

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: P530889

Luminaire Tested: **GALN-SA6A-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530889
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-SA6A-827-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA 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: 11021 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

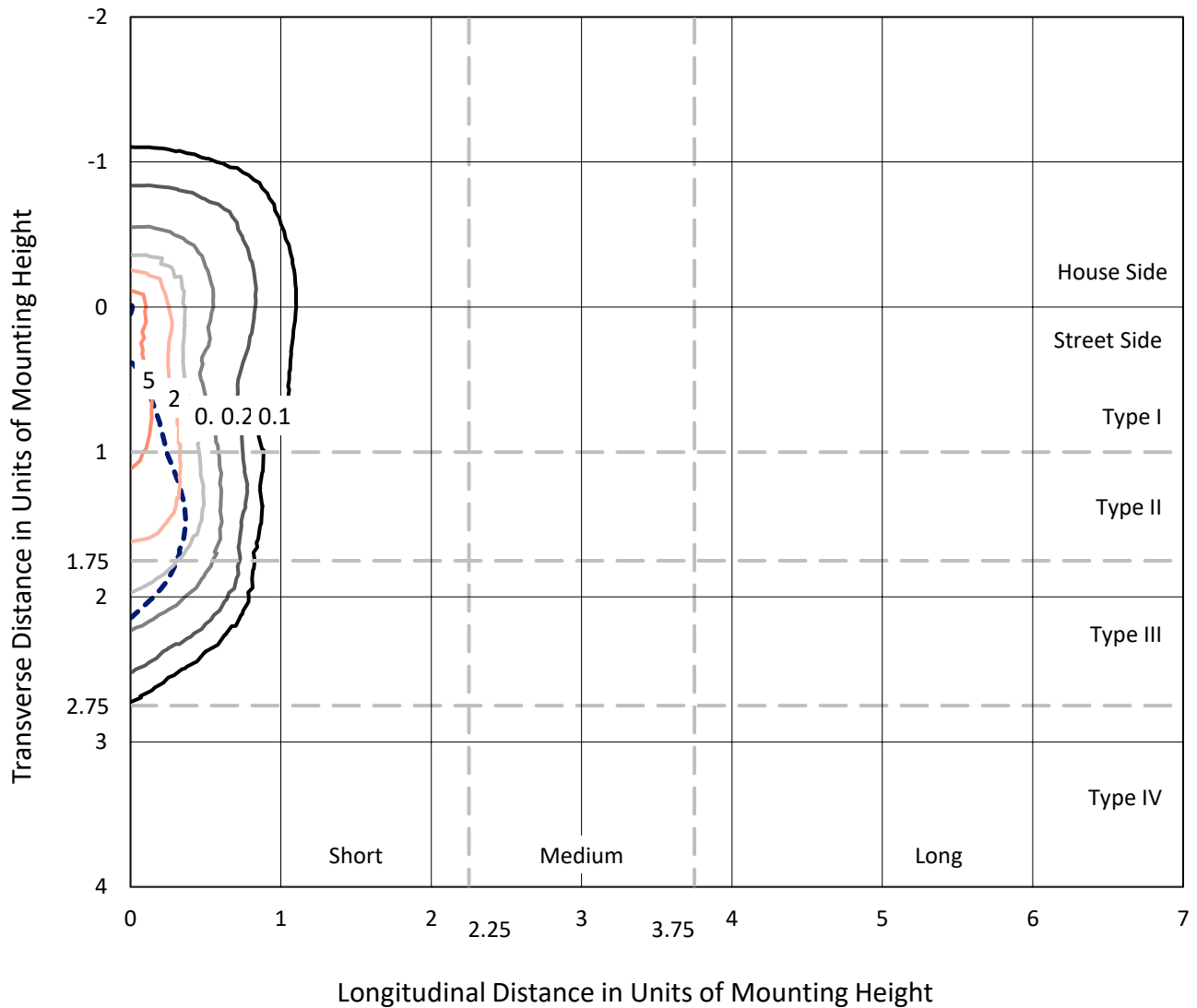
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

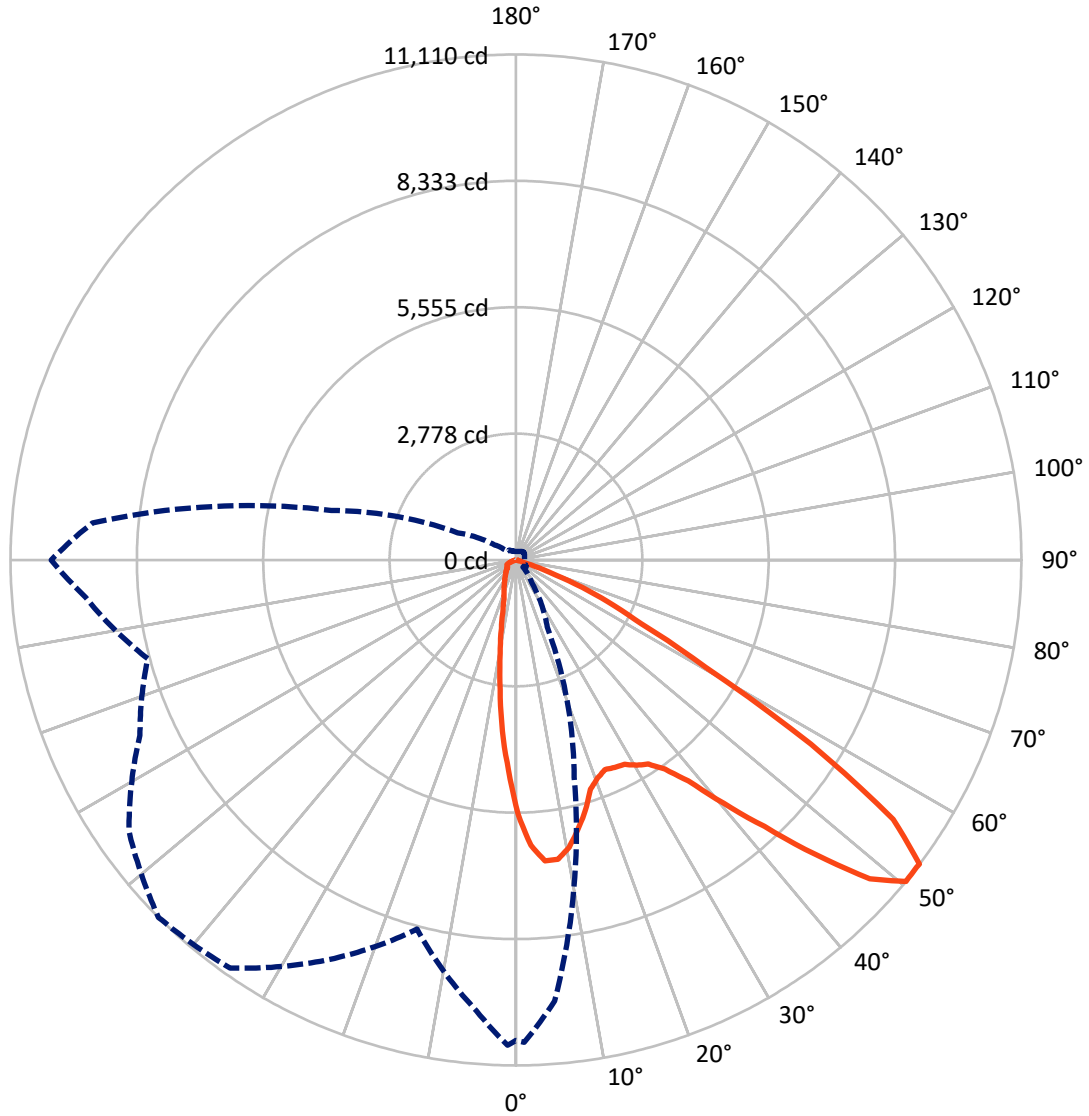
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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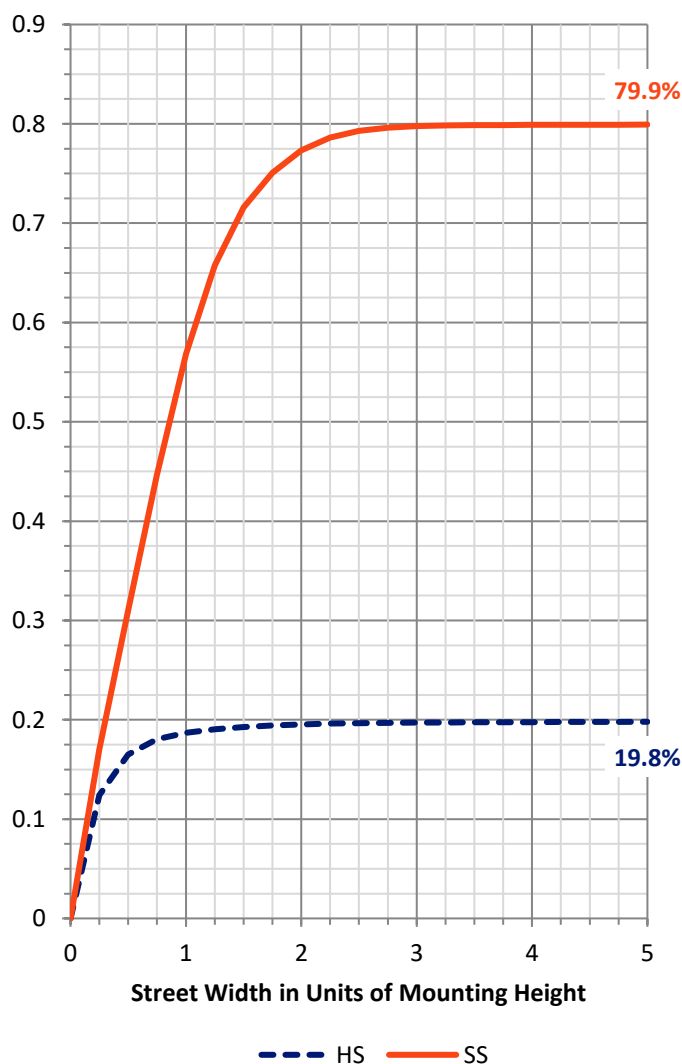
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2207.5	0.0	2207.5
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	8813.5	0.0	8813.5
	% Fixture	80.0	0.0	80.0
Total	Lumens	11021.0	0.0	11021.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.4	3.7
10°-20°	809.7	7.3
20°-30°	1216.3	11.0
30°-40°	1825.7	16.6
40°-50°	2565.9	23.3
50°-60°	2767.8	25.1
60°-70°	1285.1	11.7
70°-80°	120.9	1.1
80°-90°	22.3	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°	11021.0	100.0
0°-180°	11021.0	100.0

Coefficient of Utilization



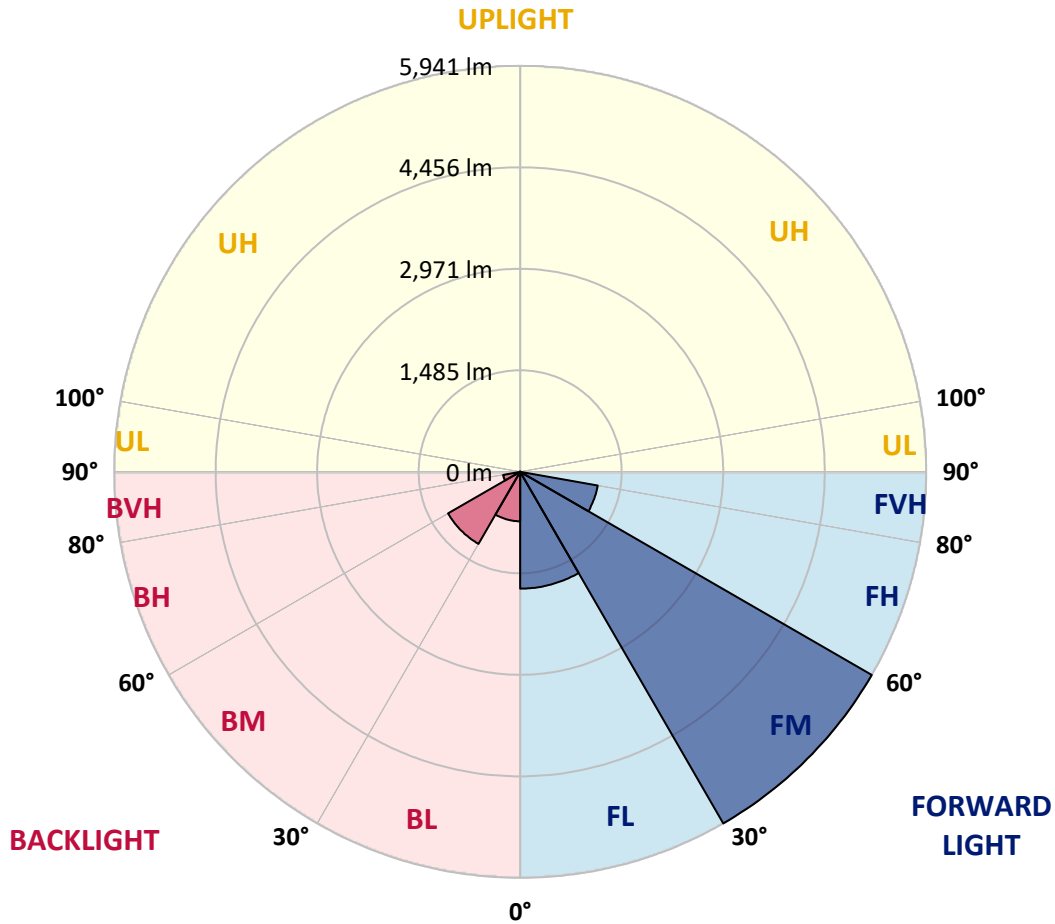
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1709.8	15.5			
FM (30°-60°)	5941.1	53.9			
FH (60°-80°)	1152.5	10.5			G1/1800
FVH (80°-90°)	10.0	0.1			G1/100
BL (0°-30°)	723.6	6.6	B2/1000		
BM (30°-60°)	1218.2	11.1	B2/2500		
BH (60°-80°)	253.5	2.3	B1/500		G1/500
