

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: P651296

Luminaire Tested: **GALN-SA3D-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651296
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-SA3D-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA 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: 13948 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

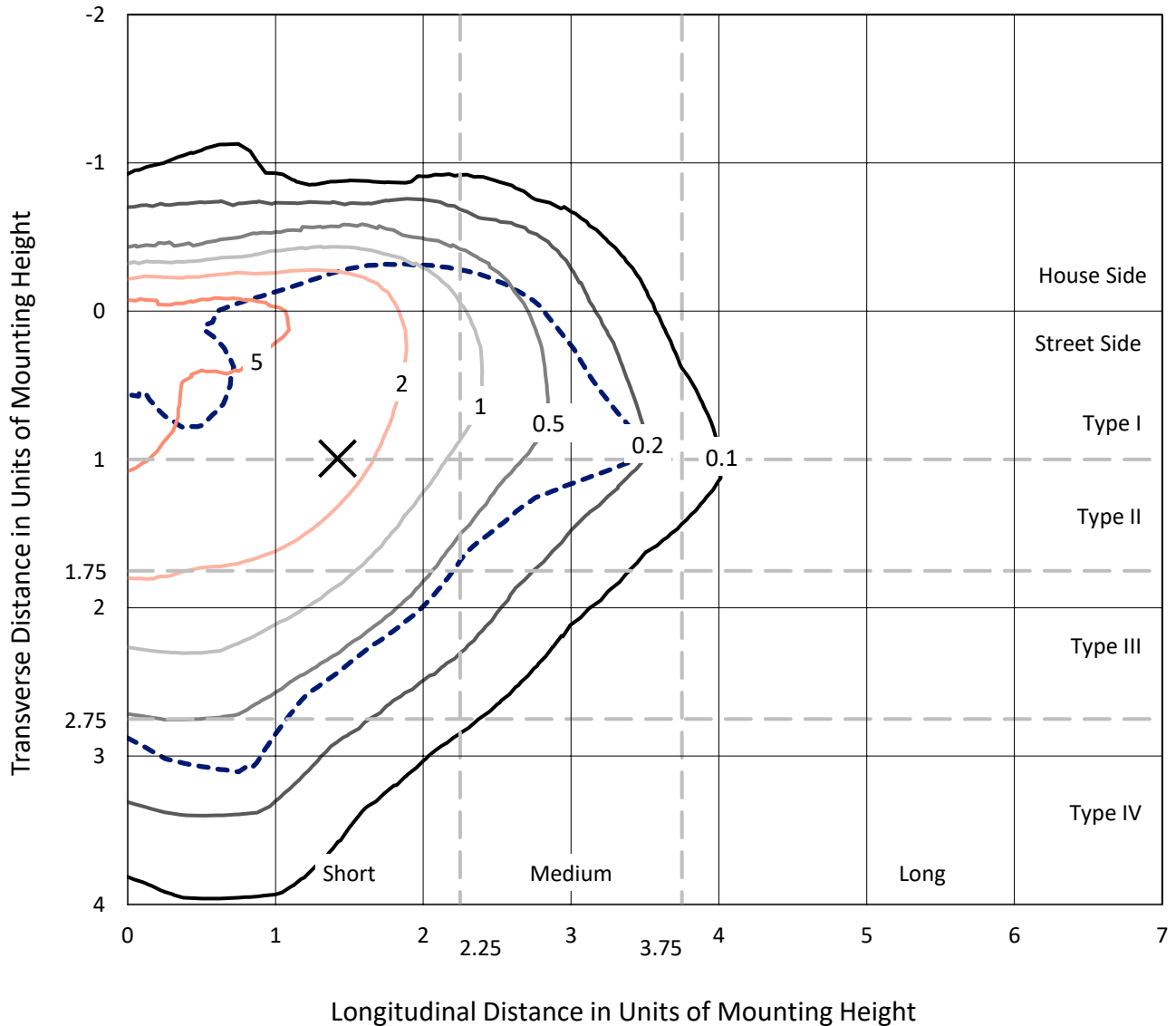
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

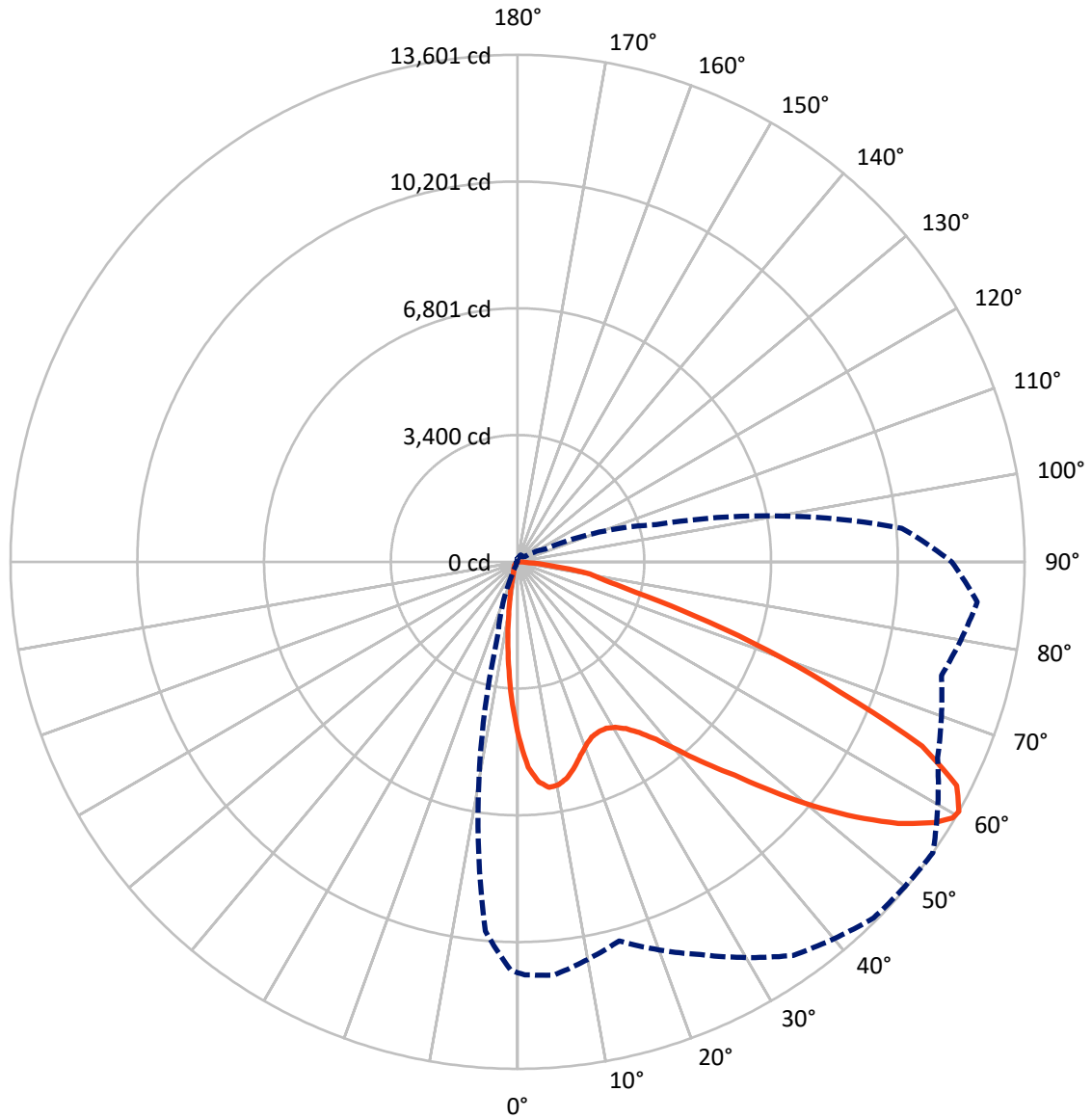
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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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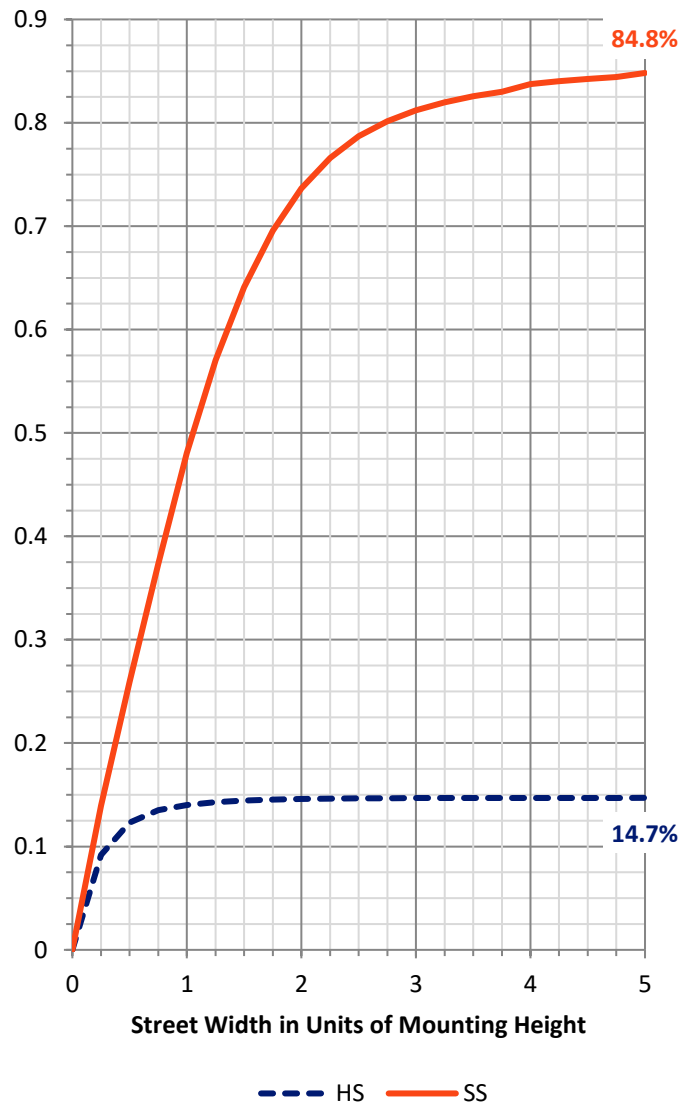
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2070.0	0.0	2070.0
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	11878.0	0.0	11878.0
	% Fixture	85.2	0.0	85.2
Total	Lumens	13948.0	0.0	13948.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.7	2.5
10°-20°	688.7	4.9
20°-30°	1019.4	7.3
30°-40°	1519.5	10.9
40°-50°	2225.3	16.0
50°-60°	3212.7	23.0
60°-70°	3379.6	24.2
70°-80°	1390.2	10.0
80°-90°	162.8	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°	13948.0	100.0
0°-180°	13948.0	100.0

Coefficient of Utilization



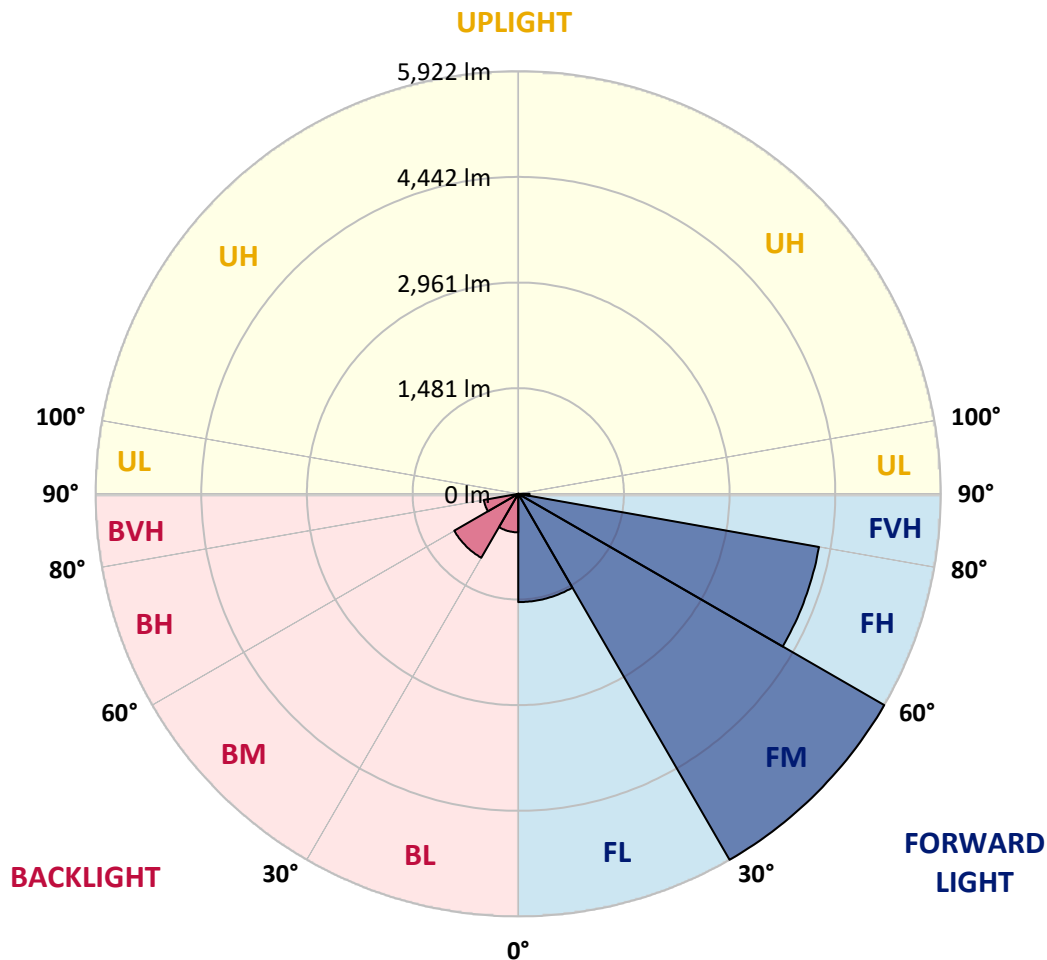
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1517.7	10.9			
FM (30°-60°)	5922.3	42.5			
FH (60°-80°)	4279.9	30.7			G2/5000
FVH (80°-90°)	158.0	1.1			G2/225
BL (0°-30°)	540.1	3.9	B2/1000		
