

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: P452174

Luminaire Tested: **GALN-SA3A-760-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452174
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-SA3A-760-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 9804 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

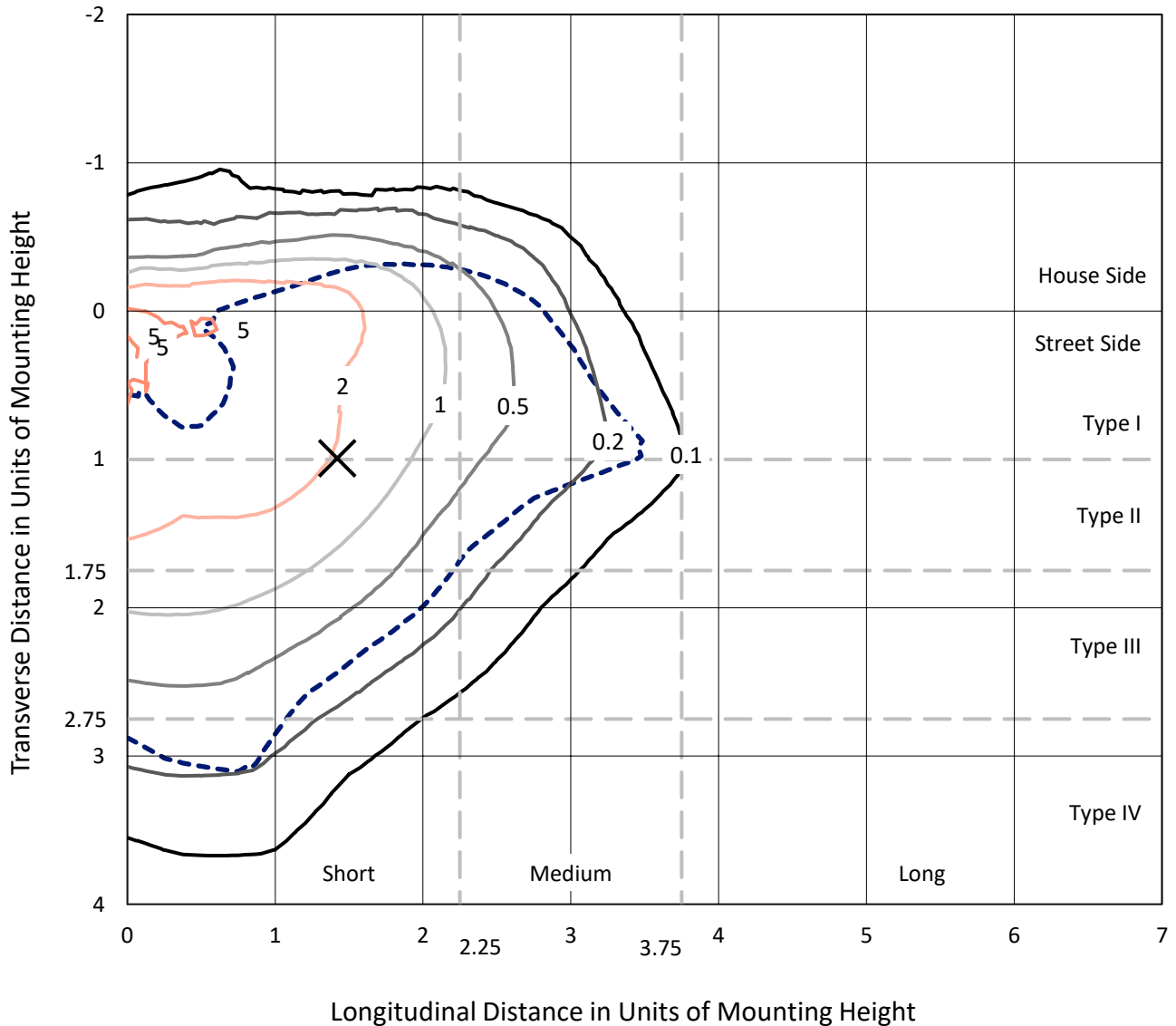
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

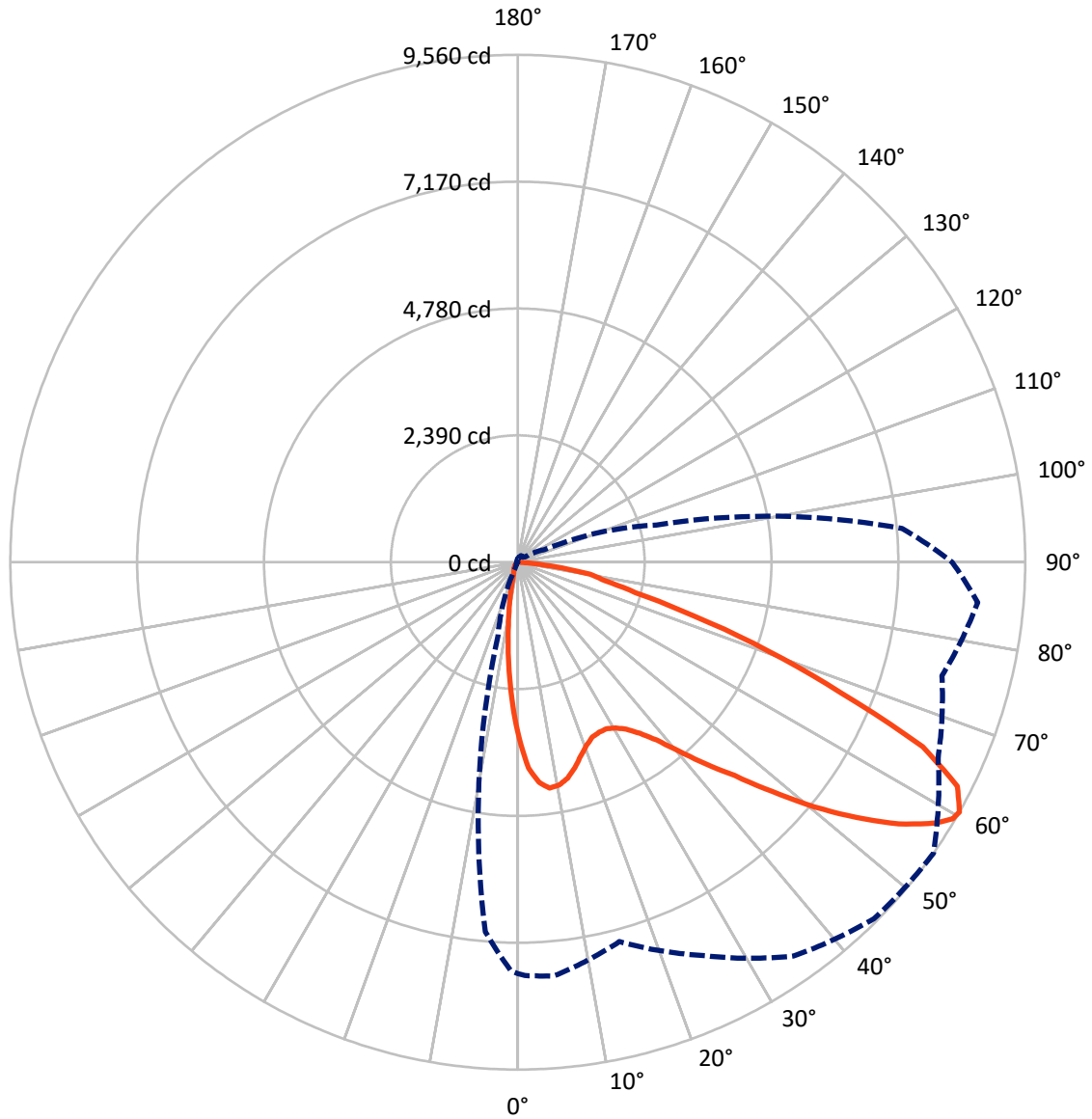
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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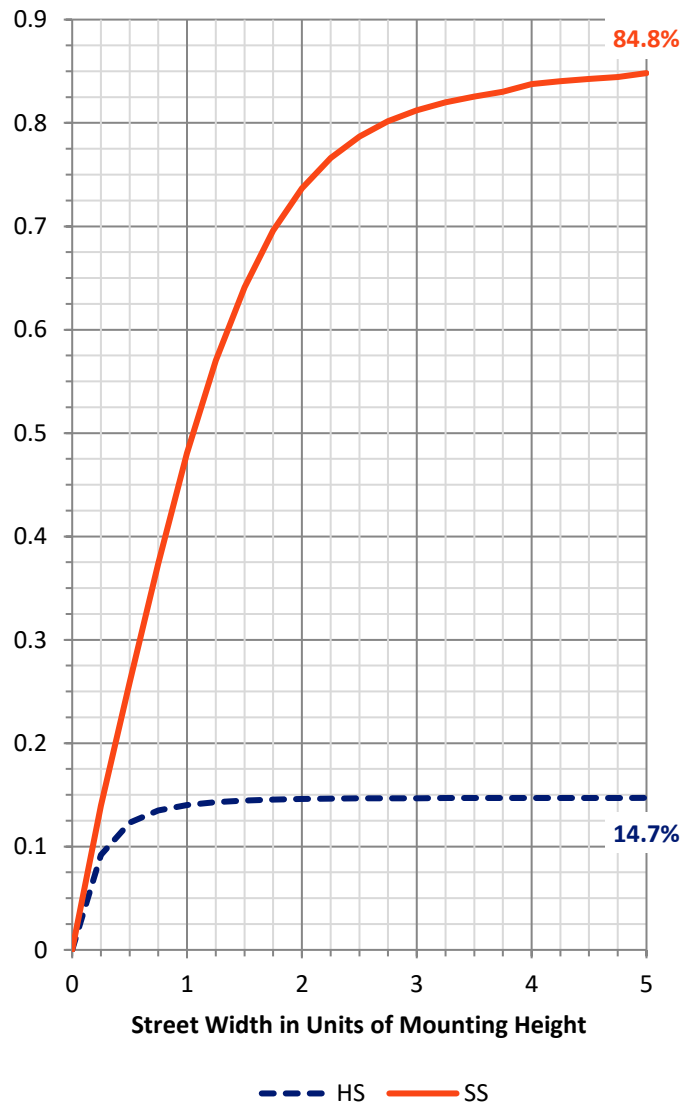
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1455.0	0.0	1455.0
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	8349.0	0.0	8349.0
	% Fixture	85.2	0.0	85.2
Total	Lumens	9804.0	0.0	9804.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.8	2.5
10°-20°	484.1	4.9
20°-30°	716.5	7.3
30°-40°	1068.1	10.9
40°-50°	1564.2	16.0
50°-60°	2258.2	23.0
60°-70°	2375.5	24.2
70°-80°	977.2	10.0
80°-90°	114.5	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°	9804.0	100.0
0°-180°	9804.0	100.0



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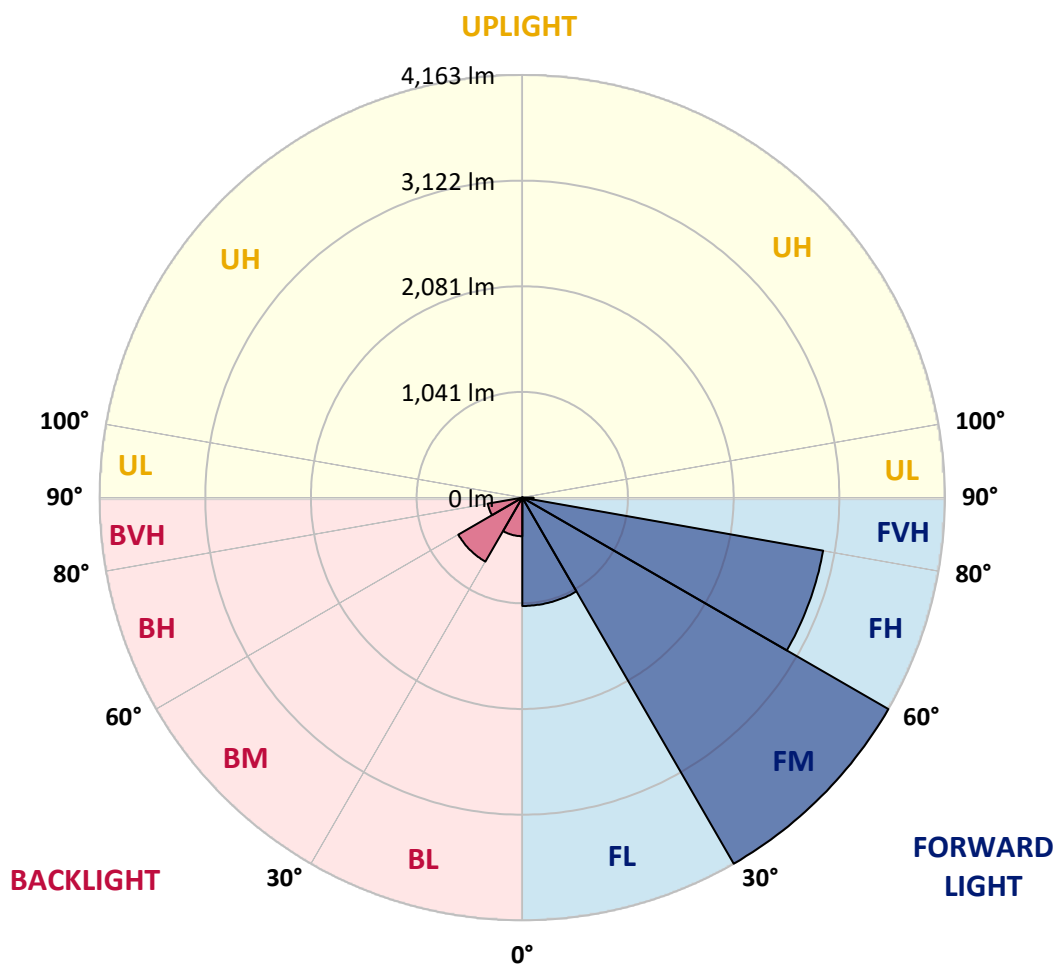
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1066.8	10.9			
FM (30°-60°)	4162.8	42.5			
FH (60°-80°)	3008.3	30.7			G2/5000
FVH (80°-90°)	111.1	1.1			G2/225
BL (0°-30°)	379.6	3.9	B1/500		
BM (30°-60°)	727.6	7.4	B1/1000		
