

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: P530655

Luminaire Tested: **GALN-SA5D-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530655
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-SA5D-827-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA 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: 15744 lumens
Efficiency: N/A
Efficacy: 51.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

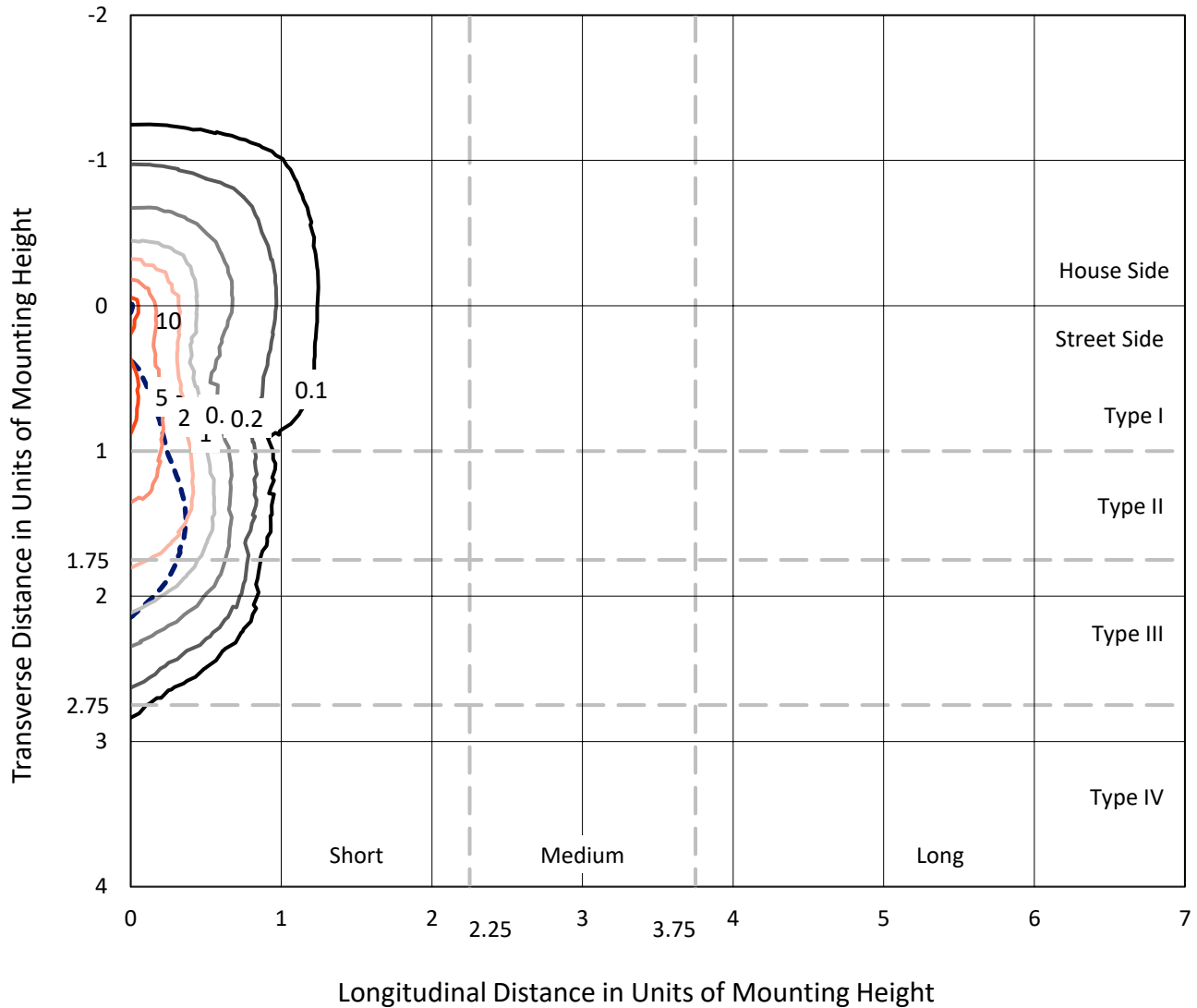
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

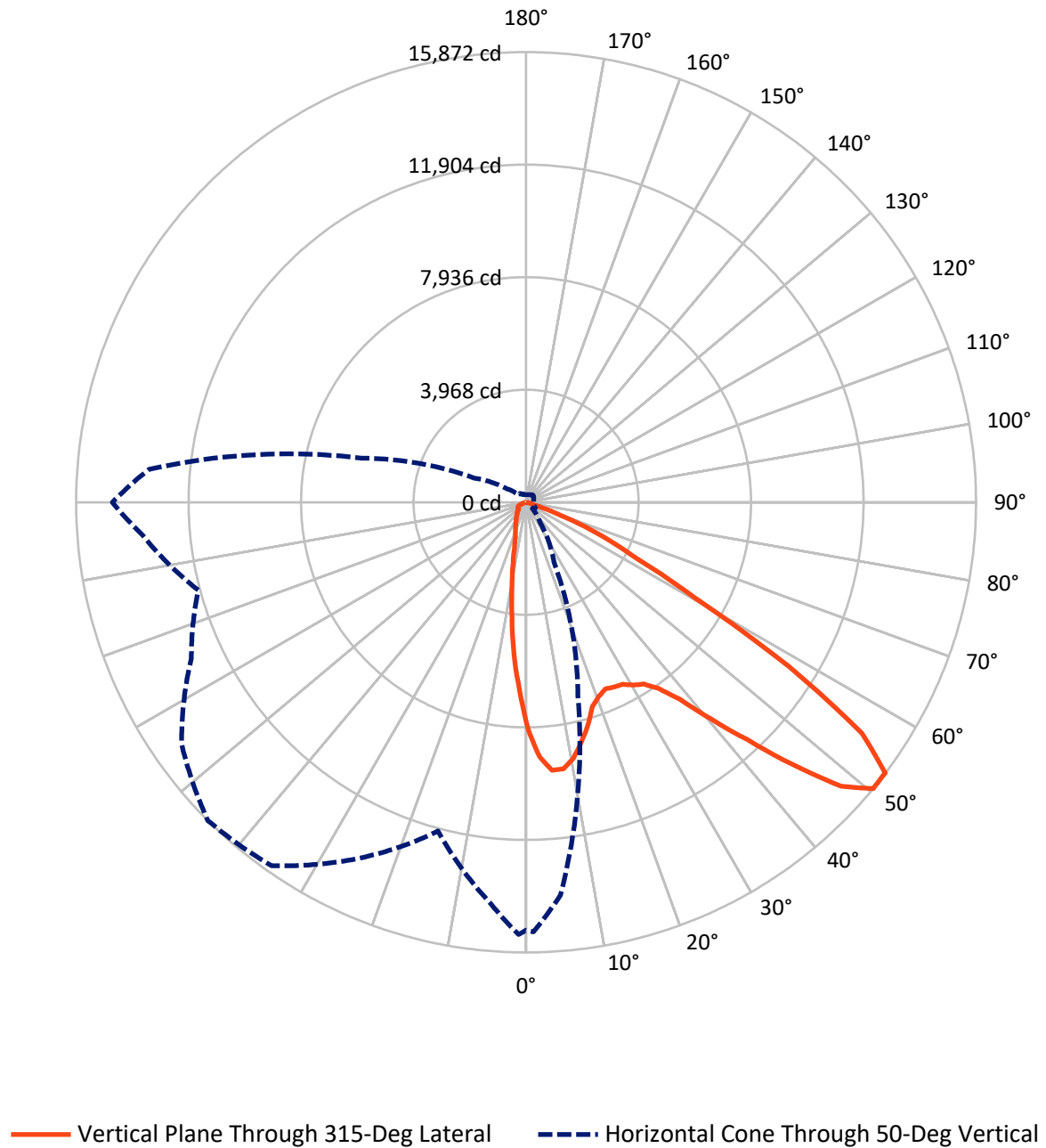
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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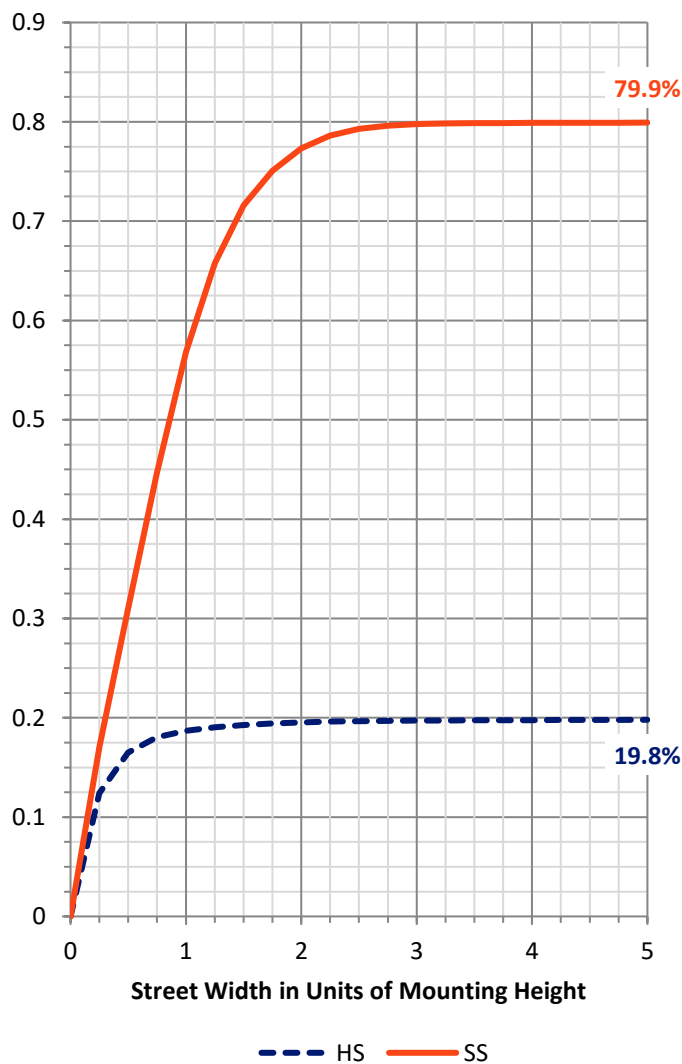
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3153.5	0.0	3153.5
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	12590.5	0.0	12590.5
	% Fixture	80.0	0.0	80.0
Total	Lumens	15744.0	0.0	15744.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.0	3.7
10°-20°	1156.6	7.3
20°-30°	1737.6	11.0
30°-40°	2608.1	16.6
40°-50°	3665.5	23.3
50°-60°	3953.9	25.1
60°-70°	1835.8	11.7
70°-80°	172.7	1.1
80°-90°	31.8	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°	15744.0	100.0
0°-180°	15744.0	100.0

Coefficient of Utilization



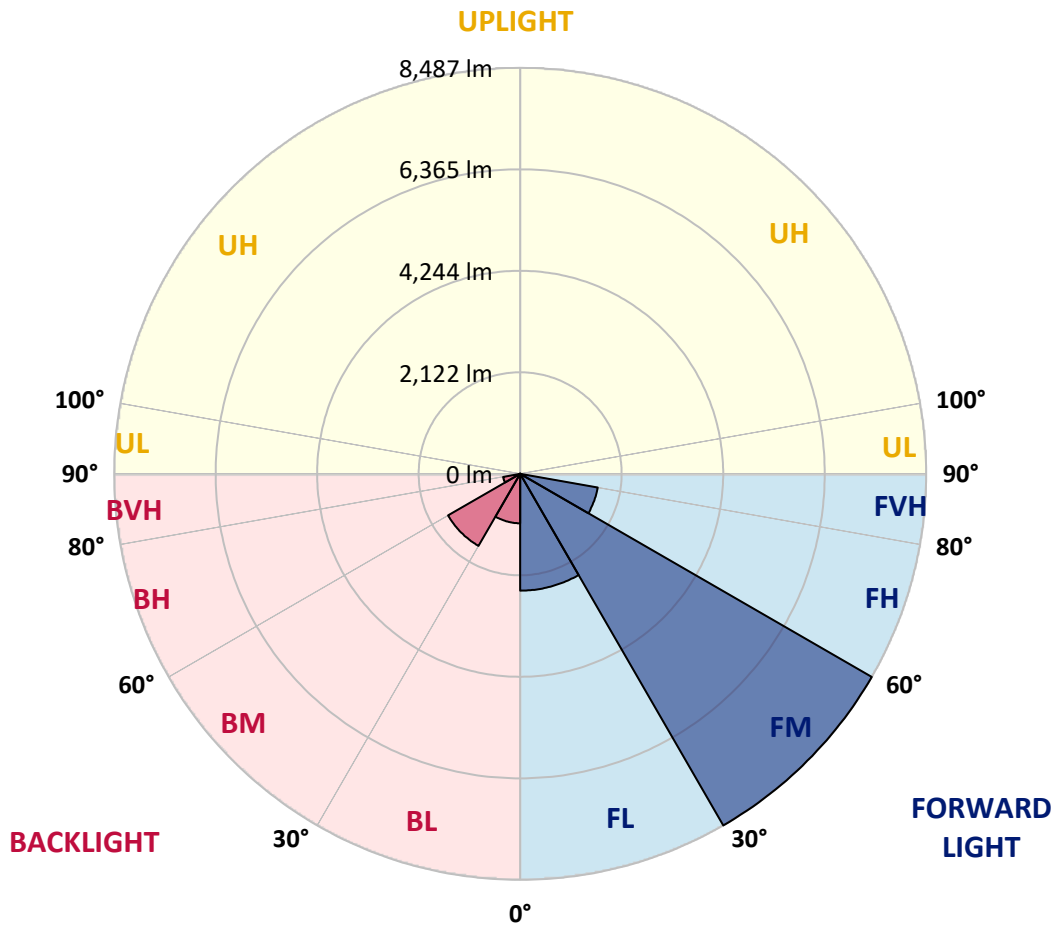
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2442.5	15.5			
FM (30°-60°)	8487.2	53.9			
FH (60°-80°)	1646.4	10.5			G1/1800
FVH (80°-90°)	14.3	0.1			G1/100
BL (0°-30°)	1033.6	6.6	B3/2500		
BM (30°-60°)	1740.3	11.1	B2/2500		
BH (60°-80°)	362.1	2.3	B1/500		G1/500
