

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: P459250

Luminaire Tested: **GALN-SA7B-735-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459250
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-SA7B-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 26514 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

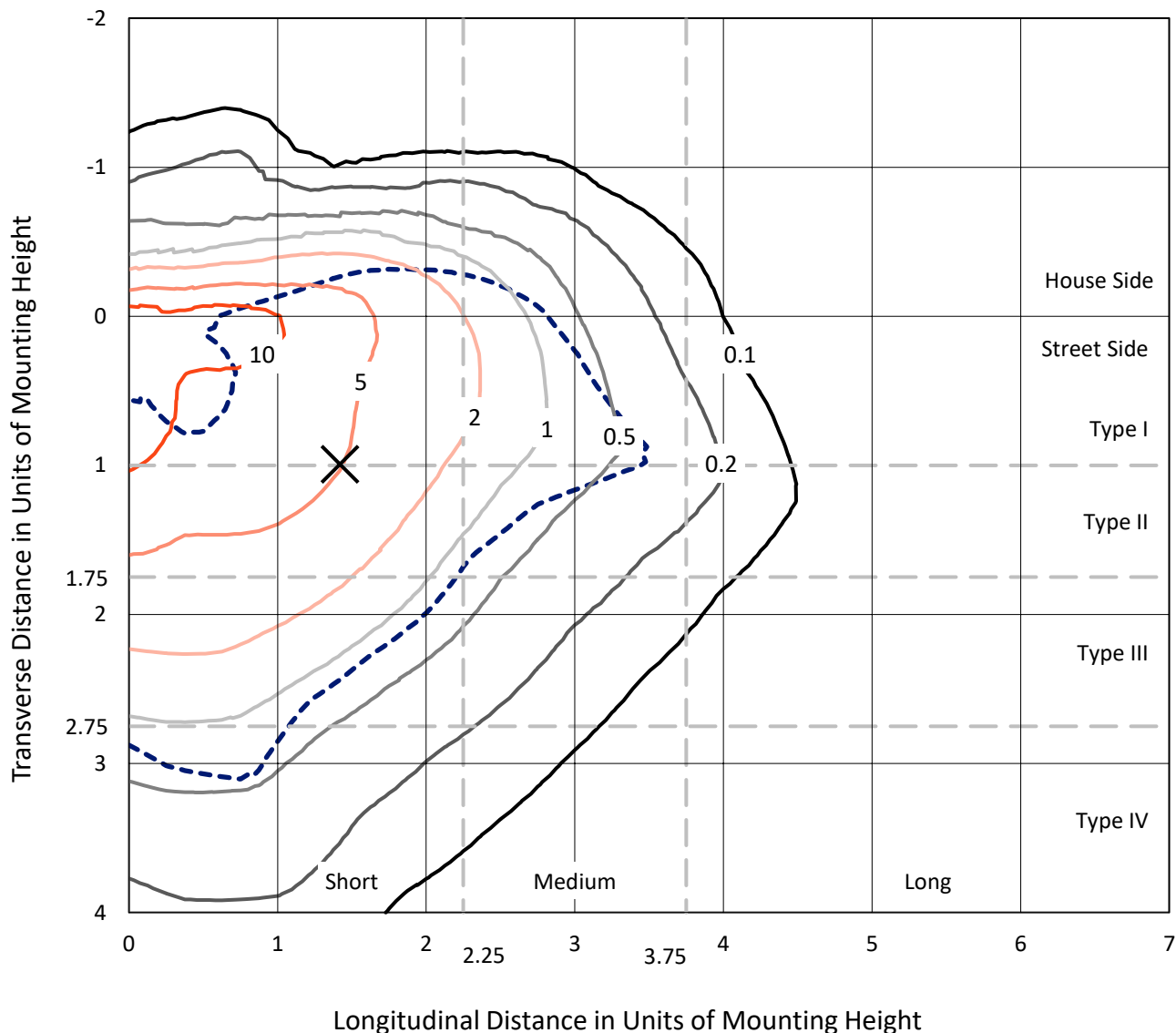
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

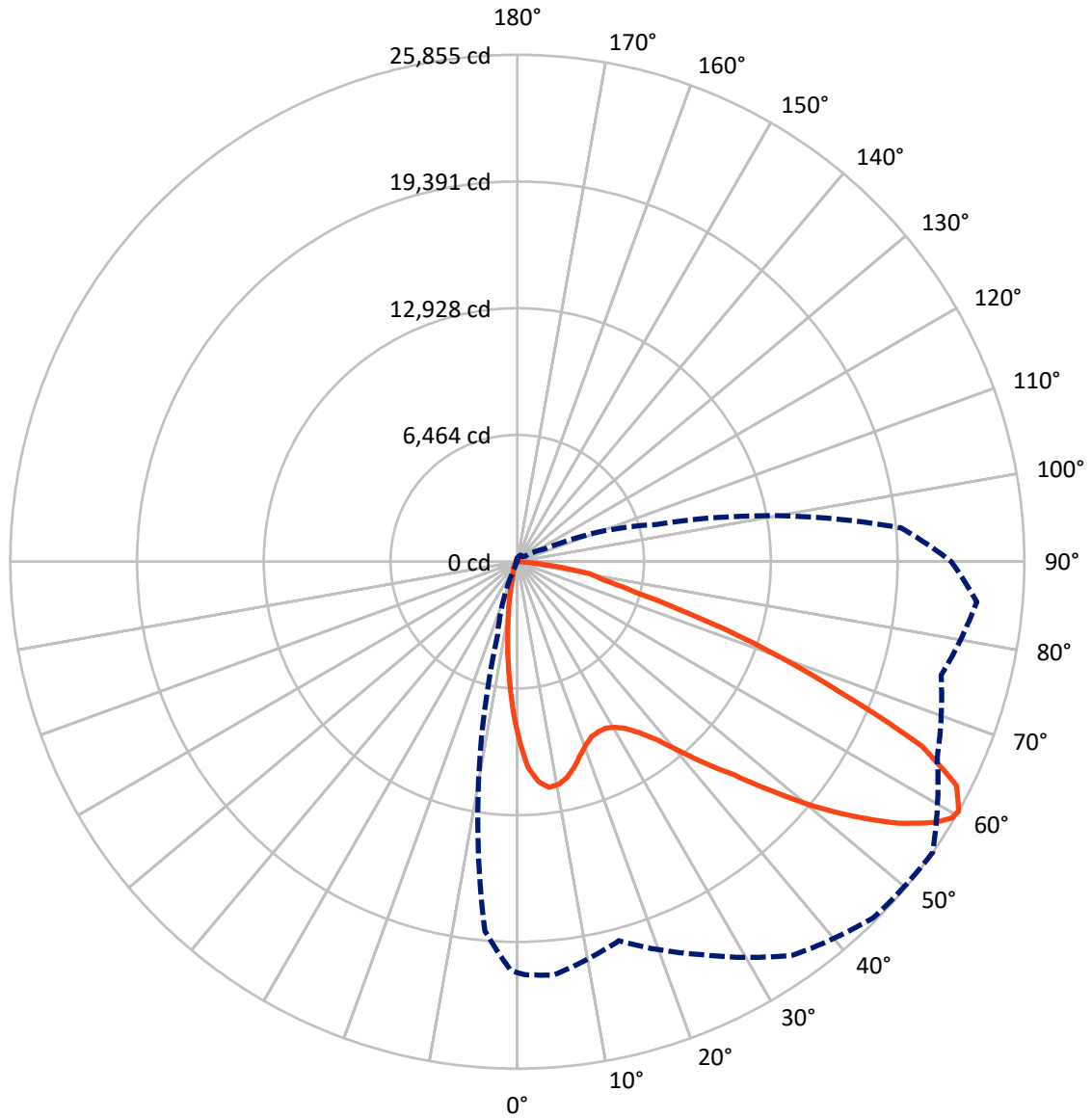
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 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	3934.9	0.0	3934.9
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	22579.1	0.0	22579.1
	% Fixture	85.2	0.0	85.2
Total	Lumens	26514.0	0.0	26514.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	664.8	2.5
10°-20°	1309.2	4.9
20°-30°	1937.8	7.3
30°-40°	2888.5	10.9
40°-50°	4230.2	16.0
50°-60°	6107.1	23.0
60°-70°	6424.3	24.2
70°-80°	2642.7	10.0
80°-90°	309.5	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°	26514.0	100.0
0°-180°	26514.0	100.0

Coefficient of Utilization



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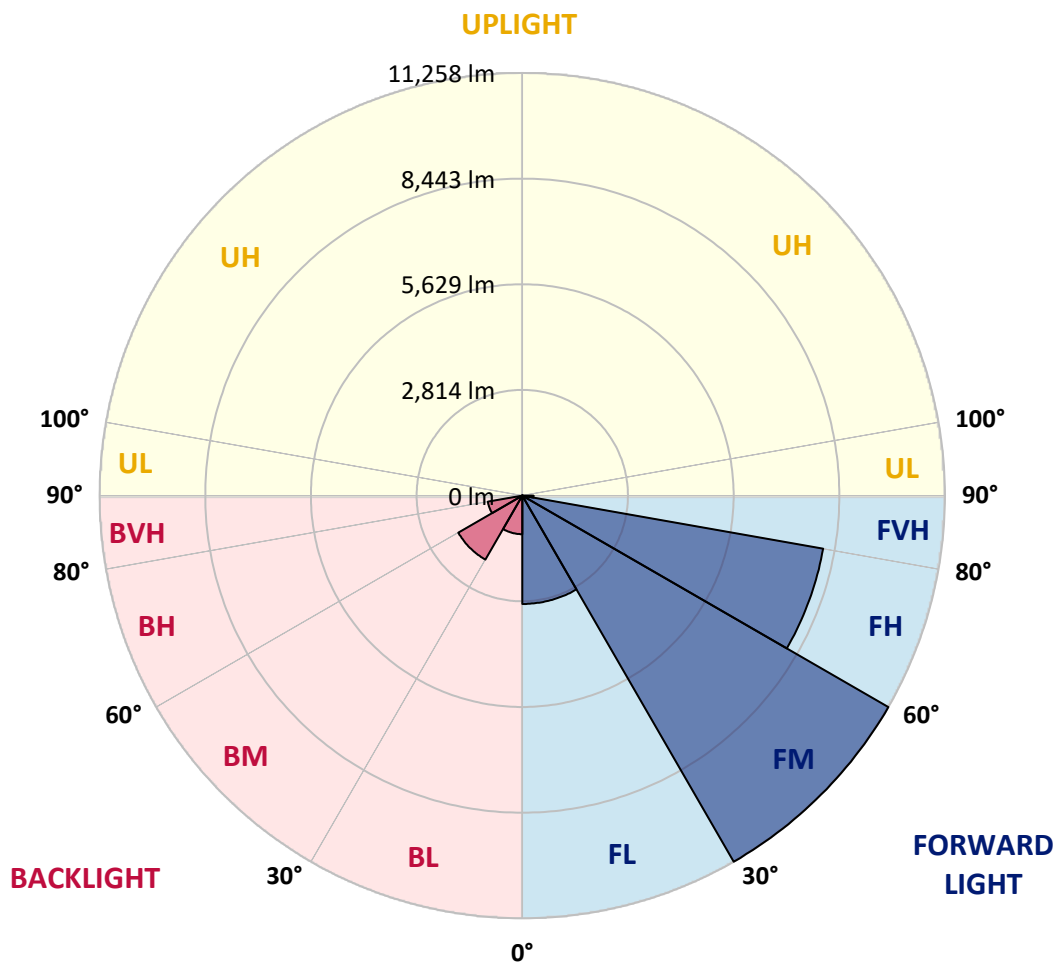
CATALOG NUMBER: GALN-SA7B-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2885.1	10.9			
FM	(30°-60°)	11257.9	42.5			
FH	(60°-80°)	8135.7	30.7			G4/12000
FVH	(80°-90°)	300.4	1.1			G3/500
BL	(0°-30°)	1026.6	3.9	B3/2500		
BM	(30°-60°)	1967.8	7.4	B2/2500		
BH	(60°-80°)	931.4	3.5	B2/1000		G2/1000
BVH	(80°-90°)	9.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6
2.5°	9808.2	9791.9	9936.8	10173.5	10412.3	10536.8	10512.3	10502.1	10304.1	10159.2	9855.1
5°	9787.8	9871.4	10130.6	10771.4	11257.2	11491.9	11561.2	11269.4	10883.7	10324.5	9634.7
7.5°	9202.1	9306.1	9728.6	10730.6	11593.9	12104.1	12085.7	11618.4	10822.5	9957.2	8973.5