BVH (80°-90°)	12.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0
2.5°	5809.9	5720.2	5606.5	5512.5	5372.6	5090.5	5014.0	4922.1	4845.6	4742.8	4598.5
5°	5282.9	5254.5	5202.0	4847.8	4591.9	4250.8	3970.9	3852.8	3697.6	3570.8	3478.9
7.5°	4880.6	4766.9	4600.7	4244.3	3835.4	3470.2	3159.7	2978.2	2772.7	2702.7	2578.0
10°	4449.8	4476.0	4231.1	3730.4	3236.2	2941.0	2748.6	2573.7	2387.8	2265.4	2088.2
12.5°	4312.0	4226.8	4038.7	3419.9	2997.9	2722.4	2488.4	2271.9	2075.1	1878.3	1707.8
15°	4401.7	4270.5	4008.1	3354.3	2814.2	2470.9	2177.9	1884.9	1703.4	1451.9	1274.8
17.5°	4723.1	4618.2	4266.1	3424.3	2720.2	2230.4	1795.2	1493.5	1215.8	988.4	898.7
20°	5258.9	5110.2	4668.5	3513.9	2580.2	1939.5	1456.3	1084.6	822.2	726.0	675.7
22.5°	5783.6	5702.7	5145.1	3686.7	2455.6	1681.5	1093.3	730.3	614.4	597.0	564.2
25°	6782.9	6540.2	5873.3	3999.4	2359.4	1438.8	824.4	588.2	520.4	507.3	511.7
27.5°	7377.7	7174.3	6546.8	4207.1	2252.2	1252.9	697.5	540.1	494.2	465.8	454.8
30°	7948.4	7712.3	6881.3	4329.5	2022.6	1056.1	618.8	518.2	507.3	465.8	452.6
32.5°	8387.9	8156.1	7364.6	4513.2	1928.6	929.3	509.5	404.5	376.1	371.7	411.1
35°	9061.4	8814.3	7777.9	4613.8	1856.5	863.7	441.7	360.8	328.0	314.9	317.1
37.5°	9689.0	9520.6	8160.5	4653.2	1779.9	844.0	395.8	323.6	295.2	286.4	284.3
40°	10213.8	9837.7	8523.5	4694.7	1747.1	806.9	367.4	295.2	275.5	262.4	262.4
42.5°	10454.3	10071.6	8930.2	4670.6	1738.4	747.8	367.4	271.1	255.8	242.7	240.5
45°	10401.8	10246.6	9111.7	4659.7	1738.4	688.8	334.6	264.6	242.7	225.2	220.9
47.5°	10537.4	10334.0	9339.1	4705.6	1703.4	647.2	282.1	277.7	229.6	207.7	203.4