BVH (80°-90°)	17.5	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2
2.5°	8299.7	8171.6	8009.2	7874.9	7674.9	7272.0	7162.7	7031.5	6922.1	6775.3	6569.2
5°	7546.9	7506.3	7431.3	6925.3	6559.8	6072.5	5672.7	5504.0	5282.2	5101.0	4969.8
7.5°	6972.1	6809.7	6572.3	6063.1	5479.0	4957.3	4513.8	4254.5	3960.9	3860.9	3682.8
10°	6356.7	6394.2	6044.4	5329.0	4623.1	4201.4	3926.5	3676.6	3411.1	3236.2	2983.1
12.5°	6159.9	6038.1	5769.5	4885.5	4282.6	3889.0	3554.8	3245.5	2964.4	2683.3	2439.6
15°	6288.0	6100.6	5725.8	4791.8	4020.2	3529.8	3111.2	2692.6	2433.4	2074.1	1821.1
17.5°	6747.2	6597.3	6094.4	4891.7	3885.9	3186.2	2564.6	2133.5	1736.8	1411.9	1283.8
20°	7512.5	7300.1	6669.1	5019.8	3686.0	2770.7	2080.4	1549.4	1174.5	1037.1	965.2
22.5°	8262.2	8146.6	7350.1	5266.6	3507.9	2402.1	1561.9	1043.3	877.8	852.8	805.9
25°	9689.7	9343.0	8390.3	5713.3	3370.5	2055.4	1177.6	840.3	743.4	724.7	730.9
27.5°	10539.4	10248.9	9352.4	6010.0	3217.4	1789.9	996.5	771.6	706.0	665.3	649.7
30°	11354.7	11017.3	9830.3	6184.9	2889.4	1508.8	884.0	740.3	724.7	665.3	646.6
32.5°	11982.5	11651.4	10520.6	6447.3	2755.1	1327.6	727.8	577.9	537.3	531.0	587.3
35°	12944.6	12591.7	11111.0	6591.0	2652.0	1233.9	631.0	515.4	468.6	449.8	452.9
37.5°	13841.1	13600.6	11657.7	6647.2	2542.7	1205.8	565.4	462.3	421.7	409.2	406.1
40°	14590.8	14053.6	12176.2	6706.6	2495.8	1152.6	524.8	421.7	393.6	374.8	374.8
42.5°	14934.4	14387.8	12757.2	6672.2	2483.3	1068.3	524.8	387.3	365.5	346.7	343.6
45°	14859.5	14637.7	13016.5	6656.6	2483.3	984.0	477.9	378.0	346.7	321.7	315.5
47.5°	15053.1	14762.6	13341.3	6722.2	2433.4	924.6	403.0	396.7	328.0	296.8	290.5