BH (60°-80°)	344.4	3.5	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6
2.5°	3626.7	3620.7	3674.3	3761.8	3850.1	3896.1	3887.1	3883.3	3810.1	3756.5	3644.1
5°	3619.2	3650.1	3746.0	3982.9	4162.5	4249.3	4275.0	4167.1	4024.4	3817.7	3562.6
7.5°	3402.6	3441.1	3597.3	3967.8	4287.0	4475.7	4468.9	4296.1	4001.8	3681.8	3318.1
10°	3134.0	3179.2	3362.6	3812.4	4226.7	4475.7	4489.3	4270.4	3904.4	3493.9	3111.3
12.5°	2944.6	2998.1	3201.1	3667.5	4071.2	4316.5	4332.3	4173.8	3831.2	3421.5	2998.9
15°	2880.4	2931.0	3137.0	3594.3	3906.0	4038.0	4034.2	4017.6	3802.6	3438.8	3004.9
17.5°	2990.6	3032.1	3264.5	3627.5	3751.3	3737.7	3757.3	3837.3	3808.6	3584.5	3195.1
20°	3275.1	3317.3	3567.1	3729.4	3632.8	3546.8	3555.8	3689.4	3864.4	3858.4	3492.4
22.5°	3666.7	3738.4	3964.8	3927.1	3616.9	3428.3	3409.4	3583.0	3959.5	4173.8	3893.9
25°	4162.5	4235.0	4411.6	4242.5	3694.7	3400.4	3383.0	3550.5	4075.0	4481.7	4345.9
27.5°	4579.1	4634.2	4810.0	4549.7	3809.4	3412.4	3383.8	3555.1	4168.6	4743.6	4727.0
30°	4912.6	4953.4	5056.8	4693.0	3908.2	3465.3	3432.0	3621.5	4210.1	4871.1	5035.6
32.5°	5181.3	5249.9	5282.4	4846.2	4050.1	3564.9	3508.3	3749.0	4311.2	5028.8	5359.4
35°	5488.4	5567.6	5526.1	4992.6	4237.2	3720.3	3650.9	3955.8	4464.4	5174.5	5735.2
37.5°	5877.8	5969.1	5806.9	5146.6	4434.9	3954.2	3921.8	4246.3	4696.8	5382.8	6138.1
40°	6280.8	6333.6	6079.3	5333.7	4677.9	4294.6	4325.5	4677.9	5000.9	5632.5	6566.8
42.5°	6595.4	6645.3	6359.2	5490.7	4926.2	4698.3	4827.4	5198.6	5349.6	5888.4	6886.7