50°	10561.4	10600.8	9734.9	4944.0	1626.9	594.8	220.9	273.3	220.9	188.1	183.7
52°	10718.9	10474.0	9855.2	5070.8	1546.0	555.4	185.9	234.0	212.1	174.9	170.6
52.5°	10502.4	10662.0	9883.6	5116.7	1554.7	529.2	179.3	229.6	207.7	174.9	164.0
55°	10259.7	10412.8	9767.7	5215.1	1425.7	415.5	139.9	166.2	188.1	153.1	146.5
57.5°	8917.1	9072.3	8488.5	4775.6	1161.1	293.0	115.9	124.6	166.2	142.1	135.6
60°	7926.5	7815.0	7124.1	3984.0	824.4	164.0	91.8	96.2	181.5	131.2	129.0
62.5°	7244.3	7006.0	5954.2	3076.6	502.9	109.3	72.2	74.3	139.9	122.5	122.5
65°	5359.4	5092.7	3955.6	1860.8	247.1	76.5	54.7	59.0	87.5	105.0	105.0
67.5°	3059.1	2956.3	1911.1	839.7	102.8	48.1	41.5	45.9	67.8	85.3	80.9
70°	1406.0	1261.7	734.7	177.1	48.1	32.8	32.8	37.2	54.7	63.4	59.0
72.5°	411.1	389.2	179.3	28.4	19.7	19.7	21.9	28.4	41.5	48.1	43.7
75°	30.6	19.7	13.1	8.7	8.7	13.1	17.5	28.4	41.5	45.9	37.2
77.5°	2.2	4.4	2.2	2.2	6.6	13.1	19.7	35.0	54.7	56.9	41.5
80°	2.2	2.2	0.0	2.2	6.6	13.1	21.9	39.4	61.2	65.6	35.0
82.5°	0.0	0.0	0.0	2.2	8.7	17.5	26.2	41.5	56.9	70.0	37.2
85°	0.0	0.0	0.0	2.2	13.1	24.1	30.6	10.9	6.6	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°	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0
2.5°	4701.3	4644.4	4622.5	4642.2	4635.7	4629.1	4749.4	4723.1	4718.8	4758.1	4749.4
5°	3529.2	3428.6	3704.2	3592.6	3708.5	3778.5	3791.6	3798.2	3879.1	3793.8	3905.3
7.5°	2514.6	2540.9	2538.7	2613.0	2746.4	2864.5	2934.5	2879.8	2875.4	2864.5	2816.4
10°	2009.5	1963.6	1954.9	1937.4	1978.9	2079.5	2164.8	2097.0	2048.9	2114.5	2094.8