50°	15087.5	15143.7	13906.7	7062.7	2324.0	849.6	315.5	390.5	315.5	268.6	262.4
52°	15312.4	14962.6	14078.5	7243.9	2208.5	793.4	265.5	334.2	303.0	249.9	243.6
52.5°	15003.2	15231.2	14119.2	7309.5	2221.0	755.9	256.1	328.0	296.8	249.9	234.3
55°	14656.4	14875.1	13953.6	7450.0	2036.7	593.5	199.9	237.4	268.6	218.7	209.3
57.5°	12738.5	12960.3	12126.2	6822.2	1658.7	418.6	165.6	178.1	237.4	203.0	193.7
60°	11323.4	11164.1	10177.0	5691.4	1177.6	234.3	131.2	137.4	259.3	187.4	184.3
62.5°	10348.8	10008.4	8505.9	4395.1	718.5	156.2	103.1	106.2	199.9	174.9	174.9
65°	7656.2	7275.1	5650.8	2658.3	353.0	109.3	78.1	84.3	124.9	149.9	149.9
67.5°	4370.1	4223.3	2730.1	1199.5	146.8	68.7	59.4	65.6	96.8	121.8	115.6
70°	2008.5	1802.4	1049.6	253.0	68.7	46.9	46.9	53.1	78.1	90.6	84.3
72.5°	587.3	556.0	256.1	40.6	28.1	28.1	31.2	40.6	59.4	68.7	62.5
75°	43.7	28.1	18.7	12.5	12.5	18.7	25.0	40.6	59.4	65.6	53.1
77.5°	3.1	6.2	3.1	3.1	9.4	18.7	28.1	50.0	78.1	81.2	59.4
80°	3.1	3.1	0.0	3.1	9.4	18.7	31.2	56.2	87.5	93.7	50.0
82.5°	0.0	0.0	0.0	3.1	12.5	25.0	37.5	59.4	81.2	100.0	53.1
85°	0.0	0.0	0.0	3.1	18.7	34.4	43.7	15.6	9.4	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°	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2
2.5°	6716.0	6634.8	6603.5	6631.6	6622.3	6612.9	6784.7	6747.2	6741.0	6797.2	6784.7
5°	5041.7	4898.0	5291.6	5132.2	5297.8	5397.8	5416.5	5425.9	5541.5	5419.6	5578.9
7.5°	3592.3	3629.7	3626.6	3732.8	3923.4	4092.1	4192.0	4113.9	4107.7	4092.1	4023.3
10°	2870.7	2805.1	2792.6	2767.6	2827.0	2970.6	3092.5	2995.6	2926.9	3020.6	2992.5
