.3	550.9	170.6	121.9	131.6	195.0	234.0	234.0
67.5°	6821.1	6592.0	4261.4	1872.3	229.2	107.3	92.6	102.4	151.1	190.2	180.4
70°	3135.1	2813.3	1638.3	394.9	107.3	73.1	73.1	82.9	121.9	141.4	131.6
72.5°	916.7	867.9	399.8	63.4	43.8	43.8	48.8	63.4	92.6	107.3	97.5
75°	68.3	43.8	29.3	19.5	19.5	29.3	39.0	63.4	92.6	102.4	82.9
77.5°	4.9	9.8	4.9	4.9	14.6	29.3	43.8	78.0	121.9	126.8	92.6
80°	4.9	4.9	0.0	4.9	14.6	29.3	48.8	87.8	136.6	146.3	78.0
82.5°	0.0	0.0	0.0	4.9	19.5	39.0	58.5	92.6	126.8	156.1	82.9
85°	0.0	0.0	0.0	4.9	29.3	53.6	68.3	24.4	14.6	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4
2.5°	10482.8	10356.0	10307.3	10351.2	10336.5	10321.9	10590.1	10531.6	10521.8	10609.6	10590.1
5°	7869.4	7645.1	8259.5	8010.8	8269.3	8425.2	8454.5	8469.2	8649.6	8459.4	8708.1
7.5°	5607.1	5665.6	5660.7	5826.5	6123.9	6387.2	6543.2	6421.3	6411.6	6387.2	6279.9
10°	4480.8	4378.4	4358.9	4319.9	4412.5	4636.8	4827.0	4675.8	4568.6	4714.8	4670.9
12.5°	3661.7	3520.3	3442.2	3286.3	3291.1	3442.2	3442.2	3442.2	3549.5	3632.4	3695.8
15°	2808.4	2691.4	2691.4	2535.4	2501.2	2506.1	2584.1	2593.9	2764.5	2813.3	2837.7
17.5°	1964.9	1901.5	1974.6	2038.1	1999.1	2008.8	2038.1	2047.8	2072.2	2052.7	2101.4
20°	1511.5	1501.7	1521.2	1633.3	1716.3	1765.0	1730.9	1682.1	1652.8	1584.6	1584.6
22.5°	1282.3	1301.8	1336.0	1428.6	1535.9	1565.1	1526.1	1413.9	1326.2	1316.5	1321.3
25°	1140.9	1160.4	1214.0	1272.5	1331.1	1379.8	1340.8	1258.0	1209.2	1165.3	1165.3
27.5°	1053.1	1062.9	1092.1	1136.1	1184.8	1223.8	1209.2	1165.3	1111.7	1092.1	1048.3
30°	984.9	999.5	1033.6	1043.4	1087.3	1106.8	1082.4	1072.6	1038.5	1014.1	999.5
32.5°	950.8	945.9	970.3	980.0	984.9	999.5	970.3	984.9	980.0	941.0	926.4
35°	716.8	755.8	819.1	872.7	887.4	906.9	902.0	882.5	828.9	785.0	731.3
37.5°	643.6	668.0	702.1	746.0	804.5	828.9	819.1	770.4	707.0	677.7	668.0
40°	594.8	609.5	638.7	668.0	726.5	770.4	736.3	692.3	643.6	619.2	604.6
42.5°	550.9	555.9	570.5	599.7	643.6	711.8	653.3	594.8	575.3	560.7	550.9
45°	502.2	502.2	521.7	536.4	585.1	648.5	590.0	536.4	526.6	516.9	511.9
47.5°	463.2	468.1	477.8	497.4	536.4	580.2	541.2	497.4	472.9	468.1	458.3
50°	414.4	419.3	438.8	458.3	507.1	531.4	507.1	458.3	433.9	419.3	419.3
52°	375.4	390.1	409.6	448.6	482.7	521.7	492.4	438.8	409.6	394.9	385.2
52.5°	370.6	380.3	399.8	443.7	482.7	516.9	487.6	433.9	399.8	390.1	380.3
55°	331.5	346.2	380.3	433.9	477.8	516.9	477.8	429.1	380.3	356.0	346.2
57.5°	317.0	326.7	370.6	438.8	472.9	516.9	477.8	429.1	380.3	336.5	326.7
60°	302.3	321.8	370.6	424.2	468.1	521.7	482.7	424.2	370.6	317.0	317.0
62.5°	287.7	302.3	365.7	414.4	448.6	502.2	463.2	414.4	356.0	302.3	297.4
65°	248.7	273.0	321.8	346.2	385.2	433.9	394.9	360.8	312.0	268.2	263.3
67.5°	190.2	199.9	238.9	268.2	292.5	336.5	317.0	273.0	238.9	204.8	204.8
70°	131.6	141.4	170.6	185.3	209.7	234.0	219.4	185.3	160.9	141.4	136.6
72.5°	92.6	97.5	107.3	117.0	126.8	136.6	131.6	107.3	92.6	87.8	82.9
75°	73.1	82.9	87.8	82.9	78.0	73.1	73.1	63.4	53.6	48.8	48.8
77.5°	73.1	78.0	73.1	63.4	53.6	48.8	43.8	39.0	29.3	24.4	29.3
80°	63.4	63.4	63.4	53.6	48.8	43.8	39.0	34.1	29.3	24.4	24.4