12.5°	1642.2	1578.7	1543.8	1473.8	1476.0	1543.8	1543.8	1543.8	1591.9	1629.0	1657.5
15°	1259.5	1207.0	1207.0	1137.0	1121.7	1123.9	1158.9	1163.3	1239.8	1261.7	1272.6
17.5°	881.2	852.8	885.6	914.0	896.5	900.9	914.0	918.4	929.3	920.6	942.4
20°	677.9	673.5	682.2	732.5	769.7	791.6	776.3	754.4	741.3	710.7	710.7
22.5°	575.1	583.8	599.1	640.7	688.8	701.9	684.4	634.1	594.8	590.4	592.6
25°	511.7	520.4	544.5	570.7	597.0	618.8	601.3	564.2	542.3	522.6	522.6
27.5°	472.3	476.7	489.8	509.5	531.4	548.8	542.3	522.6	498.6	489.8	470.1
30°	441.7	448.3	463.6	467.9	487.6	496.4	485.4	481.1	465.8	454.8	448.3
32.5°	426.4	424.2	435.1	439.5	441.7	448.3	435.1	441.7	439.5	422.0	415.5
35°	321.4	338.9	367.4	391.4	398.0	406.7	404.5	395.8	371.7	352.0	328.0
37.5°	288.6	299.6	314.9	334.6	360.8	371.7	367.4	345.5	317.1	303.9	299.6
40°	266.8	273.3	286.4	299.6	325.8	345.5	330.2	310.5	288.6	277.7	271.1
42.5°	247.1	249.3	255.8	269.0	288.6	319.2	293.0	266.8	258.0	251.5	247.1
45°	225.2	225.2	234.0	240.5	262.4	290.8	264.6	240.5	236.2	231.8	229.6
47.5°	207.7	209.9	214.3	223.0	240.5	260.2	242.7	223.0	212.1	209.9	205.5
50°	185.9	188.1	196.8	205.5	227.4	238.3	227.4	205.5	194.6	188.1	188.1
52°	168.4	174.9	183.7	201.2	216.5	234.0	220.9	196.8	183.7	177.1	172.7
52.5°	166.2	170.6	179.3	199.0	216.5	231.8	218.7	194.6	179.3	174.9	170.6
55°	148.7	155.3	170.6	194.6	214.3	231.8	214.3	192.4	170.6	159.6	155.3
57.5°	142.1	146.5	166.2	196.8	212.1	231.8	214.3	192.4	170.6	150.9	146.5
60°	135.6	144.3	166.2	190.2	209.9	234.0	216.5	190.2	166.2	142.1	142.1
62.5°	129.0	135.6	164.0	185.9	201.2	225.2	207.7	185.9	159.6	135.6	133.4