10°	8475.5	8598.0	9093.9	10310.2	11430.6	12104.1	12140.8	11549.0	10559.2	9449.0	8414.3
12.5°	7963.3	8108.2	8657.2	9918.4	11010.2	11673.5	11716.3	11287.8	10361.2	9253.1	8110.2
15°	7789.8	7926.5	8483.7	9720.4	10563.3	10920.4	10910.2	10865.3	10283.7	9300.0	8126.5
17.5°	8087.8	8200.0	8828.6	9810.2	10144.9	10108.2	10161.2	10377.6	10300.0	9693.9	8640.8
20°	8857.2	8971.4	9647.0	10085.7	9824.5	9591.9	9616.3	9977.6	10451.0	10434.7	9444.9
22.5°	9916.3	10110.2	10722.5	10620.4	9781.7	9271.4	9220.4	9689.8	10708.2	11287.8	10530.6
25°	11257.2	11453.1	11930.6	11473.5	9991.9	9195.9	9149.0	9602.1	11020.4	12120.4	11753.1
27.5°	12383.7	12532.7	13008.2	12304.1	10302.1	9228.6	9151.0	9614.3	11273.5	12828.6	12783.7
30°	13285.7	13395.9	13675.5	12691.9	10569.4	9371.4	9281.6	9793.9	11385.7	13173.5	13618.4
32.5°	14012.3	14198.0	14285.7	13106.1	10953.1	9640.8	9487.8	10138.8	11659.2	13600.0	14493.9
35°	14842.9	15057.2	14944.9	13502.1	11459.2	10061.2	9873.5	10698.0	12073.5	13993.9	15510.2
37.5°	15895.9	16142.9	15704.1	13918.4	11993.9	10693.9	10606.1	11483.7	12702.1	14557.2	16600.0
40°	16985.7	17128.6	16440.8	14424.5	12651.0	11614.3	11698.0	12651.0	13524.5	15232.7	17759.2
42.5°	17836.8	17971.5	17198.0	14849.0	13322.5	12706.1	13055.1	14059.2	14467.4	15924.5	18624.5
45°	18487.8	18602.1	17722.5	15312.3	14228.6	14287.8	14947.0	15510.2	15412.3	16347.0	19291.9
47.5°	18993.9	19091.9	18126.6	15810.2	15585.7	16222.5	17230.6	17469.4	16391.9	16804.1	19896.0
50°	19202.1	19230.6	18253.1	16444.9	17126.6	18687.8	19738.8	19593.9	17514.3	17312.3	20538.8
52.5°	19473.5	19467.4	18614.3	17049.0	18575.5	20891.9	21940.9	21612.3	18783.7	18073.5	21261.3
55°	20185.8	20193.9	19387.8	17906.2	19810.2	22671.5	23793.9	23555.1	20122.5	19359.2	22104.1