BM (30°-60°)	1035.2	7.4	B2/2500		
BH (60°-80°)	490.0	3.5	B1/500		G1/500
BVH (80°-90°)	4.8	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7
2.5°	5159.7	5151.1	5227.3	5351.9	5477.5	5542.9	5530.1	5524.7	5420.6	5344.4	5184.4
5°	5148.9	5193.0	5329.3	5666.4	5922.0	6045.4	6081.9	5928.4	5725.5	5431.3	5068.5
7.5°	4840.9	4895.6	5117.8	5645.0	6099.1	6367.5	6357.9	6112.0	5693.3	5238.1	4720.6
10°	4458.6	4523.1	4783.9	5423.8	6013.2	6367.5	6386.8	6075.5	5554.8	4970.7	4426.4
12.5°	4189.2	4265.4	4554.2	5217.6	5792.1	6141.0	6163.5	5938.0	5450.7	4867.7	4266.5
15°	4097.9	4169.8	4462.9	5113.5	5556.9	5744.8	5739.4	5715.9	5409.8	4892.3	4275.1
17.5°	4254.7	4313.7	4644.3	5160.8	5336.8	5317.6	5345.4	5459.3	5418.5	5099.6	4545.6
20°	4659.4	4719.5	5074.9	5305.7	5168.3	5045.9	5058.8	5248.8	5497.9	5489.3	4968.6
22.5°	5216.6	5318.6	5640.7	5587.0	5145.7	4877.4	4850.5	5097.5	5633.2	5938.0	5539.8
25°	5922.0	6025.0	6276.2	6035.8	5256.3	4837.6	4813.0	5051.3	5797.4	6376.1	6182.9
27.5°	6514.6	6592.9	6843.1	6472.7	5419.5	4854.8	4814.0	5057.7	5930.6	6748.6	6725.0
30°	6989.1	7047.1	7194.2	6676.7	5560.2	4929.9	4882.7	5152.2	5989.6	6930.1	7164.1
32.5°	7371.3	7469.0	7515.2	6894.6	5762.0	5071.7	4991.2	5333.6	6133.4	7154.5	7624.7
35°	7808.3	7921.0	7861.9	7102.9	6028.2	5292.8	5194.0	5627.8	6351.4	7361.6	8159.3
37.5°	8362.2	8492.2	8261.3	7321.9	6309.5	5625.6	5579.4	6041.2	6682.1	7658.0	8732.6
40°	8935.5	9010.7	8648.9	7588.2	6655.3	6109.9	6153.8	6655.3	7114.7	8013.3	9342.4
42.5°	9383.2	9454.1	9047.2	7811.5	7008.5	6684.2	6867.8	7396.0	7610.7	8377.3	9797.6
