

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: P454030

Luminaire Tested: **GALN-SA5A-760-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454030
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-SA5A-760-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 615mA 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: 16447 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

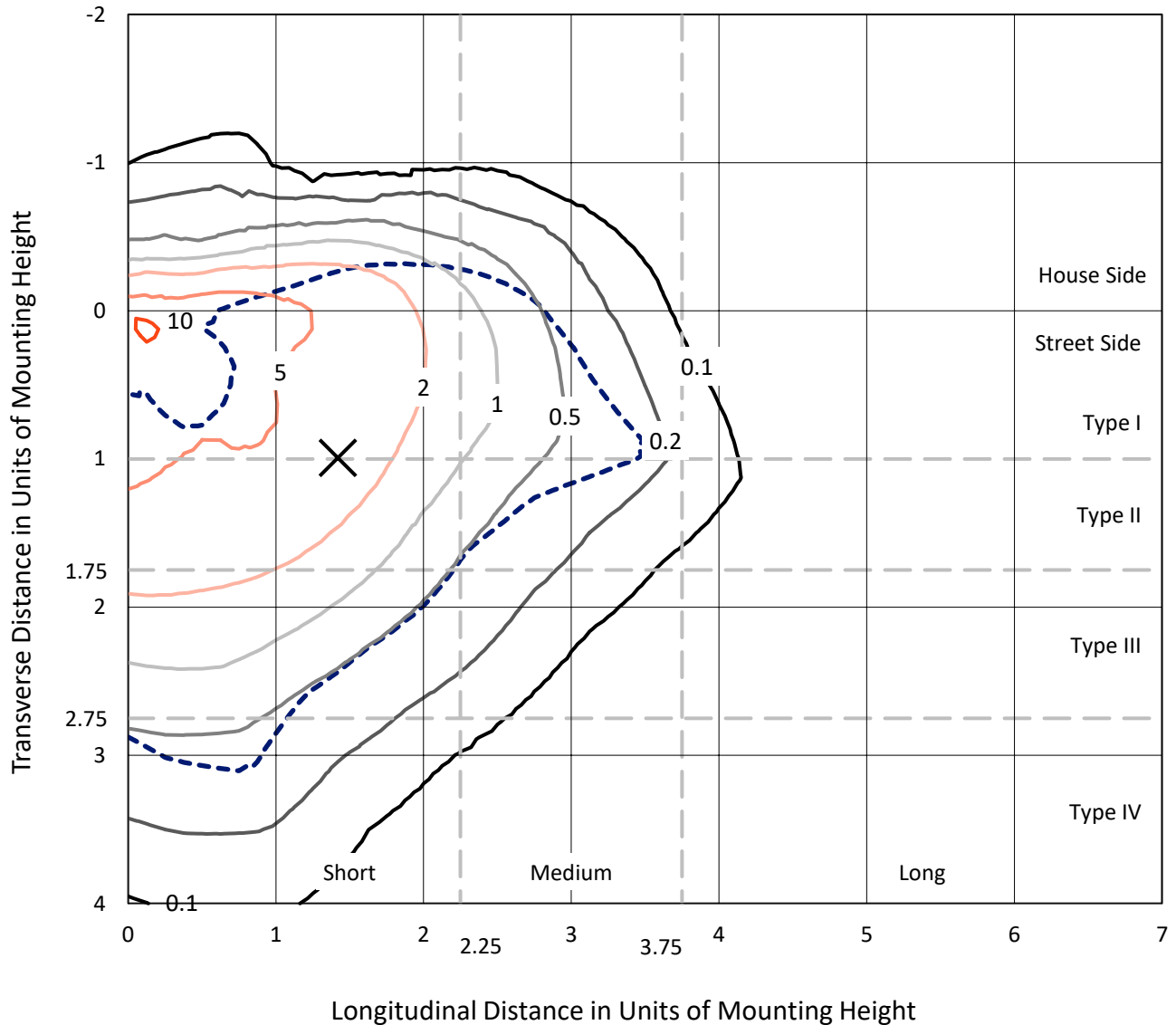
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

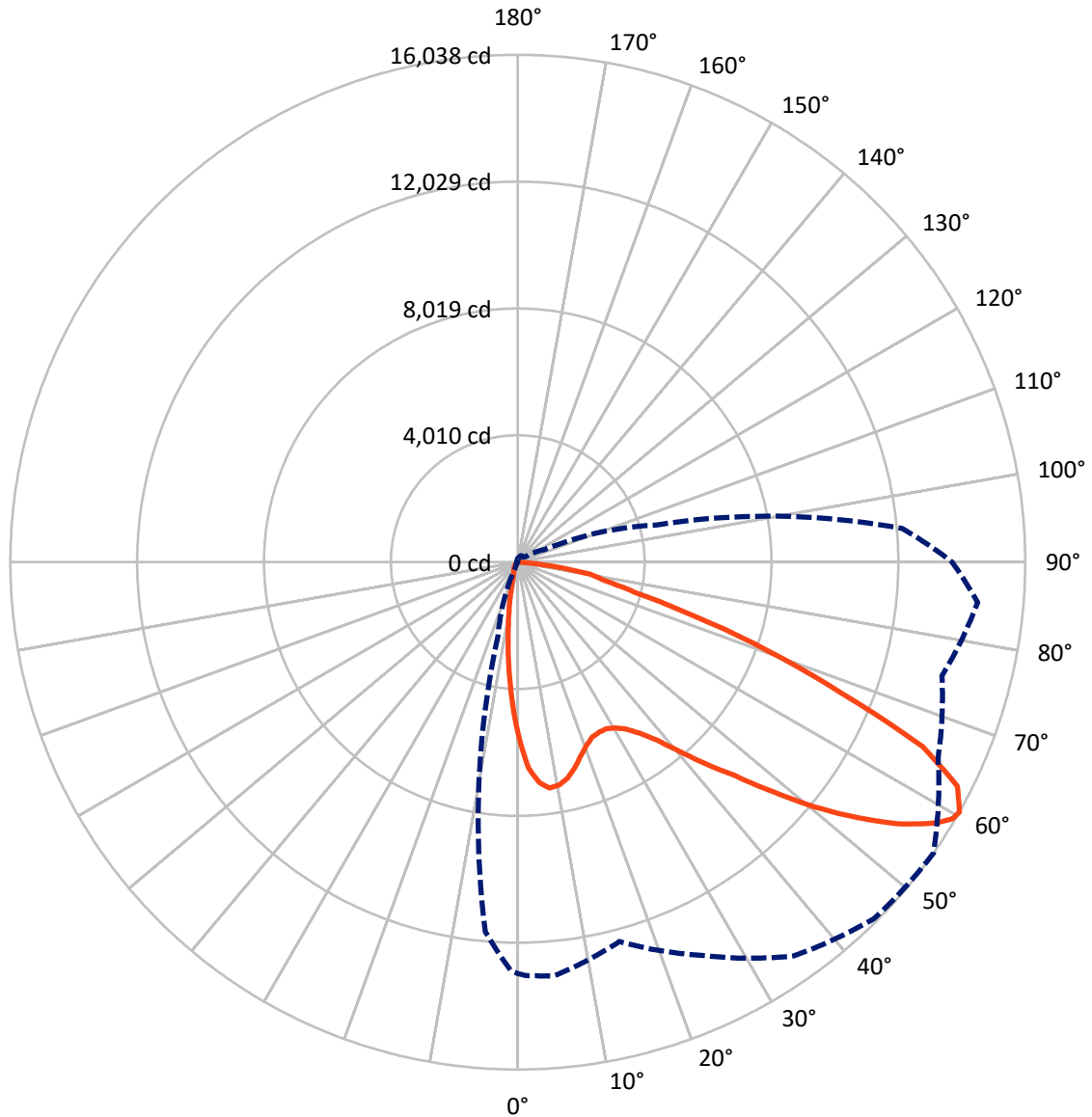
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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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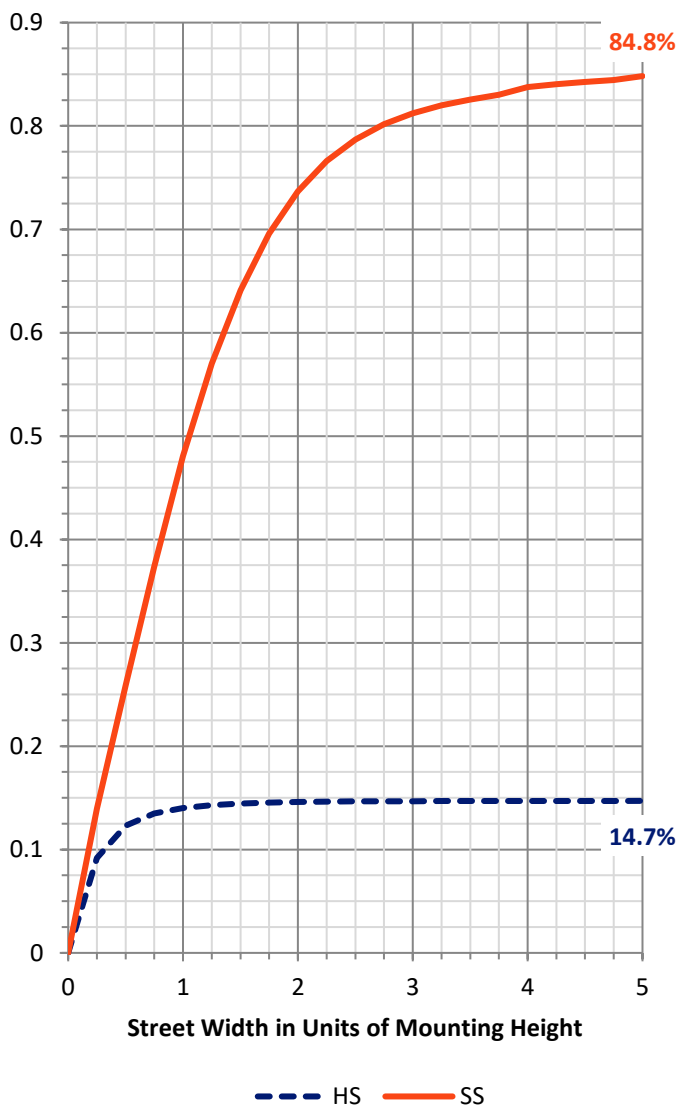
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2440.9	0.0	2440.9
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	14006.1	0.0	14006.1
	% Fixture	85.2	0.0	85.2
Total	Lumens	16447.0	0.0	16447.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.4	2.5
10°-20°	812.1	4.9
20°-30°	1202.0	7.3
30°-40°	1791.8	10.9
40°-50°	2624.0	16.0
50°-60°	3788.3	23.0
60°-70°	3985.1	24.2
70°-80°	1639.3	10.0
80°-90°	192.0	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°	16447.0	100.0
0°-180°	16447.0	100.0

Coefficient of Utilization



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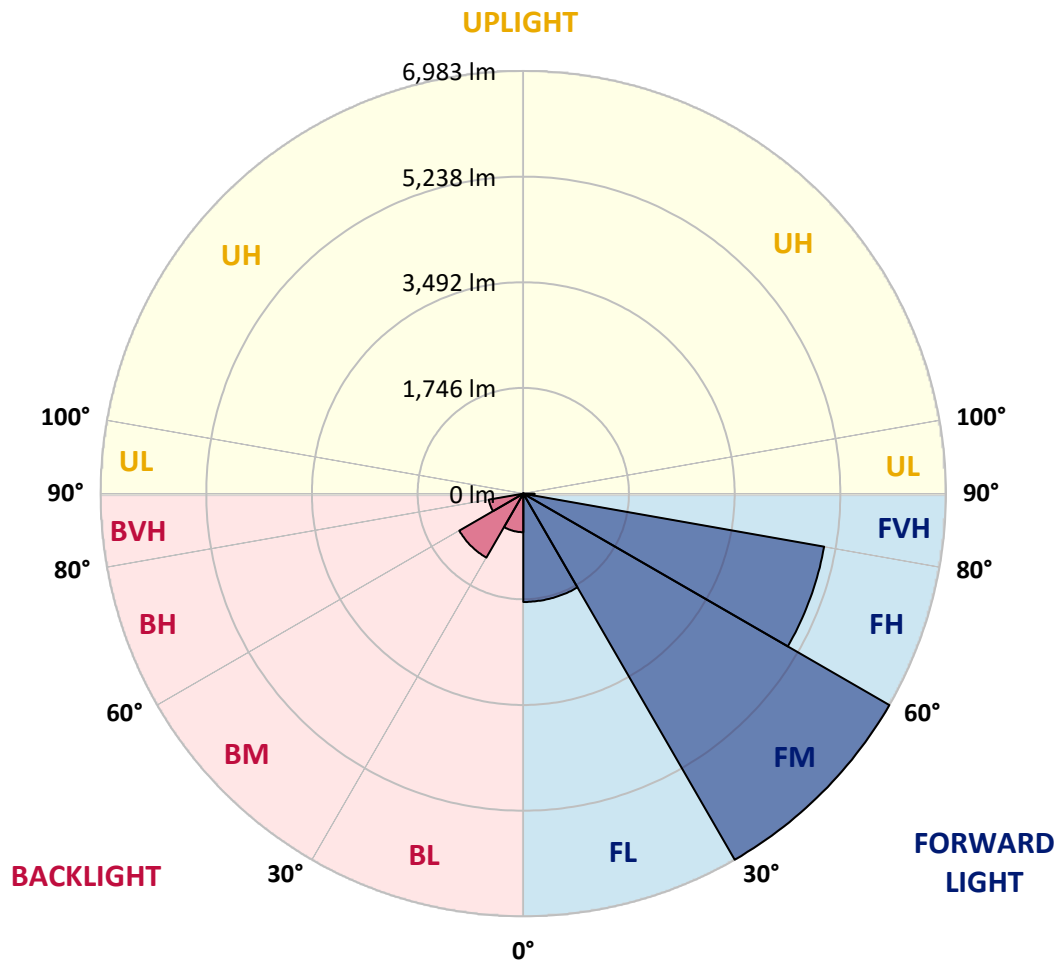
CATALOG NUMBER: GALN-SA5A-760-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1789.7	10.9			
FM	(30°-60°)	6983.4	42.5			
FH	(60°-80°)	5046.7	30.7			G3/7500