65°	111.5	122.5	144.3	155.3	172.7	194.6	177.1	161.8	139.9	120.3	118.1
67.5°	85.3	89.7	107.1	120.3	131.2	150.9	142.1	122.5	107.1	91.8	91.8
70°	59.0	63.4	76.5	83.1	94.0	105.0	98.4	83.1	72.2	63.4	61.2
72.5°	41.5	43.7	48.1	52.5	56.9	61.2	59.0	48.1	41.5	39.4	37.2
75°	32.8	37.2	39.4	37.2	35.0	32.8	32.8	28.4	24.1	21.9	21.9
77.5°	32.8	35.0	32.8	28.4	24.1	21.9	19.7	17.5	13.1	10.9	13.1
80°	28.4	28.4	28.4	24.1	21.9	19.7	17.5	15.3	13.1	10.9	10.9
82.5°	30.6	30.6	28.4	24.1	24.1	19.7	19.7	17.5	15.3	10.9	10.9
85°	0.0	0.0	0.0	4.4	10.9	19.7	19.7	17.5	15.3	13.1	13.1
87.5°	0.0	0.0	0.0	0.0	2.2	4.4	8.7	10.9	13.1	13.1	13.1
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°	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0
2.5°	4828.1	4911.2	5068.6	5226.1	5322.3	5436.0	5641.5	5750.8	5893.0	5963.0	6100.7
5°	3890.0	4086.8	4156.8	4336.1	4528.5	4720.9	5027.1	5363.8	5643.7	5836.1	6085.4
7.5°	2838.3	2884.2	3155.3	3275.6	3590.5	3940.3	4358.0	4782.2	5136.4	5451.3	5641.5
10°	2127.6	2296.0	2466.5	2696.1	2949.8	3310.6	3710.7	4178.7	4637.9	4952.7	5193.3
12.5°	1709.9	1843.3	2070.7	2317.8	2630.5	2868.9	3271.2	3734.8	4329.5	4637.9	4954.9
15°	1294.5	1465.0	1723.1	1978.9	2309.1	2560.5	2967.3	3551.1	4316.4	4740.6	5014.0
17.5°	959.9	1075.8	1307.6	1594.1	1930.8	2285.0	2833.9	3531.4	4462.9	4968.0	5250.1
20°	734.7	774.1	920.6	1176.4	1541.6	2005.1	2617.4	3616.7	4895.9	5521.3	5807.7
22.5°	594.8	612.3	669.1	846.2	1200.5	1760.2	2514.6	3675.7	5383.5	6183.8	6566.5
25°	518.2	513.9	551.0	627.6	938.1	1530.6	2383.4	3898.8	5980.4	6962.2	7305.5