45°	9725.7	9785.8	9323.1	8055.2	7485.2	7516.3	7863.0	8159.3	8107.8	8599.5	10148.7
47.5°	9991.9	10043.5	9535.7	8317.2	8199.1	8534.0	9064.4	9189.9	8623.1	8840.0	10466.5
50°	10101.5	10116.5	9602.2	8651.0	9009.6	9831.0	10383.8	10307.6	9213.6	9107.4	10804.7
52.5°	10244.2	10241.0	9792.3	8968.8	9771.8	10990.4	11542.2	11369.4	9881.4	9507.8	11184.7
55°	10619.0	10623.3	10199.1	9419.7	10421.4	11926.6	12517.0	12391.5	10585.7	10184.2	11628.1
57.5°	11074.1	11090.3	10777.8	9946.8	11041.9	12605.1	13245.0	13196.6	11537.9	10936.7	12046.8
59°	11133.2	11165.4	11051.6	10318.3	11410.2	12813.4	13494.0	13541.3	12047.9	11432.7	12273.4
60°	11025.8	11079.5	11131.1	10528.7	11626.0	12888.5	13509.1	13601.4	12431.2	11769.8	12376.4
62.5°	10557.7	10642.5	10901.3	11176.1	11895.4	12654.4	13029.2	13222.4	12905.7	12655.5	12386.1
65°	9944.7	9988.7	10362.4	11291.0	11372.6	11561.6	11677.5	11925.5	12335.6	12997.0	11942.7
67.5°	8939.8	9069.8	9527.1	10624.3	9829.9	9606.6	9577.6	9330.6	10395.6	12183.1	10849.7
70°	7385.2	7443.3	8006.9	8710.1	7418.5	7075.0	7212.4	7120.1	8058.4	10487.9	8732.6
72.5°	5584.8	5715.9	6266.5	6943.0	5048.0	4602.5	4981.5	4947.1	6052.9	8428.8	5999.3
75°	3973.4	4058.2	4760.3	5433.4	3535.3	2995.3	3131.7	3259.5	4225.7	6655.3	3545.0
77.5°	2730.1	2803.1	3330.3	3593.3	2578.8	2470.4	2259.9	2383.4	2768.8	3948.7	1929.3
80°	1646.9	1643.7	1990.5	2054.9	1796.1	2086.0	1750.0	1964.7	1673.8	1689.8	747.2
82.5°	1069.3	1058.6	1217.4	1326.9	999.5	1051.1	705.3	1016.7	1090.8	471.3	236.2