57.5°	21051.1	21081.7	20487.8	18908.2	20989.8	23961.3	25177.6	25085.8	21932.7	20789.8	22900.0
59°	21163.3	21224.5	21008.2	19614.3	21689.8	24357.2	25651.1	25740.9	22902.1	21732.7	23330.7
60°	20959.2	21061.3	21159.2	20014.3	22100.0	24500.0	25679.6	25855.1	23630.7	22373.5	23526.6
62.5°	20069.4	20230.6	20722.5	21244.9	22612.3	24055.1	24767.4	25134.7	24532.7	24057.2	23544.9
65°	18904.1	18987.8	19698.0	21463.3	21618.4	21977.6	22198.0	22669.4	23449.0	24706.2	22702.1
67.5°	16993.9	17240.8	18110.2	20196.0	18685.7	18261.3	18206.2	17736.8	19761.3	23159.2	20624.5
70°	14038.8	14149.0	15220.4	16557.2	14102.1	13449.0	13710.2	13534.7	15318.4	19936.8	16600.0
72.5°	10616.3	10865.3	11912.3	13198.0	9595.9	8749.0	9469.4	9404.1	11506.1	16022.5	11404.1
75°	7553.1	7714.3	9049.0	10328.6	6720.4	5693.9	5953.1	6195.9	8032.7	12651.0	6738.8
77.5°	5189.8	5328.6	6330.6	6830.6	4902.0	4695.9	4295.9	4530.6	5263.3	7506.1	3667.4
80°	3130.6	3124.5	3783.7	3906.1	3414.3	3965.3	3326.5	3734.7	3181.6	3212.3	1420.4
82.5°	2032.7	2012.2	2314.3	2522.5	1900.0	1998.0	1340.8	1932.7	2073.5	895.9	449.0
85°	910.2	949.0	1112.2	1467.3	832.7	442.9	273.5	593.9	883.7	451.0	0.0
87.5°	93.9	73.5	195.9	357.1	114.3	12.2	40.8	20.4	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°	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6
2.5°	9714.3	9595.9	9242.9	8912.3	8628.6	8281.6	8057.2	7704.1	7489.8	7424.5	7434.7
5°	9324.5	8983.7	8312.3	7775.5	7177.6	6836.7	6318.4	5820.4	5551.0	5451.0	5406.1
7.5°	8508.2	8142.9	7332.7	6489.8	5849.0	5251.0	4865.3	4426.5	4126.5	3879.6	3836.7
10°	7902.1	7422.5	6418.4	5512.3	5006.1	4557.2	4171.4	3732.7	3379.6	3098.0	3020.4
12.5°	7538.8	7002.1	5881.6	5122.5	4642.9	4181.6	3679.6	3171.4	2810.2	2506.1	2365.3
15°	7473.5	6851.0	5730.6	4842.9	4251.0	3693.9	3026.5	2477.6	2106.1	1818.4	1730.6