27.5°	472.3	472.3	489.8	544.5	778.4	1382.0	2300.3	4058.4	6581.8	7646.7	7832.5
30°	448.3	452.6	502.9	520.4	647.2	1204.8	2162.6	4220.2	7156.9	8084.0	8339.8
32.5°	415.5	398.0	387.0	430.8	544.5	1045.2	2024.8	4288.0	7622.6	8619.7	8838.4
35°	319.2	310.5	323.6	356.4	467.9	909.6	1871.8	4364.5	8158.3	9240.7	9284.4
37.5°	288.6	286.4	295.2	323.6	393.6	791.6	1762.4	4344.8	8567.2	9754.6	9636.5
40°	266.8	266.8	273.3	297.4	352.0	708.5	1648.7	4327.3	8963.0	10331.8	9986.4
42.5°	249.3	249.3	260.2	275.5	334.6	653.8	1563.4	4303.3	9295.4	10686.1	10191.9
45°	225.2	231.8	249.3	264.6	338.9	616.6	1500.0	4211.5	9409.1	10681.7	10093.5
47.5°	207.7	216.5	234.0	255.8	306.1	605.7	1456.3	4130.6	9369.7	10419.3	9785.2
50°	188.1	199.0	223.0	260.2	260.2	583.8	1410.4	4202.7	9341.3	10216.0	9490.0
52°	174.9	183.7	214.3	253.6	227.4	537.9	1382.0	4342.7	9457.2	10189.7	9358.8
52.5°	172.7	179.3	207.7	249.3	216.5	529.2	1362.3	4375.5	9494.4	10124.1	9448.4
55°	153.1	161.8	190.2	194.6	177.1	435.1	1298.9	4449.8	9310.7	9995.1	9363.2
57.5°	144.3	148.7	168.4	159.6	153.1	328.0	1117.4	4333.9	8269.8	8877.7	8711.5
60°	133.4	137.8	157.4	124.6	129.0	229.6	839.7	3763.2	6640.8	7397.4	7697.0
62.5°	129.0	126.8	148.7	100.6	109.3	166.2	592.6	3059.1	5116.7	6089.8	6608.0
65°	113.7	111.5	107.1	85.3	94.0	129.0	354.2	1996.4	3605.8	4607.2	4891.5
67.5°	87.5	91.8	78.7	67.8	78.7	100.6	196.8	894.3	1891.4	2763.9	2993.5
70°	61.2	65.6	63.4	59.0	70.0	83.1	113.7	306.1	782.8	1451.9	1600.6
72.5°	37.2	45.9	48.1	50.3	61.2	72.2	80.9	98.4	207.7	513.9	638.5
75°	21.9	30.6	37.2	43.7	50.3	61.2	67.8	70.0	72.2	96.2	155.3