85°	478.9	499.2	585.1	772.0	438.0	233.0	143.9	312.4	464.9	237.2	0.0
87.5°	49.4	38.7	103.1	187.9	60.1	6.5	21.4	10.8	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°	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7
2.5°	5110.3	5048.0	4862.3	4688.4	4539.1	4356.6	4238.6	4052.9	3940.1	3905.8	3911.1
5°	4905.3	4726.0	4372.8	4090.4	3775.8	3596.5	3323.9	3061.9	2920.2	2867.6	2843.9
7.5°	4475.8	4283.6	3857.4	3414.0	3077.0	2762.3	2559.4	2328.6	2170.8	2040.9	2018.4
10°	4157.0	3904.7	3376.4	2899.8	2633.5	2397.4	2194.4	1963.6	1777.9	1629.7	1588.9
12.5°	3965.9	3683.5	3094.1	2694.7	2442.4	2199.8	1935.7	1668.4	1478.3	1318.4	1244.3
15°	3931.5	3604.0	3014.6	2547.6	2236.3	1943.2	1592.2	1303.4	1107.9	956.6	910.4
17.5°	4138.7	3746.8	3002.9	2394.2	1966.8	1551.3	1186.3	946.9	726.8	642.0	608.7
20°	4508.0	3999.1	3001.8	2215.9	1689.8	1194.9	833.1	617.3	528.2	487.4	468.1
22.5°	5011.5	4342.7	3058.7	2062.4	1402.1	881.5	594.8	491.7	440.2	406.9	399.4
25°	5626.7	4851.6	3198.2	1958.3	1182.0	691.4	490.6	420.8	377.9	362.9	356.4
27.5°	6173.2	5339.0	3351.8	1850.9	1024.2	611.9	455.2	385.4	351.0	339.3	329.6
30°	6644.5	5781.3	3425.8	1709.2	897.5	560.4	461.6	412.3	367.2	331.8	315.6
32.5°	7037.4	6120.5	3474.2	1580.3	790.2	458.4	365.0	318.8	298.5	285.6	274.8
35°	7529.1	6487.7	3445.2	1507.3	735.5	417.6	332.8	274.8	240.5	214.7	203.9
37.5°	8044.4	6854.9	3394.7	1447.2	710.7	387.5	316.7	260.9	223.3	196.5	182.5
40°	8578.0	7195.3	3335.7	1391.4	688.2	368.3	307.0	249.1	211.5	182.5	167.4