45°	6836.2	6878.4	6553.2	5662.0	5261.3	5283.1	5526.9	5735.2	5698.9	6044.6	7133.5
47.5°	7023.3	7059.5	6702.6	5846.1	5763.1	5998.5	6371.3	6459.6	6061.2	6213.6	7356.9
50°	7100.3	7110.9	6749.4	6080.8	6332.8	6910.1	7298.8	7245.2	6476.2	6401.5	7594.6
52.5°	7200.7	7198.4	6883.0	6304.2	6868.6	7725.1	8113.0	7991.5	6945.6	6683.0	7861.7
55°	7464.0	7467.0	7169.0	6621.1	7325.2	8383.2	8798.2	8709.9	7440.6	7158.4	8173.4
57.5°	7784.0	7795.3	7575.7	6991.6	7761.3	8860.1	9309.8	9275.9	8110.0	7687.4	8467.7
59°	7825.5	7848.1	7768.1	7252.7	8020.2	9006.5	9484.9	9518.1	8468.4	8036.0	8626.9
60°	7750.0	7787.8	7824.0	7400.6	8171.9	9059.3	9495.5	9560.4	8737.8	8273.0	8699.3
62.5°	7421.0	7480.6	7662.5	7855.7	8361.3	8894.8	9158.2	9294.0	9071.4	8895.6	8706.1
65°	6990.1	7021.1	7283.7	7936.4	7993.8	8126.6	8208.1	8382.4	8670.7	9135.5	8394.5
67.5°	6283.8	6375.1	6696.6	7467.8	6909.4	6752.4	6732.0	6558.5	7307.1	8563.5	7626.3
70°	5191.1	5231.8	5628.0	6122.3	5214.5	4973.0	5069.6	5004.7	5664.2	7372.0	6138.1
72.5°	3925.6	4017.6	4404.8	4880.2	3548.3	3235.1	3501.5	3477.3	4254.6	5924.6	4216.9
75°	2792.9	2852.5	3346.0	3819.2	2485.0	2105.4	2201.2	2291.0	2970.2	4677.9	2491.8
77.5°	1919.0	1970.3	2340.9	2525.7	1812.6	1736.4	1588.5	1675.3	1946.2	2775.5	1356.1
80°	1157.6	1155.3	1399.1	1444.4	1262.5	1466.2	1230.0	1381.0	1176.5	1187.8	525.2
82.5°	751.6	744.1	855.7	932.7	702.6	738.8	495.8	714.6	766.7	331.3	166.0
85°	336.6	350.9	411.3	542.6	307.9	163.8	101.1	219.6	326.8	166.8	0.0