12.5°	2345.9	2255.3	2205.3	2105.4	2108.5	2205.3	2205.3	2205.3	2274.1	2327.2	2367.8
15°	1799.3	1724.3	1724.3	1624.3	1602.5	1605.6	1655.6	1661.8	1771.1	1802.4	1818.0
17.5°	1258.9	1218.2	1265.1	1305.7	1280.7	1287.0	1305.7	1312.0	1327.6	1315.1	1346.3
20°	968.3	962.1	974.6	1046.4	1099.5	1130.8	1108.9	1077.7	1058.9	1015.2	1015.2
22.5°	821.5	834.0	855.9	915.2	984.0	1002.7	977.7	905.9	849.6	843.4	846.5
25°	730.9	743.4	777.8	815.3	852.8	884.0	859.0	805.9	774.7	746.6	746.6
27.5°	674.7	681.0	699.7	727.8	759.1	784.1	774.7	746.6	712.2	699.7	671.6
30°	631.0	640.4	662.2	668.5	696.6	709.1	693.5	687.2	665.3	649.7	640.4
32.5°	609.1	606.0	621.6	627.9	631.0	640.4	621.6	631.0	627.9	602.9	593.5
35°	459.2	484.2	524.8	559.1	568.5	581.0	577.9	565.4	531.0	502.9	468.6
37.5°	412.3	427.9	449.8	477.9	515.4	531.0	524.8	493.5	452.9	434.2	427.9
40°	381.1	390.5	409.2	427.9	465.4	493.5	471.7	443.6	412.3	396.7	387.3
42.5°	353.0	356.1	365.5	384.2	412.3	456.1	418.6	381.1	368.6	359.2	353.0
45°	321.7	321.7	334.2	343.6	374.8	415.5	378.0	343.6	337.4	331.1	328.0
47.5°	296.8	299.9	306.1	318.6	343.6	371.7	346.7	318.6	303.0	299.9	293.6
50°	265.5	268.6	281.1	293.6	324.9	340.5	324.9	293.6	278.0	268.6	268.6
52°	240.5	249.9	262.4	287.4	309.2	334.2	315.5	281.1	262.4	253.0	246.8
52.5°	237.4	243.6	256.1	284.3	309.2	331.1	312.4	278.0	256.1	249.9	243.6
55°	212.4	221.8	243.6	278.0	306.1	331.1	306.1	274.9	243.6	228.0	221.8
57.5°	203.0	209.3	237.4	281.1	303.0	331.1	306.1	274.9	243.6	215.5	209.3
60°	193.7	206.2	237.4	271.8	299.9	334.2	309.2	271.8	237.4	203.0	203.0
62.5°	184.3	193.7	234.3	265.5	287.4	321.7	296.8	265.5	228.0	193.7	190.5