FVH	(80°-90°)	186.4	1.1			G2/225
BL	(0°-30°)	636.8	3.9	B2/1000		
BM	(30°-60°)	1220.7	7.4	B2/2500		
BH	(60°-80°)	577.7	3.5	B2/1000		G2/1000
BVH	(80°-90°)	5.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9
2.5°	6084.1	6074.0	6163.9	6310.8	6458.9	6536.1	6520.9	6514.6	6391.8	6301.9	6113.3
5°	6071.5	6123.4	6284.2	6681.7	6983.0	7128.6	7171.6	6990.6	6751.3	6404.4	5976.5
7.5°	5708.2	5772.7	6034.8	6656.4	7191.9	7508.3	7496.9	7207.0	6713.3	6176.6	5566.4
10°	5257.5	5333.4	5641.1	6395.6	7090.6	7508.3	7531.1	7164.0	6550.0	5861.3	5219.5
12.5°	4939.7	5029.6	5370.2	6152.5	6829.8	7241.2	7267.8	7002.0	6427.2	5739.8	5030.9
15°	4832.1	4916.9	5262.5	6029.7	6552.6	6774.1	6767.8	6739.9	6379.1	5768.9	5041.0
17.5°	5017.0	5086.6	5476.5	6085.4	6293.0	6270.2	6303.2	6437.3	6389.2	6013.3	5360.0
20°	5494.2	5565.1	5984.1	6256.3	6094.3	5950.0	5965.2	6189.2	6482.9	6472.8	5858.8
22.5°	6151.2	6271.5	6651.3	6588.0	6067.7	5751.2	5719.6	6010.7	6642.4	7002.0	6532.3
25°	6983.0	7104.5	7400.7	7117.2	6198.1	5704.4	5675.2	5956.3	6836.1	7518.5	7290.6
27.5°	7681.8	7774.2	8069.2	7632.4	6390.5	5724.6	5676.5	5963.9	6993.1	7957.8	7929.9
30°	8241.3	8309.7	8483.1	7872.9	6556.3	5813.2	5757.5	6075.3	7062.7	8171.7	8447.7
32.5°	8692.0	8807.2	8861.6	8129.9	6794.3	5980.3	5885.4	6289.2	7232.4	8436.3	8990.8
35°	9207.2	9340.2	9270.5	8375.5	7108.3	6241.1	6124.7	6636.1	7489.4	8680.6	9621.2
37.5°	9860.5	10013.7	9741.5	8633.8	7440.0	6633.6	6579.1	7123.5	7879.3	9030.0	10297.2
40°	10536.5	10625.1	10198.5	8947.7	7847.6	7204.5	7256.4	7847.6	8389.4	9449.0	11016.3