87.5°	34.7	27.2	72.4	132.1	42.3	4.5	15.1	7.5	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°	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6
2.5°	3592.0	3548.3	3417.7	3295.5	3190.6	3062.3	2979.3	2848.7	2769.5	2745.3	2749.1
5°	3447.9	3321.9	3073.6	2875.1	2654.0	2528.0	2336.3	2152.2	2052.6	2015.6	1999.0
7.5°	3146.0	3011.0	2711.4	2399.7	2162.8	1941.7	1799.0	1636.8	1525.9	1434.5	1418.7
10°	2921.9	2744.6	2373.3	2038.2	1851.1	1685.1	1542.5	1380.2	1249.7	1145.5	1116.8
12.5°	2787.6	2589.1	2174.8	1894.1	1716.8	1546.2	1360.6	1172.7	1039.1	926.7	874.6
15°	2763.4	2533.3	2119.0	1790.7	1571.9	1365.9	1119.1	916.1	778.8	672.4	639.9
17.5°	2909.1	2633.7	2110.7	1682.8	1382.5	1090.4	833.9	665.6	510.9	451.3	427.9
20°	3168.7	2811.0	2109.9	1557.6	1187.8	839.9	585.6	433.9	371.3	342.6	329.0
22.5°	3522.6	3052.5	2149.9	1449.6	985.5	619.5	418.1	345.6	309.4	286.0	280.7
25°	3955.0	3410.2	2248.0	1376.4	830.8	486.0	344.9	295.8	265.6	255.1	250.5
27.5°	4339.1	3752.8	2355.9	1301.0	719.9	430.1	320.0	270.9	246.8	238.5	231.7
30°	4670.4	4063.7	2408.0	1201.4	630.9	393.9	324.5	289.8	258.1	233.2	221.9
32.5°	4946.6	4302.1	2442.0	1110.8	555.4	322.2	256.6	224.1	209.8	200.7	193.2
35°	5292.2	4560.2	2421.6	1059.5	516.9	293.6	233.9	193.2	169.0	150.9	143.4
37.5°	5654.4	4818.3	2386.1	1017.2	499.6	272.4	222.6	183.4	157.0	138.1	128.3
40°	6029.5	5057.5	2344.6	978.0	483.7	258.8	215.8	175.1	148.7	128.3	117.7
42.5°	6372.8	5290.7	2328.0	952.3	458.1	261.1	210.5	171.3	140.4	119.2	110.2