82.5°	68.3	68.3	63.4	53.6	53.6	43.8	43.8	39.0	34.1	24.4	24.4
85°	0.0	0.0	0.0	9.8	24.4	43.8	43.8	39.0	34.1	29.3	29.3
87.5°	0.0	0.0	0.0	0.0	4.9	9.8	19.5	24.4	29.3	29.3	29.3
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°	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4
2.5°	10765.6	10950.9	11301.9	11653.0	11867.5	12121.1	12579.4	12823.1	13140.1	13296.1	13603.3
5°	8673.9	9112.7	9268.8	9668.6	10097.6	10526.7	11209.3	11960.2	12584.2	13013.3	13569.2
7.5°	6328.7	6431.1	7035.6	7303.8	8005.9	8786.0	9717.3	10663.2	11453.1	12155.2	12579.4
10°	4744.0	5119.5	5499.8	6011.8	6577.4	7381.8	8274.1	9317.5	10341.4	11043.5	11579.9
12.5°	3812.8	4110.2	4617.3	5168.3	5865.5	6397.0	7294.1	8327.8	9653.9	10341.4	11048.4
15°	2886.5	3266.8	3842.1	4412.5	5148.8	5709.5	6616.4	7918.2	9624.7	10570.6	11180.1
17.5°	2140.4	2398.9	2915.7	3554.4	4305.2	5095.1	6319.0	7874.3	9951.4	11077.6	11706.6
20°	1638.3	1726.0	2052.7	2623.1	3437.4	4471.0	5836.2	8064.4	10916.7	12311.2	12949.9
22.5°	1326.2	1365.2	1492.0	1886.9	2676.8	3924.9	5607.1	8196.1	12004.0	13788.6	14641.8
25°	1155.6	1145.8	1228.7	1399.3	2091.7	3413.0	5314.5	8693.4	13335.1	15524.3	16289.8
27.5°	1053.1	1053.1	1092.1	1214.0	1735.8	3081.4	5129.3	9049.4	14675.9	17050.4	17464.8
30°	999.5	1009.3	1121.4	1160.4	1443.2	2686.6	4822.1	9410.2	15958.2	18025.5	18596.0
32.5°	926.4	887.4	863.0	960.5	1214.0	2330.6	4514.9	9561.3	16996.7	19220.1	19707.6
35°	711.8	692.3	721.6	794.7	1043.4	2028.3	4173.6	9731.9	18191.3	20604.8	20702.3
37.5°	643.6	638.7	658.2	721.6	877.7	1765.0	3929.8	9688.1	19103.1	21750.6	21487.3
40°	594.8	594.8	609.5	663.1	785.0	1579.7	3676.3	9649.1	19985.6	23037.8	22267.4
42.5°	555.9	555.9	580.2	614.3	746.0	1457.9	3486.2	9595.4	20726.7	23827.6	22725.7
45°	502.2	516.9	555.9	590.0	755.8	1374.9	3344.7	9390.7	20980.3	23817.9	22506.3
47.5°	463.2	482.7	521.7	570.5	682.6	1350.6	3247.3	9210.3	20892.5	23232.8	21818.8
50°	419.3	443.7	497.4	580.2	580.2	1301.8	3144.8	9371.1	20829.1	22779.3	21160.7
52°	390.1	409.6	477.8	565.6	507.1	1199.4	3081.4	9683.2	21087.5	22720.9	20868.1
52.5°	385.2	399.8	463.2	555.9	482.7	1179.9	3037.6	9756.3	21170.4	22574.6	21068.0
55°	341.3	360.8	424.2	433.9	394.9	970.3	2896.2	9922.1	20760.9	22286.9	20877.8
57.5°	321.8	331.5	375.4	356.0	341.3	731.3	2491.5	9663.7	18440.0	19795.4	19424.9
60°	297.4	307.2	351.0	277.9	287.7	511.9	1872.3	8391.1	14807.5	16494.6	17162.6
62.5°	287.7	282.8	331.5	224.3	243.7	370.6	1321.3	6821.1	11409.2	13578.9	14734.4
65°	253.5	248.7	238.9	190.2	209.7	287.7	789.9	4451.5	8040.1	10273.1	10907.0
67.5°	195.0	204.8	175.5	151.1	175.5	224.3	438.8	1994.1	4217.5	6162.9	6674.8
70°	136.6	146.3	141.4	131.6	156.1	185.3	253.5	682.6	1745.5	3237.5	3569.0
72.5°	82.9	102.4	107.3	112.1	136.6	160.9	180.4	219.4	463.2	1145.8	1423.7
75°	48.8	68.3	82.9	97.5	112.1	136.6	151.1	156.1	160.9	214.5	346.2
77.5°	34.1	48.8	73.1	92.6	112.1	136.6	160.9	170.6	160.9	151.1	160.9
80°	29.3	48.8	68.3	87.8	117.0	141.4	160.9	160.9	156.1	136.6	146.3
82.5°	29.3	48.8	73.1	92.6	112.1	136.6	156.1	160.9	146.3	136.6	141.4
85°	34.1	53.6	78.0	97.5	121.9	112.1	102.4	82.9	78.0	63.4	68.3