42.5°	11064.4	11147.9	10668.2	9211.0	8264.1	7881.8	8098.3	8721.1	8974.3	9878.2	11553.0
45°	11468.2	11539.1	10993.5	9498.4	8826.2	8862.9	9271.8	9621.2	9560.4	10140.2	11967.0
47.5°	11782.2	11843.0	11244.2	9807.3	9668.1	10063.0	10688.4	10836.5	10168.1	10423.8	12341.7
50°	11911.3	11929.0	11322.6	10201.0	10623.8	11592.3	12244.3	12154.4	10864.4	10739.0	12740.5
52.5°	12079.7	12075.9	11546.7	10575.7	11522.7	12959.5	13610.2	13406.4	11651.8	11211.2	13188.7
55°	12521.5	12526.6	12026.5	11107.4	12288.6	14063.4	14759.7	14611.6	12482.3	12008.8	13711.5
57.5°	13058.3	13077.3	12708.9	11729.0	13020.3	14863.5	15618.0	15561.0	13605.2	12896.2	14205.2
59°	13127.9	13165.9	13031.7	12167.0	13454.5	15109.1	15911.7	15967.4	14206.5	13481.1	14472.3
60°	13001.3	13064.6	13125.4	12415.2	13709.0	15197.7	15929.4	16038.3	14658.4	13878.6	14593.9
62.5°	12449.3	12549.4	12854.4	13178.5	14026.7	14921.7	15363.6	15591.4	15218.0	14923.0	14605.3
65°	11726.5	11778.4	12218.9	13314.0	13410.2	13633.0	13769.7	14062.2	14545.8	15325.6	14082.4
67.5°	10541.6	10694.7	11234.0	12527.8	11591.0	11327.7	11293.5	11002.4	12258.2	14366.0	12793.7
70°	8708.5	8776.8	9441.4	10270.6	8747.7	8342.6	8504.6	8395.8	9502.2	12367.1	10297.2
72.5°	6585.5	6739.9	7389.3	8186.9	5952.5	5427.1	5874.0	5833.5	7137.4	9939.0	7074.1
75°	4685.3	4785.3	5613.2	6407.0	4168.8	3532.0	3692.8	3843.4	4982.8	7847.6	4180.2
77.5°	3219.3	3305.4	3927.0	4237.1	3040.8	2912.9	2664.8	2810.4	3264.9	4656.2	2274.9
80°	1942.0	1938.2	2347.1	2423.0	2117.9	2459.7	2063.5	2316.7	1973.6	1992.6	881.1