17.5°	7867.4	7122.5	5708.2	4551.0	3738.8	2949.0	2255.1	1800.0	1381.6	1220.4	1157.1
20°	8569.4	7602.1	5706.1	4212.3	3212.3	2271.4	1583.7	1173.5	1004.1	926.5	889.8
22.5°	9526.5	8255.1	5814.3	3920.4	2665.3	1675.5	1130.6	934.7	836.7	773.5	759.2
25°	10695.9	9222.5	6079.6	3722.5	2246.9	1314.3	932.7	800.0	718.4	689.8	677.6
27.5°	11734.7	10149.0	6371.4	3518.4	1946.9	1163.3	865.3	732.7	667.3	644.9	626.5
30°	12630.6	10989.8	6512.3	3249.0	1706.1	1065.3	877.6	783.7	698.0	630.6	600.0
32.5°	13377.6	11634.7	6604.1	3004.1	1502.0	871.4	693.9	606.1	567.3	542.9	522.4
35°	14312.3	12332.7	6549.0	2865.3	1398.0	793.9	632.7	522.4	457.1	408.2	387.8
37.5°	15291.9	13030.6	6453.1	2751.0	1351.0	736.7	602.0	495.9	424.5	373.5	346.9
40°	16306.2	13677.6	6340.8	2644.9	1308.2	700.0	583.7	473.5	402.0	346.9	318.4
42.5°	17234.7	14308.2	6295.9	2575.5	1238.8	706.1	569.4	463.3	379.6	322.4	298.0
45°	17985.7	14906.1	6357.2	2538.8	1163.3	695.9	573.5	451.0	361.2	306.1	281.6
47.5°	18787.8	15751.0	6555.1	2502.0	1089.8	646.9	604.1	449.0	353.1	295.9	269.4
50°	19720.4	16832.7	7008.2	2412.2	1000.0	593.9	642.9	446.9	342.9	283.7	257.1
52.5°	20963.3	18061.3	7475.5	2255.1	869.4	542.9	614.3	440.8	322.4	269.4	242.9
55°	22079.6	19355.1	7871.4	2069.4	704.1	469.4	553.1	414.3	287.8	244.9	220.4
57.5°	22540.9	20085.8	7859.2	1812.2	563.3	412.2	455.1	379.6	251.0	216.3	195.9
59°	22371.5	19993.9	7595.9	1622.5	514.3	381.6	377.6	375.5	234.7	195.9	179.6
60°	22132.7	19659.2	7312.3	1528.6	483.7	361.2	346.9	371.4	220.4	183.7	167.3
62.5°	21218.4	18271.5	6371.4	1369.4	442.9	306.1	277.6	314.3	195.9	159.2	144.9
65°	19893.9	16138.8	5393.9	1324.5	430.6	253.1	230.6	224.5	167.3	134.7	122.4
67.5°	17310.2	13657.2	4369.4	1293.9	434.7	212.2	202.0	169.4	138.8	112.2	104.1