45°	6650.5	5511.8	2350.7	938.8	430.1	257.3	212.1	166.8	133.6	113.2	104.1
47.5°	6947.1	5824.2	2423.9	925.2	403.0	239.2	223.4	166.0	130.6	109.4	99.6
50°	7292.0	6224.2	2591.4	892.0	369.8	219.6	237.7	165.3	126.8	104.9	95.1
52.5°	7751.5	6678.5	2764.2	833.9	321.5	200.7	227.1	163.0	119.2	99.6	89.8
55°	8164.3	7156.9	2910.6	765.2	260.3	173.6	204.5	153.2	106.4	90.6	81.5
57.5°	8334.9	7427.0	2906.1	670.1	208.3	152.4	168.3	140.4	92.8	80.0	72.4
59°	8272.2	7393.1	2808.7	599.9	190.2	141.1	139.6	138.9	86.8	72.4	66.4
60°	8183.9	7269.3	2703.8	565.2	178.8	133.6	128.3	137.3	81.5	67.9	61.9
62.5°	7845.9	6756.2	2355.9	506.4	163.8	113.2	102.6	116.2	72.4	58.9	53.6
65°	7356.1	5967.6	1994.5	489.8	159.2	93.6	85.3	83.0	61.9	49.8	45.3
67.5°	6400.8	5050.0	1615.7	478.4	160.7	78.5	74.7	62.6	51.3	41.5	38.5
70°	5124.7	3937.6	1322.9	465.6	162.2	64.1	62.6	49.8	41.5	34.7	31.7
72.5°	3113.6	2334.1	1041.4	404.5	157.7	51.3	55.8	37.7	30.2	24.9	23.4
75°	1925.1	1597.5	646.0	314.7	104.1	37.7	39.2	23.4	20.4	15.8	15.8
77.5°	1115.3	1008.9	230.9	113.2	46.0	22.6	17.4	12.1	11.3	6.8	6.8
80°	462.6	370.5	80.0	38.5	24.9	10.6	3.8	0.8	0.0	0.0	0.0
82.5°	135.1	120.0	21.9	17.4	7.5	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°	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6
2.5°	2685.0	2660.1	2648.7	2687.2	2651.8	2697.0	2662.3	2677.4	2721.9	2741.6	2792.1
5°	2009.6	1983.9	1971.8	2029.9	2026.9	2055.6	2052.6	2079.0	2101.6	2051.1	2103.1