65°	159.3	174.9	206.2	221.8	246.8	278.0	253.0	231.2	199.9	171.8	168.7
67.5°	121.8	128.1	153.1	171.8	187.4	215.5	203.0	174.9	153.1	131.2	131.2
70°	84.3	90.6	109.3	118.7	134.3	149.9	140.6	118.7	103.1	90.6	87.5
72.5°	59.4	62.5	68.7	75.0	81.2	87.5	84.3	68.7	59.4	56.2	53.1
75°	46.9	53.1	56.2	53.1	50.0	46.9	46.9	40.6	34.4	31.2	31.2
77.5°	46.9	50.0	46.9	40.6	34.4	31.2	28.1	25.0	18.7	15.6	18.7
80°	40.6	40.6	40.6	34.4	31.2	28.1	25.0	21.9	18.7	15.6	15.6
82.5°	43.7	43.7	40.6	34.4	34.4	28.1	28.1	25.0	21.9	15.6	15.6
85°	0.0	0.0	0.0	6.2	15.6	28.1	28.1	25.0	21.9	18.7	18.7
87.5°	0.0	0.0	0.0	0.0	3.1	6.2	12.5	15.6	18.7	18.7	18.7
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°	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2
2.5°	6897.1	7015.8	7240.8	7465.7	7603.1	7765.5	8059.2	8215.3	8418.4	8518.3	8715.1
5°	5557.1	5838.2	5938.2	6194.3	6469.2	6744.1	7181.4	7662.5	8062.3	8337.2	8693.3
7.5°	4054.6	4120.2	4507.5	4679.3	5129.1	5628.9	6225.5	6831.5	7337.6	7787.4	8059.2
10°	3039.4	3279.9	3523.5	3851.5	4213.9	4729.3	5300.9	5969.4	6625.4	7075.2	7418.8
12.5°	2442.7	2633.3	2958.1	3311.1	3757.8	4098.3	4673.1	5335.3	6184.9	6625.4	7078.3
15°	1849.2	2092.9	2461.5	2827.0	3298.6	3657.9	4238.9	5072.9	6166.2	6772.2	7162.7
17.5°	1371.3	1536.9	1868.0	2277.2	2758.2	3264.3	4048.3	5044.8	6375.5	7097.1	7500.0
20°	1049.6	1105.8	1315.1	1680.6	2202.2	2864.4	3739.1	5166.6	6994.0	7887.4	8296.6
22.5°	849.6	874.6	955.9	1208.9	1714.9	2514.6	3592.3	5250.9	7690.6	8833.8	9380.5
25°	740.3	734.1	787.2	896.5	1340.1	2186.6	3404.8	5569.6	8543.3	9945.9	10436.3
27.5°	674.7	674.7	699.7	777.8	1112.0	1974.2	3286.1	5797.6	9402.4	10923.6	11189.1