82.5°	1260.9	1248.2	1435.6	1564.7	1178.6	1239.4	831.7	1198.9	1286.2	555.8	278.5
85°	564.6	588.7	689.9	910.2	516.5	274.7	169.6	368.4	548.2	279.8	0.0
87.5°	58.2	45.6	121.5	221.5	70.9	7.6	25.3	12.7	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°	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9
2.5°	6025.9	5952.5	5733.5	5528.4	5352.4	5137.2	4998.0	4779.0	4646.0	4605.5	4611.9
5°	5784.1	5572.7	5156.2	4823.3	4452.3	4240.9	3919.4	3610.5	3443.4	3381.3	3353.5
7.5°	5277.7	5051.1	4548.6	4025.7	3628.2	3257.3	3018.0	2745.8	2559.7	2406.6	2380.0
10°	4901.8	4604.3	3981.4	3419.3	3105.4	2826.9	2587.6	2315.4	2096.4	1921.7	1873.6
12.5°	4676.4	4343.5	3648.5	3177.5	2880.0	2593.9	2282.5	1967.3	1743.2	1554.6	1467.2
15°	4635.9	4249.8	3554.8	3004.1	2637.0	2291.4	1877.4	1536.9	1306.5	1128.0	1073.5
17.5°	4880.2	4418.2	3540.9	2823.1	2319.2	1829.3	1398.9	1116.6	857.0	757.0	717.8
20°	5315.7	4715.7	3539.6	2612.9	1992.6	1409.0	982.4	727.9	622.8	574.7	552.0
22.5°	5909.4	5120.8	3606.7	2431.9	1653.3	1039.3	701.3	579.8	519.0	479.8	470.9
25°	6634.8	5720.8	3771.3	2309.1	1393.8	815.3	578.5	496.3	445.6	427.9	420.3
27.5°	7279.2	6295.6	3952.3	2182.5	1207.7	721.6	536.8	454.5	414.0	400.0	388.6
30°	7835.0	6817.1	4039.6	2015.4	1058.3	660.8	544.4	486.1	433.0	391.2	372.2
32.5°	8298.3	7217.2	4096.6	1863.5	931.7	540.6	430.4	376.0	351.9	336.7	324.1
35°	8878.1	7650.1	4062.4	1777.4	867.2	492.5	392.4	324.1	283.6	253.2	240.5
37.5°	9485.8	8083.1	4002.9	1706.5	838.1	457.0	373.5	307.6	263.3	231.7	215.2
40°	10114.9	8484.4	3933.3	1640.7	811.5	434.2	362.1	293.7	249.4	215.2	197.5