7.5°	1399.8	1382.5	1411.2	1456.4	1504.7	1488.9	1488.9	1453.4	1465.5	1457.9	1455.7
10°	1064.8	1005.2	990.1	988.6	1006.7	1010.4	990.1	941.0	959.1	964.4	996.1
12.5°	837.6	791.6	721.4	689.7	681.4	688.2	621.1	578.0	598.4	586.3	617.3
15°	600.7	563.0	521.4	486.0	476.2	462.6	389.4	338.1	332.0	334.3	339.6
17.5°	428.6	403.0	403.0	365.2	344.9	304.1	267.1	244.5	242.2	244.5	248.3
20°	316.2	302.6	301.1	291.3	268.6	241.5	215.8	211.3	209.8	213.6	215.1
22.5°	272.4	258.1	246.0	245.3	224.1	201.5	189.4	183.4	184.1	185.6	189.4
25°	243.7	228.7	215.8	208.3	193.2	177.3	166.0	163.0	163.0	165.3	166.0
27.5°	223.4	204.5	193.2	182.6	169.0	155.5	145.6	143.4	141.9	143.4	147.2
30°	209.0	190.2	175.8	160.0	149.4	136.6	128.3	125.3	124.5	125.3	128.3
32.5°	178.8	167.5	156.2	141.9	129.0	120.7	111.7	106.4	106.4	107.9	110.9
35°	135.1	129.0	128.3	124.5	113.9	104.9	94.3	89.0	89.0	92.1	93.6
37.5°	119.2	107.9	106.4	104.9	100.4	88.3	78.5	74.0	73.2	75.5	78.5
40°	108.7	95.8	89.0	87.5	88.3	74.7	64.1	59.6	59.6	60.4	63.4
42.5°	100.4	85.3	73.2	71.7	74.7	62.6	52.1	47.5	47.5	47.5	51.3
45°	93.6	76.2	61.9	54.3	58.9	51.3	42.3	37.7	36.2	37.7	39.2
47.5°	89.0	69.4	54.3	43.8	43.8	40.7	34.0	28.7	27.2	27.9	30.2
50°	85.3	63.4	46.0	35.5	31.7	32.4	25.7	21.9	20.4	20.4	22.6
52.5°	79.2	57.4	40.0	30.2	24.1	21.9	18.9	15.8	15.1	15.8	17.4
55°	71.7	52.1	34.7	24.9	18.9	15.1	13.6	11.3	10.6	11.3	13.6
57.5°	63.4	43.8	27.9	19.6	12.8	9.8	9.1	7.5	6.0	6.8	8.3
59°	58.1	39.2	24.1	15.8	9.8	6.8	6.8	5.3	3.8	4.5	6.8