42.5°	9066.5	7527.0	3312.0	1354.9	651.7	371.5	299.6	243.7	199.7	169.6	156.8
45°	9461.6	7841.6	3344.2	1335.6	611.9	366.1	301.7	237.2	190.1	161.1	148.2
47.5°	9883.5	8286.0	3448.4	1316.2	573.3	340.4	317.8	236.2	185.7	155.7	141.7
50°	10374.2	8855.1	3686.7	1269.0	526.0	312.4	338.2	235.1	180.4	149.2	135.2
52.5°	11027.9	9501.4	3932.6	1186.3	457.3	285.6	323.1	231.9	169.6	141.7	127.7
55°	11615.2	10182.0	4140.8	1088.6	370.4	246.9	291.0	217.9	151.4	128.8	116.0
57.5°	11857.8	10566.3	4134.4	953.4	296.3	216.9	239.4	199.7	132.0	113.8	103.1
59°	11768.8	10518.1	3995.9	853.5	270.5	200.7	198.6	197.6	123.5	103.1	94.4
60°	11643.1	10341.9	3846.7	804.2	254.4	190.1	182.5	195.4	116.0	96.6	88.1
62.5°	11162.2	9611.9	3351.8	720.4	233.0	161.1	146.0	165.3	103.1	83.8	76.2
65°	10465.4	8490.0	2837.5	696.8	226.6	133.1	121.4	118.1	88.1	70.9	64.4
67.5°	9106.3	7184.5	2298.5	680.6	228.7	111.7	106.3	89.1	73.0	59.0	54.7
70°	7290.8	5602.0	1882.0	662.4	230.9	91.2	89.1	70.9	59.0	49.4	45.1
72.5°	4429.6	3320.6	1481.6	575.4	224.4	73.0	79.5	53.7	43.0	35.4	33.3
75°	2738.7	2272.8	919.0	447.7	148.2	53.7	55.8	33.3	29.0	22.5	22.5
77.5°	1586.8	1435.4	328.5	161.1	65.5	32.2	24.7	17.2	16.1	9.7	9.7
80°	658.1	527.1	113.8	54.7	35.4	15.1	5.4	1.1	0.0	0.0	0.0
82.5°	192.2	170.7	31.1	24.7	10.8	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°	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7
2.5°	3819.8	3784.4	3768.4	3823.1	3772.6	3837.1	3787.6	3809.1	3872.5	3900.4	3972.3
5°	2859.0	2822.5	2805.3	2888.0	2883.7	2924.5	2920.2	2957.8	2989.9	2918.0	2992.1