77.5°	15.3	21.9	32.8	41.5	50.3	61.2	72.2	76.5	72.2	67.8	72.2
80°	13.1	21.9	30.6	39.4	52.5	63.4	72.2	72.2	70.0	61.2	65.6
82.5°	13.1	21.9	32.8	41.5	50.3	61.2	70.0	72.2	65.6	61.2	63.4
85°	15.3	24.1	35.0	43.7	54.7	50.3	45.9	37.2	35.0	28.4	30.6
87.5°	15.3	21.9	21.9	24.1	26.2	26.2	26.2	24.1	19.7	17.5	17.5
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: P530889

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0	5589.0
2.5°	6107.3	6282.2	6275.6	6280.0	6253.8	6076.7	5991.4	5774.9	5836.1	5809.9
5°	6341.2	6514.0	6662.7	6645.2	6444.0	6203.5	5847.1	5510.3	5418.5	5282.9
7.5°	6107.3	6522.7	6660.5	6640.8	6343.4	6035.1	5466.6	5129.8	4970.2	4880.6
10°	5735.5	6216.6	6387.2	6422.1	6221.0	5753.0	5230.4	4690.3	4605.1	4449.8
12.5°	5523.4	5873.3	5978.3	6072.3	6002.3	5652.4	5051.1	4532.9	4414.8	4312.0
15°	5350.7	5558.4	5602.2	5709.3	5750.8	5562.8	5145.1	4703.4	4412.6	4401.7
17.5°	5510.3	5425.0	5265.4	5298.2	5429.4	5565.0	5387.9	5040.2	4758.1	4723.1
20°	5774.9	5398.8	5038.0	5118.9	5228.2	5643.7	5755.2	5510.3	5348.5	5258.9
22.5°	6078.8	5444.7	4965.8	5005.2	5212.9	5820.8	6350.0	6214.4	5912.7	5783.6
25°	6640.8	5571.5	5022.7	5048.9	5333.2	6067.9	6887.9	6988.5	6809.2	6782.9
27.5°	7189.7	5899.5	5147.3	5088.3	5394.4	6308.4	7213.7	7753.8	7438.9	7377.7
30°	7469.5	6166.3	5333.2	5232.6	5648.1	6454.9	7410.5	8252.4	7976.8	7948.4
32.5°	7898.1	6409.0	5477.5	5348.5	5790.2	6636.4	7777.9	8796.8	8530.1	8387.9
35°	8077.4	6673.6	5794.6	5643.7	6196.9	6890.1	7965.9	9282.3	9199.2	9061.4
37.5°	8422.9	6957.9	6168.5	6159.7	6688.9	7220.3	8304.8	9942.6	9927.3	9689.0