60°	55.8	36.2	20.4	13.6	8.3	5.3	5.3	3.8	2.3	3.0	5.3
62.5°	47.5	30.2	15.8	8.3	3.8	0.8	2.3	0.8	0.0	0.8	2.3
65°	40.0	24.1	10.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8
67.5°	33.2	18.1	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	26.4	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	18.1	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	11.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.5	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: P452174
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6	3319.6
2.5°	2795.1	2903.1	2969.5	3094.7	3223.0	3321.9	3445.6	3556.6	3602.6	3626.7
5°	2156.0	2306.1	2433.7	2624.6	2801.9	3017.8	3236.6	3494.7	3593.5	3619.2
7.5°	1513.0	1666.2	1799.8	2020.9	2273.7	2562.7	2890.2	3217.7	3361.9	3402.6
10°	1092.7	1256.5	1419.5	1640.6	1876.8	2189.9	2531.0	2936.3	3102.3	3134.0
12.5°	689.7	865.6	1130.4	1403.6	1653.4	1905.4	2262.4	2703.1	2886.5	2944.6
15°	400.0	531.3	731.2	1087.4	1405.1	1738.7	2128.1	2615.5	2820.8	2880.4
17.5°	267.9	313.2	450.5	722.9	1142.5	1584.7	2094.1	2687.2	2914.4	2990.6
20°	225.6	246.0	294.3	440.7	879.9	1447.4	2103.1	2881.9	3180.0	3275.1
22.5°	198.5	217.3	248.3	316.9	614.3	1276.8	2146.2	3160.4	3545.2	3666.7
25°	175.1	193.9	221.1	262.6	412.8	1079.9	2240.5	3567.9	4029.0	4162.5
27.5°	155.5	172.8	196.2	231.7	317.7	860.3	2324.3	3964.8	4470.4	4579.1
30°	137.3	151.7	174.3	201.5	264.1	663.3	2366.5	4311.9	4791.9	4912.6
32.5°	119.2	132.8	154.7	176.6	217.3	505.6	2337.1	4567.0	5104.3	5181.3
