

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: P452959

Luminaire Tested: **GALN-SA4A-722-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-722-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9551 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 121
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

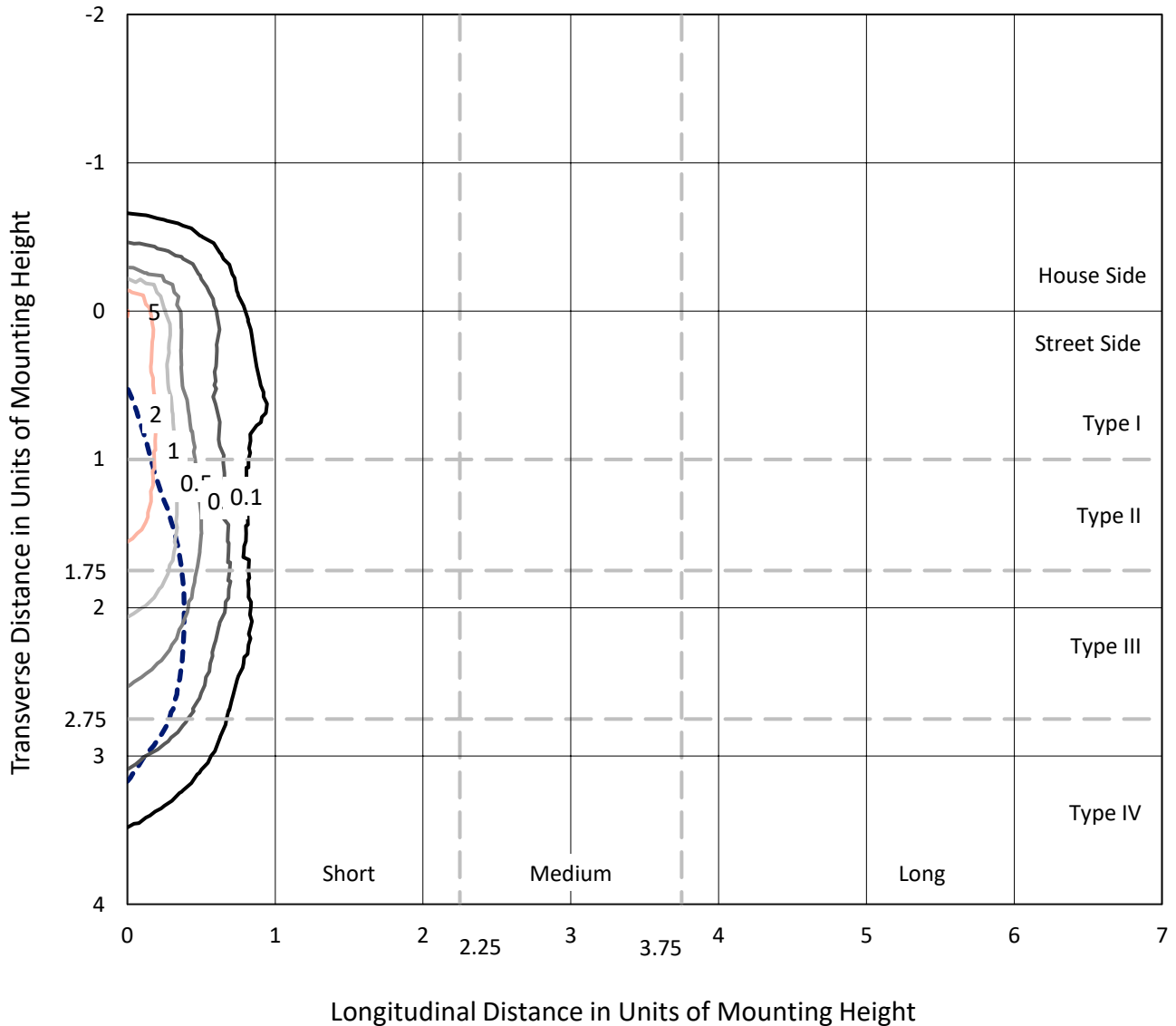




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Iso-Footcandle Lines of Horizontal Illumination