42.5°	10690.9	8875.6	3905.5	1597.6	768.4	438.0	353.2	287.4	235.5	200.0	184.8
45°	11156.8	9246.5	3943.4	1574.8	721.6	431.7	355.7	279.8	224.1	189.9	174.7
47.5°	11654.3	9770.6	4066.2	1552.1	676.0	401.3	374.7	278.5	219.0	183.6	167.1
50°	12232.9	10441.5	4347.3	1496.4	620.3	368.4	398.8	277.2	212.7	176.0	159.5
52.5°	13003.8	11203.6	4637.2	1398.9	539.3	336.7	381.1	273.4	200.0	167.1	150.6
55°	13696.3	12006.3	4882.8	1283.7	436.8	291.2	343.1	257.0	178.5	151.9	136.7
57.5°	13982.4	12459.5	4875.2	1124.2	349.4	255.7	282.3	235.5	155.7	134.2	121.5
59°	13877.3	12402.5	4711.9	1006.4	319.0	236.7	234.2	232.9	145.6	121.5	111.4
60°	13729.2	12194.9	4535.9	948.2	300.0	224.1	215.2	230.4	136.7	113.9	103.8
62.5°	13162.1	11334.0	3952.3	849.5	274.7	189.9	172.2	195.0	121.5	98.7	89.9
65°	12340.5	10011.1	3345.9	821.6	267.1	157.0	143.1	139.3	103.8	83.6	76.0
67.5°	10737.8	8471.7	2710.4	802.6	269.6	131.7	125.3	105.1	86.1	69.6	64.6
70°	8597.1	6605.7	2219.2	781.1	272.2	107.6	105.1	83.6	69.6	58.2	53.2
72.5°	5223.3	3915.6	1747.0	678.5	264.6	86.1	93.7	63.3	50.6	41.8	39.2
75°	3229.4	2680.0	1083.7	527.9	174.7	63.3	65.8	39.2	34.2	26.6	26.6
77.5°	1871.1	1692.6	387.4	189.9	77.2	38.0	29.1	20.3	19.0	11.4	11.4
80°	776.0	621.6	134.2	64.6	41.8	17.7	6.3	1.3	0.0	0.0	0.0
82.5°	226.6	201.3	36.7	29.1	12.7	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°	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9
2.5°	4504.2	4462.5	4443.5	4508.0	4448.5	4524.5	4466.3	4491.6	4566.3	4599.2	4684.0