35°	101.9	116.2	134.3	154.7	187.9	408.3	2189.9	4853.8	5428.0	5488.4
37.5°	87.5	99.6	118.5	134.3	169.8	326.8	2011.8	5111.8	5791.0	5877.8
40°	74.0	86.0	104.9	119.2	156.2	257.3	1851.1	5398.6	6173.6	6280.8
42.5°	60.4	74.7	91.3	114.7	134.3	196.2	1656.4	5631.0	6461.1	6595.4
45°	48.3	64.1	82.3	113.9	117.0	149.4	1468.5	5812.1	6715.4	6836.2
47.5°	38.5	54.3	79.2	106.4	95.8	118.5	1361.3	6001.6	6926.7	7023.3
50°	30.9	45.3	83.0	93.6	80.0	100.4	1358.3	6212.8	7036.1	7100.3
52.5°	24.9	37.0	70.2	71.7	67.9	88.3	1439.8	6450.6	7147.8	7200.7
55°	21.1	30.9	46.0	52.8	61.1	80.0	1501.0	6816.6	7414.2	7464.0
57.5°	16.6	26.4	35.5	42.3	54.3	73.2	1509.3	7098.8	7751.5	7784.0
59°	14.3	22.6	31.7	37.7	49.8	68.7	1475.3	7116.1	7773.4	7825.5
60°	12.1	20.4	27.9	35.5	46.0	64.9	1438.3	6990.1	7691.9	7750.0
62.5°	9.1	15.8	20.4	28.7	37.7	55.8	1263.2	6550.2	7380.3	7421.0
65°	6.0	11.3	15.1	21.1	29.4	48.3	1029.3	5979.7	6898.8	6990.1
67.5°	3.8	8.3	12.1	15.8	24.1	40.7	733.5	5127.7	6224.9	6283.8
70°	2.3	5.3	9.1	12.8	18.9	32.4	435.4	4053.1	5179.0	5191.1
72.5°	1.5	3.8	6.0	9.1	15.1	29.4	211.3	2642.0	3781.4	3925.6
75°	0.8	2.3	3.8	6.8	12.1	24.1	101.1	1765.1	2751.4	2792.9
77.5°	0.0	0.8	2.3	4.5	9.1	18.9	58.9	1159.1	1876.0	1919.0
80°	0.0	0.0	1.5	3.8	6.8	12.1	35.5	683.7	1136.5	1157.6
82.5°	0.0	0.0	0.8	3.0	4.5	9.1	18.1	300.3	744.1	751.6
85°	0.0	0.0	0.8	3.0	3.8	6.0	6.8	40.7	330.5	336.6
87.5°	0.0	0.0	0.8	3.8	3.8	3.8	3.8	2.3	27.9	34.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)