7.5°	1991.5	1966.8	2007.6	2072.1	2140.8	2118.2	2118.2	2067.8	2084.9	2074.2	2071.0
10°	1514.8	1430.0	1408.6	1406.4	1432.1	1437.5	1408.6	1338.8	1364.5	1372.1	1417.2
12.5°	1191.7	1126.2	1026.4	981.3	969.4	979.1	883.6	822.4	851.3	834.2	878.2
15°	854.6	800.9	741.8	691.4	677.4	658.1	554.0	481.0	472.4	475.6	483.2
17.5°	609.8	573.3	573.3	519.7	490.6	432.7	380.0	347.8	344.6	347.8	353.2
20°	449.9	430.5	428.4	414.4	382.2	343.5	307.0	300.6	298.5	303.9	306.0
22.5°	387.5	367.2	350.0	348.9	318.8	286.6	269.5	260.9	262.0	264.1	269.5
25°	346.7	325.3	307.0	296.3	274.8	252.3	236.2	231.9	231.9	235.1	236.2
27.5°	317.8	291.0	274.8	259.8	240.5	221.2	207.2	203.9	201.8	203.9	209.3
30°	297.4	270.5	250.1	227.6	212.6	194.4	182.5	178.2	177.1	178.2	182.5
32.5°	254.4	238.3	222.3	201.8	183.6	171.8	158.9	151.4	151.4	153.5	157.9
35°	192.2	183.6	182.5	177.1	162.1	149.2	134.2	126.7	126.7	130.9	133.1
37.5°	169.6	153.5	151.4	149.2	142.8	125.6	111.7	105.2	104.1	107.4	111.7
40°	154.6	136.3	126.7	124.6	125.6	106.3	91.2	84.8	84.8	85.9	90.2
42.5°	142.8	121.4	104.1	102.0	106.3	89.1	74.1	67.6	67.6	67.6	73.0
45°	133.1	108.4	88.1	77.3	83.8	73.0	60.1	53.7	51.6	53.7	55.8
47.5°	126.7	98.7	77.3	62.2	62.2	57.9	48.3	40.8	38.7	39.7	43.0
50°	121.4	90.2	65.5	50.5	45.1	46.2	36.5	31.1	29.0	29.0	32.2
52.5°	112.7	81.6	56.9	43.0	34.4	31.1	26.8	22.5	21.4	22.5	24.7
55°	102.0	74.1	49.4	35.4	26.8	21.4	19.3	16.1	15.1	16.1	19.3
57.5°	90.2	62.2	39.7	27.9	18.2	14.0	12.9	10.8	8.6	9.7	11.8
59°	82.7	55.8	34.4	22.5	14.0	9.7	9.7	7.5	5.4	6.5	9.7