5°	3371.2	3328.2	3307.9	3405.4	3400.3	3448.4	3443.4	3487.7	3525.7	3440.8	3528.2
7.5°	2348.3	2319.2	2367.3	2443.3	2524.3	2497.7	2497.7	2438.2	2458.5	2445.8	2442.0
10°	1786.3	1686.2	1660.9	1658.4	1688.8	1695.1	1660.9	1578.6	1609.0	1617.9	1671.1
12.5°	1405.2	1328.0	1210.2	1157.1	1143.2	1154.5	1041.9	969.7	1003.9	983.6	1035.5
15°	1007.7	944.4	874.8	815.3	798.8	776.0	653.2	567.1	557.0	560.8	569.7
17.5°	719.1	676.0	676.0	612.7	578.5	510.2	448.1	410.2	406.4	410.2	416.5
20°	530.4	507.6	505.1	488.7	450.7	405.1	362.1	354.5	351.9	358.3	360.8
22.5°	457.0	433.0	412.7	411.4	376.0	338.0	317.8	307.6	308.9	311.4	317.8
25°	408.9	383.6	362.1	349.4	324.1	297.5	278.5	273.4	273.4	277.2	278.5
27.5°	374.7	343.1	324.1	306.4	283.6	260.8	244.3	240.5	238.0	240.5	246.9
30°	350.7	319.0	295.0	268.4	250.7	229.1	215.2	210.1	208.9	210.1	215.2
32.5°	300.0	281.0	262.1	238.0	216.5	202.6	187.4	178.5	178.5	181.0	186.1
35°	226.6	216.5	215.2	208.9	191.2	176.0	158.2	149.4	149.4	154.4	157.0
37.5°	200.0	181.0	178.5	176.0	168.4	148.1	131.7	124.1	122.8	126.6	131.7
40°	182.3	160.8	149.4	146.9	148.1	125.3	107.6	100.0	100.0	101.3	106.3
42.5°	168.4	143.1	122.8	120.3	125.3	105.1	87.4	79.8	79.8	79.8	86.1
45°	157.0	127.9	103.8	91.1	98.7	86.1	70.9	63.3	60.8	63.3	65.8
47.5°	149.4	116.5	91.1	73.4	73.4	68.4	57.0	48.1	45.6	46.8	50.6
50°	143.1	106.3	77.2	59.5	53.2	54.4	43.0	36.7	34.2	34.2	38.0
52.5°	132.9	96.2	67.1	50.6	40.5	36.7	31.6	26.6	25.3	26.6	29.1
55°	120.3	87.4	58.2	41.8	31.6	25.3	22.8	19.0	17.7	19.0	22.8
57.5°	106.3	73.4	46.8	32.9	21.5	16.5	15.2	12.7	10.1	11.4	13.9