70°	13859.2	10649.0	3577.6	1259.2	438.8	173.5	169.4	134.7	112.2	93.9	85.7
72.5°	8420.4	6312.3	2816.3	1093.9	426.5	138.8	151.0	102.0	81.6	67.3	63.3
75°	5206.1	4320.4	1746.9	851.0	281.6	102.0	106.1	63.3	55.1	42.9	42.9
77.5°	3016.3	2728.6	624.5	306.1	124.5	61.2	46.9	32.7	30.6	18.4	18.4
80°	1251.0	1002.0	216.3	104.1	67.3	28.6	10.2	2.0	0.0	0.0	0.0
82.5°	365.3	324.5	59.2	46.9	20.4	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°	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6
2.5°	7261.2	7193.9	7163.3	7267.4	7171.4	7293.9	7200.0	7240.8	7361.2	7414.3	7551.0
5°	5434.7	5365.3	5332.7	5489.8	5481.6	5559.2	5551.0	5622.5	5683.7	5546.9	5687.8
7.5°	3785.7	3738.8	3816.3	3938.8	4069.4	4026.5	4026.5	3930.6	3963.3	3942.9	3936.7
10°	2879.6	2718.4	2677.6	2673.5	2722.5	2732.7	2677.6	2544.9	2593.9	2608.2	2693.9
12.5°	2265.3	2140.8	1951.0	1865.3	1842.9	1861.2	1679.6	1563.3	1618.4	1585.7	1669.4
15°	1624.5	1522.5	1410.2	1314.3	1287.8	1251.0	1053.1	914.3	898.0	904.1	918.4
17.5°	1159.2	1089.8	1089.8	987.8	932.7	822.5	722.5	661.2	655.1	661.2	671.4
20°	855.1	818.4	814.3	787.8	726.5	653.1	583.7	571.4	567.3	577.6	581.6
22.5°	736.7	698.0	665.3	663.3	606.1	544.9	512.2	495.9	498.0	502.0	512.2
25°	659.2	618.4	583.7	563.3	522.4	479.6	449.0	440.8	440.8	446.9	449.0
27.5°	604.1	553.1	522.4	493.9	457.1	420.4	393.9	387.8	383.7	387.8	398.0
30°	565.3	514.3	475.5	432.7	404.1	369.4	346.9	338.8	336.7	338.8	346.9
32.5°	483.7	453.1	422.4	383.7	349.0	326.5	302.0	287.8	287.8	291.8	300.0
35°	365.3	349.0	346.9	336.7	308.2	283.7	255.1	240.8	240.8	249.0	253.1
37.5°	322.4	291.8	287.8	283.7	271.4	238.8	212.2	200.0	198.0	204.1	212.2
40°	293.9	259.2	240.8	236.7	238.8	202.0	173.5	161.2	161.2	163.3	171.4
42.5°	271.4	230.6	198.0	193.9	202.0	169.4	140.8	128.6	128.6	128.6	138.8