30°	640.4	646.6	718.5	743.4	924.6	1721.2	3089.3	6028.8	10223.9	11548.3	11913.8
32.5°	593.5	568.5	552.9	615.4	777.8	1493.1	2892.6	6125.6	10889.2	12313.6	12626.0
35°	456.1	443.6	462.3	509.2	668.5	1299.5	2673.9	6234.9	11654.5	13200.8	13263.3
37.5°	412.3	409.2	421.7	462.3	562.3	1130.8	2517.7	6206.8	12238.7	13934.9	13766.2
40°	381.1	381.1	390.5	424.8	502.9	1012.1	2355.3	6181.8	12804.1	14759.5	14266.0
42.5°	356.1	356.1	371.7	393.6	477.9	934.0	2233.4	6147.5	13278.9	15265.6	14559.6
45°	321.7	331.1	356.1	378.0	484.2	880.9	2142.9	6016.3	13441.3	15259.3	14419.0
47.5°	296.8	309.2	334.2	365.5	437.3	865.3	2080.4	5900.7	13385.1	14884.5	13978.6
50°	268.6	284.3	318.6	371.7	371.7	834.0	2014.8	6003.8	13344.5	14594.0	13556.9
52°	249.9	262.4	306.1	362.3	324.9	768.4	1974.2	6203.7	13510.0	14556.5	13369.5
52.5°	246.8	256.1	296.8	356.1	309.2	755.9	1946.1	6250.5	13563.1	14462.8	13497.5
55°	218.7	231.2	271.8	278.0	253.0	621.6	1855.5	6356.7	13300.7	14278.5	13375.7
57.5°	206.2	212.4	240.5	228.0	218.7	468.6	1596.2	6191.2	11813.9	12682.2	12444.8
60°	190.5	196.8	224.9	178.1	184.3	328.0	1199.5	5375.9	9486.7	10567.5	10995.4
62.5°	184.3	181.2	212.4	143.7	156.2	237.4	846.5	4370.1	7309.5	8699.5	9439.8
65°	162.4	159.3	153.1	121.8	134.3	184.3	506.0	2851.9	5151.0	6581.6	6987.7
67.5°	124.9	131.2	112.5	96.8	112.5	143.7	281.1	1277.6	2702.0	3948.4	4276.4
70°	87.5	93.7	90.6	84.3	100.0	118.7	162.4	437.3	1118.3	2074.1	2286.6
72.5°	53.1	65.6	68.7	71.8	87.5	103.1	115.6	140.6	296.8	734.1	912.1
75°	31.2	43.7	53.1	62.5	71.8	87.5	96.8	100.0	103.1	137.4	221.8