40°	8451.3	7268.4	6758.9	7034.4	7449.9	7795.3	8602.2	10126.3	10375.6	10213.8
42.5°	8495.1	7812.8	7780.0	8007.5	8363.9	8289.5	8613.2	10170.0	10550.5	10454.3
45°	8514.8	8357.3	8818.7	9238.5	9387.2	8936.8	8510.4	10086.9	10642.3	10401.8
47.5°	8357.3	8825.3	9658.4	10469.6	10513.3	9334.7	8466.6	10001.7	10697.0	10537.4
50°	8379.2	9118.3	10384.3	11110.3	10950.7	9686.8	8398.9	9949.2	10668.6	10561.4
52°	8326.7	9124.8	10487.1	11097.2	10985.6	9492.2	8283.0	9748.0	10642.3	10718.9
52.5°	8385.7	9085.5	10380.0	11105.9	10961.6	9588.4	8267.7	9859.5	10657.7	10502.4
55°	8182.4	8617.5	9752.4	10060.7	10038.8	8702.8	7797.5	9490.0	10257.5	10259.7
57.5°	7395.2	7469.5	7648.8	7642.3	7541.7	6842.0	6669.2	8726.9	9144.5	8917.1
60°	6516.2	5468.8	4985.5	4788.7	4677.2	4563.5	5899.5	7983.4	8022.8	7926.5
62.5°	5630.6	3791.6	3148.8	3094.1	3120.3	3535.8	5702.7	7688.2	7452.0	7244.3
65°	4543.8	2763.9	2287.2	2215.1	2470.9	2919.2	4616.0	5895.2	5532.2	5359.4
67.5°	2853.6	2016.1	1546.0	1410.4	1718.7	2009.5	3032.9	3704.2	3297.4	3059.1
70°	1692.5	1126.1	699.7	627.6	706.3	1071.5	1699.0	1847.7	1528.5	1406.0
72.5°	666.9	413.3	194.6	166.2	172.7	376.1	625.4	610.1	461.4	411.1
75°	179.3	124.6	67.8	54.7	45.9	70.0	100.6	65.6	24.1	30.6
77.5°	83.1	74.3	59.0	45.9	35.0	26.2	13.1	4.4	4.4	2.2
80°	72.2	63.4	54.7	45.9	35.0	21.9	10.9	2.2	2.2	2.2
82.5°	67.8	59.0	50.3	41.5	32.8	21.9	10.9	2.2	0.0	0.0
85°	28.4	37.2	41.5	39.4	35.0	21.9	10.9	2.2	0.0	0.0
87.5°	15.3	13.1	10.9	8.7	6.6	4.4	4.4	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

(END OF REPORT)