87.5°	34.1	48.8	48.8	53.6	58.5	58.5	58.5	53.6	43.8	39.0	39.0
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: P647118

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4	12462.4
2.5°	13617.9	14007.9	13993.3	14003.1	13944.6	13549.7	13359.5	12876.7	13013.3	12954.8
5°	14139.6	14524.8	14856.3	14817.3	14368.8	13832.4	13037.7	12286.8	12082.0	11779.8
7.5°	13617.9	14544.3	14851.5	14807.5	14144.5	13457.0	12189.3	11438.5	11082.5	10882.6
10°	12789.1	13861.7	14242.0	14320.0	13871.4	12828.0	11662.7	10458.5	10268.3	9922.1
12.5°	12316.0	13096.2	13330.3	13539.9	13383.8	12603.7	11262.9	10107.4	9844.1	9614.9
15°	11930.9	12394.1	12491.6	12730.5	12823.1	12403.8	11472.6	10487.7	9839.2	9814.8
17.5°	12286.8	12096.6	11740.8	11813.9	12106.4	12408.7	12013.8	11238.6	10609.6	10531.6
20°	12876.7	12038.2	11233.7	11414.1	11657.9	12584.2	12832.9	12286.8	11926.0	11726.1
22.5°	13554.5	12140.6	11072.8	11160.5	11623.7	12979.2	14159.1	13856.8	13183.9	12896.3
25°	14807.5	12423.3	11199.6	11258.1	11891.9	13530.2	15358.5	15582.8	15183.0	15124.5
27.5°	16031.4	13154.7	11477.4	11345.8	12028.4	14066.4	16085.0	17289.3	16587.2	16450.7
30°	16655.5	13749.6	11891.9	11667.6	12594.0	14393.1	16523.8	18401.0	17786.6	17723.3
32.5°	17611.1	14290.8	12213.7	11926.0	12910.9	14797.8	17343.0	19615.0	19020.2	18703.3
35°	18011.0	14880.7	12920.7	12584.2	13817.8	15363.4	17762.3	20697.4	20512.2	20205.0
37.5°	18781.3	15514.5	13754.4	13734.9	14914.8	16099.7	18518.0	22169.9	22135.8	21604.3
40°	18844.7	16206.9	15070.9	15685.2	16611.6	17382.0	19181.1	22579.4	23135.3	22774.5
42.5°	18942.2	17421.0	17347.8	17854.9	18649.7	18483.9	19205.5	22677.0	23525.4	23310.8
45°	18986.0	18635.0	19663.8	20599.9	20931.5	19927.1	18976.3	22491.7	23730.1	23193.8
47.5°	18635.0	19678.4	21536.1	23345.0	23442.5	20814.5	18878.8	22301.6	23852.1	23496.1
50°	18683.8	20331.8	23154.8	24773.6	24417.6	21599.4	18727.6	22184.5	23788.6	23549.7
52°	18566.7	20346.4	23384.0	24744.3	24495.6	21165.5	18469.2	21736.0	23730.1	23900.8
52.5°	18698.4	20258.6	23145.1	24763.8	24442.0	21380.0	18435.1	21984.6	23764.3	23418.1
55°	18244.9	19215.2	21745.7	22433.2	22384.4	19405.4	17386.8	21160.7	22872.0	22876.9
57.5°	16489.7	16655.5	17055.3	17040.7	16816.3	15256.1	14871.0	19459.0	20390.3	19883.2
60°	14529.7	12194.2	11116.6	10677.8	10429.2	10175.6	13154.7	17801.3	17889.0	17674.5
62.5°	12555.0	8454.5	7021.0	6899.2	6957.7	7884.0	12715.9	17143.0	16616.4	16153.3
65°	10131.8	6162.9	5100.0	4939.1	5509.6	6509.1	10292.6	13144.9	12335.5	11950.4
67.5°	6362.8	4495.4	3447.2	3144.8	3832.3	4480.8	6762.6	8259.5	7352.6	6821.1
70°	3773.8	2511.0	1560.2	1399.3	1574.8	2389.1	3788.5	4120.0	3408.2	3135.1
72.5°	1487.1	921.5	433.9	370.6	385.2	838.6	1394.4	1360.3	1028.8	916.7
75°	399.8	277.9	151.1	121.9	102.4	156.1	224.3	146.3	53.6	68.3
77.5°	185.3	165.8	131.6	102.4	78.0	58.5	29.3	9.8	9.8	4.9
80°	160.9	141.4	121.9	102.4	78.0	48.8	24.4	4.9	4.9	4.9
82.5°	151.1	131.6	112.1	92.6	73.1	48.8	24.4	4.9	0.0	0.0
85°	63.4	82.9	92.6	87.8	78.0	48.8	24.4	4.9	0.0	0.0
87.5°	34.1	29.3	24.4	19.5	14.6	9.8	9.8	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

(END OF REPORT)