77.5°	21.9	31.2	46.9	59.4	71.8	87.5	103.1	109.3	103.1	96.8	103.1
80°	18.7	31.2	43.7	56.2	75.0	90.6	103.1	103.1	100.0	87.5	93.7
82.5°	18.7	31.2	46.9	59.4	71.8	87.5	100.0	103.1	93.7	87.5	90.6
85°	21.9	34.4	50.0	62.5	78.1	71.8	65.6	53.1	50.0	40.6	43.7
87.5°	21.9	31.2	31.2	34.4	37.5	37.5	37.5	34.4	28.1	25.0	25.0
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: P530655

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2	7984.2
2.5°	8724.5	8974.4	8965.0	8971.3	8933.8	8680.8	8559.0	8249.7	8337.2	8299.7
5°	9058.7	9305.5	9517.9	9492.9	9205.6	8862.0	8352.8	7871.7	7740.5	7546.9
7.5°	8724.5	9318.0	9514.8	9486.7	9061.9	8621.4	7809.3	7328.2	7100.2	6972.1
10°	8193.5	8880.7	9124.3	9174.3	8886.9	8218.5	7471.9	6700.3	6578.5	6356.7
12.5°	7890.5	8390.3	8540.2	8674.5	8574.6	8074.8	7215.8	6475.4	6306.8	6159.9
15°	7643.7	7940.5	8002.9	8156.0	8215.3	7946.7	7350.1	6719.1	6303.6	6288.0
17.5°	7871.7	7749.9	7521.9	7568.7	7756.2	7949.8	7696.8	7200.1	6797.2	6747.2
20°	8249.7	7712.4	7197.0	7312.6	7468.8	8062.3	8221.6	7871.7	7640.6	7512.5
22.5°	8683.9	7778.0	7093.9	7150.2	7446.9	8315.3	9071.2	8877.6	8446.5	8262.2
25°	9486.7	7959.2	7175.2	7212.6	7618.7	8668.3	9839.7	9983.4	9727.2	9689.7
27.5°	10270.7	8427.8	7353.2	7268.9	7706.2	9011.9	10305.1	11076.7	10626.8	10539.4
30°	10670.6	8808.9	7618.7	7475.0	8068.5	9221.2	10586.2	11788.9	11395.3	11354.7
32.5°	11282.8	9155.6	7824.9	7640.6	8271.6	9480.4	11111.0	12566.7	12185.6	11982.5
35°	11539.0	9533.6	8277.8	8062.3	8852.6	9842.8	11379.7	13260.1	13141.4	12944.6
37.5°	12032.5	9939.6	8812.0	8799.5	9555.4	10314.5	11863.8	14203.5	14181.6	13841.1