60°	79.5	51.6	29.0	19.3	11.8	7.5	7.5	5.4	3.2	4.3	7.5
62.5°	67.6	43.0	22.5	11.8	5.4	1.1	3.2	1.1	0.0	1.1	3.2
65°	56.9	34.4	15.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0	1.1
67.5°	47.3	25.7	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	37.6	17.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	25.7	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	16.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.5	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: P651296
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7	4722.7
2.5°	3976.6	4130.2	4224.6	4402.8	4585.3	4726.0	4902.0	5059.9	5125.3	5159.7
5°	3067.3	3280.9	3462.3	3734.0	3986.3	4293.3	4604.6	4971.8	5112.4	5148.9
7.5°	2152.5	2370.5	2560.5	2875.1	3234.7	3645.9	4111.9	4577.8	4782.9	4840.9
10°	1554.6	1787.5	2019.4	2334.0	2670.0	3115.6	3600.8	4177.3	4413.6	4458.6
12.5°	981.3	1231.4	1608.2	1996.9	2352.3	2710.8	3218.7	3845.6	4106.5	4189.2
15°	569.0	755.8	1040.3	1547.0	1999.1	2473.5	3027.5	3721.1	4013.1	4097.9
17.5°	381.1	445.6	640.9	1028.5	1625.4	2254.6	2979.2	3823.1	4146.2	4254.7
20°	321.0	350.0	418.7	627.0	1251.8	2059.2	2992.1	4100.0	4524.2	4659.4
22.5°	282.3	309.2	353.2	450.9	873.9	1816.6	3053.3	4496.2	5043.7	5216.6
25°	249.1	275.9	314.5	373.6	587.3	1536.3	3187.5	5075.9	5731.9	5922.0
27.5°	221.2	245.8	279.1	329.6	452.0	1223.9	3306.6	5640.7	6360.0	6514.6
30°	195.4	215.8	248.0	286.6	375.8	943.7	3366.8	6134.5	6817.3	6989.1
32.5°	169.6	189.0	220.1	251.2	309.2	719.3	3324.9	6497.4	7261.8	7371.3