45°	253.1	206.1	167.3	146.9	159.2	138.8	114.3	102.0	98.0	102.0	106.1
47.5°	240.8	187.8	146.9	118.4	118.4	110.2	91.8	77.6	73.5	75.5	81.6
50°	230.6	171.4	124.5	95.9	85.7	87.8	69.4	59.2	55.1	55.1	61.2
52.5°	214.3	155.1	108.2	81.6	65.3	59.2	51.0	42.9	40.8	42.9	46.9
55°	193.9	140.8	93.9	67.3	51.0	40.8	36.7	30.6	28.6	30.6	36.7
57.5°	171.4	118.4	75.5	53.1	34.7	26.5	24.5	20.4	16.3	18.4	22.4
59°	157.1	106.1	65.3	42.9	26.5	18.4	18.4	14.3	10.2	12.2	18.4
60°	151.0	98.0	55.1	36.7	22.4	14.3	14.3	10.2	6.1	8.2	14.3
62.5°	128.6	81.6	42.9	22.4	10.2	2.0	6.1	2.0	0.0	2.0	6.1
65°	108.2	65.3	28.6	10.2	0.0	0.0	0.0	0.0	0.0	0.0	2.0
67.5°	89.8	49.0	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	71.4	32.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	49.0	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	30.6	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.2	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



REPORT NUMBER: P459250
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6	8977.6
2.5°	7559.2	7851.0	8030.6	8369.4	8716.3	8983.7	9318.4	9618.4	9742.9	9808.2
5°	5830.6	6236.7	6581.6	7098.0	7577.6	8161.2	8753.1	9451.0	9718.4	9787.8
7.5°	4091.8	4506.1	4867.4	5465.3	6149.0	6930.6	7816.3	8702.1	9091.9	9202.1
10°	2955.1	3398.0	3838.8	4436.7	5075.5	5922.5	6844.9	7940.8	8389.8	8475.5
12.5°	1865.3	2340.8	3057.1	3795.9	4471.4	5153.1	6118.4	7310.2	7806.1	7963.3
15°	1081.6	1436.7	1977.6	2940.8	3800.0	4702.0	5755.1	7073.5	7628.6	7789.8
17.5°	724.5	846.9	1218.4	1955.1	3089.8	4285.7	5663.3	7267.4	7881.6	8087.8
20°	610.2	665.3	795.9	1191.8	2379.6	3914.3	5687.8	7793.9	8600.0	8857.2
22.5°	536.7	587.8	671.4	857.1	1661.2	3453.1	5804.1	8547.0	9587.8	9916.3
25°	473.5	524.5	598.0	710.2	1116.3	2920.4	6059.2	9649.0	10895.9	11257.2