40°	12073.1	10383.2	9655.4	10049.0	10642.5	11136.0	12288.7	14465.9	14822.0	14590.8
42.5°	12135.6	11161.0	11114.1	11439.0	11948.2	11842.0	12304.3	14528.4	15071.9	14934.4
45°	12163.7	11938.8	12597.9	13197.7	13410.1	12766.6	12157.5	14409.7	15203.1	14859.5
47.5°	11938.8	12607.3	13797.4	14956.3	15018.8	13335.1	12095.0	14287.8	15281.2	15053.1
50°	11970.0	13025.9	14834.5	15871.6	15643.5	13838.0	11998.2	14212.9	15240.6	15087.5
52°	11895.1	13035.2	14981.3	15852.8	15693.5	13560.0	11832.6	13925.5	15203.1	15312.4
52.5°	11979.4	12979.0	14828.2	15865.3	15659.1	13697.5	11810.7	14084.8	15224.9	15003.2
55°	11688.9	12310.5	13931.7	14372.2	14340.9	12432.3	11139.1	13556.9	14653.3	14656.4
57.5°	10564.4	10670.6	10926.7	10917.4	10773.7	9774.1	9527.3	12466.7	13063.3	12738.5
60°	9308.6	7812.4	7122.0	6840.9	6681.6	6519.2	8427.8	11404.7	11460.9	11323.4
62.5°	8043.5	5416.5	4498.1	4420.0	4457.5	5051.0	8146.6	10983.0	10645.6	10348.8
65°	6491.1	3948.4	3267.4	3164.3	3529.8	4170.1	6594.1	8421.5	7903.0	7656.2
67.5°	4076.4	2880.1	2208.5	2014.8	2455.2	2870.7	4332.6	5291.6	4710.5	4370.1
70°	2417.7	1608.7	999.6	896.5	1009.0	1530.6	2427.1	2639.5	2183.5	2008.5
72.5°	952.7	590.4	278.0	237.4	246.8	537.3	893.4	871.5	659.1	587.3
75°	256.1	178.1	96.8	78.1	65.6	100.0	143.7	93.7	34.4	43.7
77.5°	118.7	106.2	84.3	65.6	50.0	37.5	18.7	6.2	6.2	3.1
80°	103.1	90.6	78.1	65.6	50.0	31.2	15.6	3.1	3.1	3.1
82.5°	96.8	84.3	71.8	59.4	46.9	31.2	15.6	3.1	0.0	0.0
85°	40.6	53.1	59.4	56.2	50.0	31.2	15.6	3.1	0.0	0.0
87.5°	21.9	18.7	15.6	12.5	9.4	6.2	6.2	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)