35°	144.9	165.3	191.1	220.1	267.4	580.8	3115.6	6905.4	7722.4	7808.3
37.5°	124.6	141.7	168.5	191.1	241.5	464.9	2862.2	7272.5	8238.8	8362.2
40°	105.2	122.4	149.2	169.6	222.3	366.1	2633.5	7680.5	8783.1	8935.5
42.5°	85.9	106.3	129.9	163.2	191.1	279.1	2356.6	8011.2	9192.1	9383.2
45°	68.7	91.2	117.0	162.1	166.4	212.6	2089.2	8268.8	9553.9	9725.7
47.5°	54.7	77.3	112.7	151.4	136.3	168.5	1936.7	8538.3	9854.5	9991.9
50°	44.0	64.4	118.1	133.1	113.8	142.8	1932.4	8838.9	10010.2	10101.5
52.5°	35.4	52.6	99.8	102.0	96.6	125.6	2048.4	9177.1	10169.1	10244.2
55°	30.0	44.0	65.5	75.2	87.0	113.8	2135.4	9697.8	10548.1	10619.0
57.5°	23.6	37.6	50.5	60.1	77.3	104.1	2147.2	10099.3	11027.9	11074.1
59°	20.4	32.2	45.1	53.7	70.9	97.7	2098.9	10124.0	11059.2	11133.2
60°	17.2	29.0	39.7	50.5	65.5	92.3	2046.2	9944.7	10943.2	11025.8
62.5°	12.9	22.5	29.0	40.8	53.7	79.5	1797.2	9318.8	10499.8	10557.7
65°	8.6	16.1	21.4	30.0	41.9	68.7	1464.3	8507.1	9814.8	9944.7
67.5°	5.4	11.8	17.2	22.5	34.4	57.9	1043.5	7295.1	8856.1	8939.8
70°	3.2	7.5	12.9	18.2	26.8	46.2	619.5	5766.3	7368.1	7385.2
72.5°	2.2	5.4	8.6	12.9	21.4	41.9	300.6	3758.7	5379.8	5584.8
75°	1.1	3.2	5.4	9.7	17.2	34.4	143.9	2511.1	3914.4	3973.4
77.5°	0.0	1.1	3.2	6.5	12.9	26.8	83.8	1649.0	2669.0	2730.1
80°	0.0	0.0	2.2	5.4	9.7	17.2	50.5	972.7	1616.8	1646.9
82.5°	0.0	0.0	1.1	4.3	6.5	12.9	25.7	427.3	1058.6	1069.3
85°	0.0	0.0	1.1	4.3	5.4	8.6	9.7	57.9	470.2	478.9
87.5°	0.0	0.0	1.1	5.4	5.4	5.4	5.4	3.2	39.7	49.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)