59°	97.5	65.8	40.5	26.6	16.5	11.4	11.4	8.9	6.3	7.6	11.4
60°	93.7	60.8	34.2	22.8	13.9	8.9	8.9	6.3	3.8	5.1	8.9
62.5°	79.8	50.6	26.6	13.9	6.3	1.3	3.8	1.3	0.0	1.3	3.8
65°	67.1	40.5	17.7	6.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3
67.5°	55.7	30.4	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	44.3	20.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	30.4	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	19.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.6	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: P454030
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9
2.5°	4689.1	4870.1	4981.5	5191.7	5406.9	5572.7	5780.3	5966.4	6043.6	6084.1
5°	3616.8	3868.7	4082.7	4403.0	4700.5	5062.5	5429.7	5862.6	6028.4	6071.5
7.5°	2538.2	2795.2	3019.3	3390.2	3814.3	4299.2	4848.6	5398.0	5639.8	5708.2
10°	1833.1	2107.8	2381.2	2752.2	3148.4	3673.8	4246.0	4925.8	5204.3	5257.5
12.5°	1157.1	1452.0	1896.4	2354.7	2773.7	3196.5	3795.3	4534.6	4842.3	4939.7
15°	671.0	891.2	1226.7	1824.2	2357.2	2916.7	3570.0	4387.8	4732.1	4832.1
17.5°	449.4	525.4	755.8	1212.8	1916.6	2658.5	3513.0	4508.0	4889.1	5017.0
20°	378.5	412.7	493.7	739.3	1476.1	2428.1	3528.2	4834.7	5334.7	5494.2
22.5°	332.9	364.6	416.5	531.7	1030.5	2142.0	3600.4	5301.8	5947.4	6151.2
25°	293.7	325.3	370.9	440.6	692.5	1811.6	3758.6	5985.4	6758.9	6983.0
27.5°	260.8	289.9	329.1	388.6	533.0	1443.2	3899.1	6651.3	7499.5	7681.8
30°	230.4	254.5	292.4	338.0	443.1	1112.8	3970.0	7233.6	8038.8	8241.3
32.5°	200.0	222.8	259.5	296.2	364.6	848.2	3920.6	7661.5	8562.9	8692.0