27.5°	420.4	467.3	530.6	626.5	859.2	2326.5	6285.7	10722.5	12089.8	12383.7
30°	371.4	410.2	471.4	544.9	714.3	1793.9	6400.0	11661.2	12959.2	13285.7
32.5°	322.4	359.2	418.4	477.6	587.8	1367.3	6320.4	12351.0	13804.1	14012.3
35°	275.5	314.3	363.3	418.4	508.2	1104.1	5922.5	13126.6	14679.6	14842.9
37.5°	236.7	269.4	320.4	363.3	459.2	883.7	5440.8	13824.5	15661.3	15895.9
40°	200.0	232.7	283.7	322.4	422.4	695.9	5006.1	14600.0	16695.9	16985.7
42.5°	163.3	202.0	246.9	310.2	363.3	530.6	4479.6	15228.6	17473.5	17836.8
45°	130.6	173.5	222.4	308.2	316.3	404.1	3971.4	15718.4	18161.3	18487.8
47.5°	104.1	146.9	214.3	287.8	259.2	320.4	3681.6	16230.6	18732.7	18993.9
50°	83.7	122.4	224.5	253.1	216.3	271.4	3673.5	16802.1	19028.6	19202.1
52.5°	67.3	100.0	189.8	193.9	183.7	238.8	3893.9	17444.9	19330.6	19473.5
55°	57.1	83.7	124.5	142.9	165.3	216.3	4059.2	18434.7	20051.1	20185.8
57.5°	44.9	71.4	95.9	114.3	146.9	198.0	4081.6	19198.0	20963.3	21051.1
59°	38.8	61.2	85.7	102.0	134.7	185.7	3989.8	19244.9	21022.5	21163.3
60°	32.7	55.1	75.5	95.9	124.5	175.5	3889.8	18904.1	20802.1	20959.2
62.5°	24.5	42.9	55.1	77.6	102.0	151.0	3416.3	17714.3	19959.2	20069.4
65°	16.3	30.6	40.8	57.1	79.6	130.6	2783.7	16171.5	18657.2	18904.1
67.5°	10.2	22.4	32.7	42.9	65.3	110.2	1983.7	13867.4	16834.7	16993.9
70°	6.1	14.3	24.5	34.7	51.0	87.8	1177.6	10961.2	14006.1	14038.8
72.5°	4.1	10.2	16.3	24.5	40.8	79.6	571.4	7144.9	10226.5	10616.3
75°	2.0	6.1	10.2	18.4	32.7	65.3	273.5	4773.5	7440.8	7553.1
77.5°	0.0	2.0	6.1	12.2	24.5	51.0	159.2	3134.7	5073.5	5189.8
80°	0.0	0.0	4.1	10.2	18.4	32.7	95.9	1849.0	3073.5	3130.6
82.5°	0.0	0.0	2.0	8.2	12.2	24.5	49.0	812.2	2012.2	2032.7
85°	0.0	0.0	2.0	8.2	10.2	16.3	18.4	110.2	893.9	910.2
87.5°	0.0	0.0	2.0	10.2	10.2	10.2	10.2	6.1	75.5	93.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)