35°	170.9	195.0	225.3	259.5	315.2	684.9	3673.8	8142.6	9106.0	9207.2
37.5°	146.9	167.1	198.8	225.3	284.8	548.2	3375.0	8575.5	9714.9	9860.5
40°	124.1	144.3	176.0	200.0	262.1	431.7	3105.4	9056.6	10356.7	10536.5
42.5°	101.3	125.3	153.2	192.4	225.3	329.1	2778.8	9446.5	10839.1	11064.4
45°	81.0	107.6	138.0	191.2	196.2	250.7	2463.5	9750.3	11265.7	11468.2
47.5°	64.6	91.1	132.9	178.5	160.8	198.8	2283.8	10068.1	11620.1	11782.2
50°	51.9	76.0	139.3	157.0	134.2	168.4	2278.7	10422.6	11803.7	11911.3
52.5°	41.8	62.0	117.7	120.3	113.9	148.1	2415.4	10821.3	11991.1	12079.7
55°	35.4	51.9	77.2	88.6	102.5	134.2	2518.0	11435.3	12437.9	12521.5
57.5°	27.9	44.3	59.5	70.9	91.1	122.8	2531.9	11908.8	13003.8	13058.3
59°	24.1	38.0	53.2	63.3	83.6	115.2	2474.9	11937.9	13040.5	13127.9
60°	20.3	34.2	46.8	59.5	77.2	108.9	2412.9	11726.5	12903.8	13001.3
62.5°	15.2	26.6	34.2	48.1	63.3	93.7	2119.2	10988.4	12381.0	12449.3
65°	10.1	19.0	25.3	35.4	49.4	81.0	1726.8	10031.4	11573.3	11726.5
67.5°	6.3	13.9	20.3	26.6	40.5	68.4	1230.5	8602.1	10442.8	10541.6
70°	3.8	8.9	15.2	21.5	31.6	54.4	730.5	6799.4	8688.2	8708.5
72.5°	2.5	6.3	10.1	15.2	25.3	49.4	354.5	4432.1	6343.7	6585.5
75°	1.3	3.8	6.3	11.4	20.3	40.5	169.6	2961.1	4615.6	4685.3
77.5°	0.0	1.3	3.8	7.6	15.2	31.6	98.7	1944.5	3147.1	3219.3
80°	0.0	0.0	2.5	6.3	11.4	20.3	59.5	1146.9	1906.5	1942.0
82.5°	0.0	0.0	1.3	5.1	7.6	15.2	30.4	503.8	1248.2	1260.9
85°	0.0	0.0	1.3	5.1	6.3	10.1	11.4	68.4	554.5	564.6
87.5°	0.0	0.0	1.3	6.3	6.3	6.3	6.3	3.8	46.8	58.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)