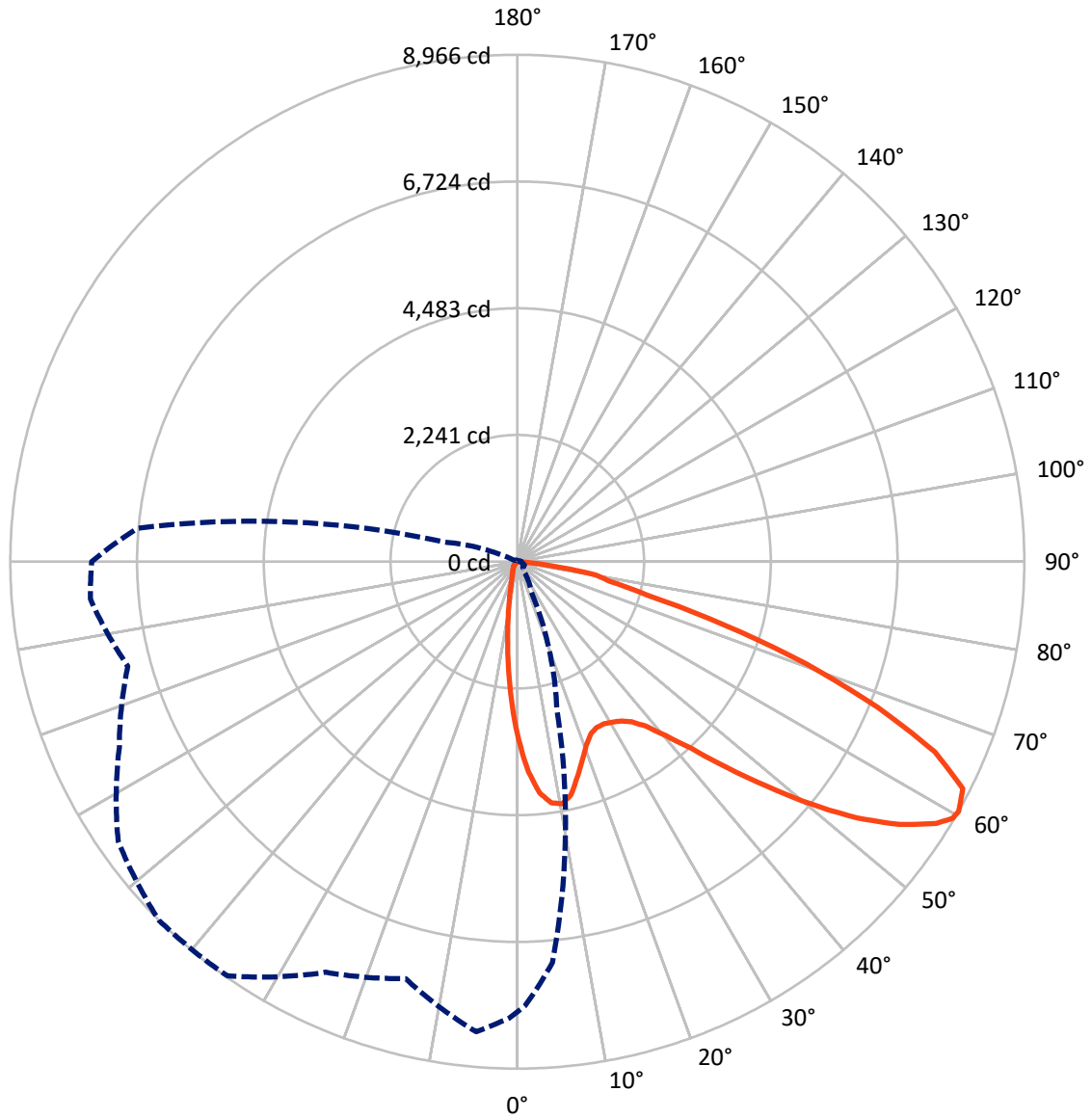
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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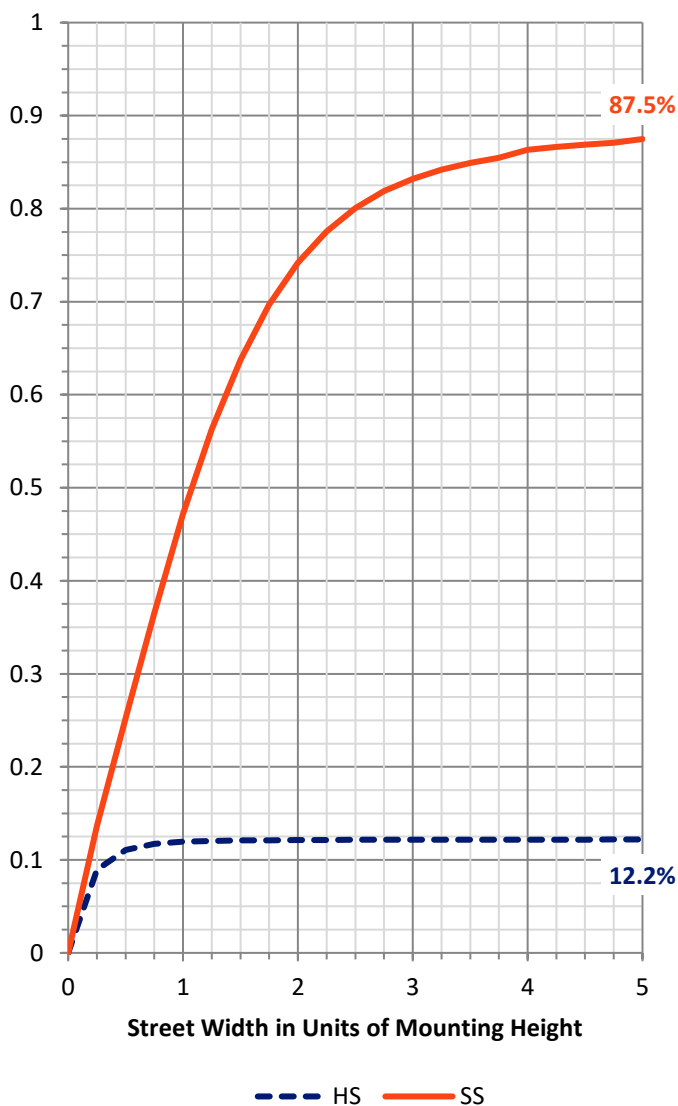
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1178.0	0.0	1178.0
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	8373.0	0.0	8373.0
	% Fixture	87.7	0.0	87.7
Total	Lumens	9551.0	0.0	9551.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.8	2.5
10°-20°	466.3	4.9
20°-30°	683.7	7.2
30°-40°	1016.8	10.6
40°-50°	1479.7	15.5
50°-60°	2133.9	22.3
60°-70°	2347.1	24.6
70°-80°	1051.3	11.0
80°-90°	137.4	1.4
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°	9551.0	100.0
0°-180°	9551.0	100.0

Coefficient of Utilization



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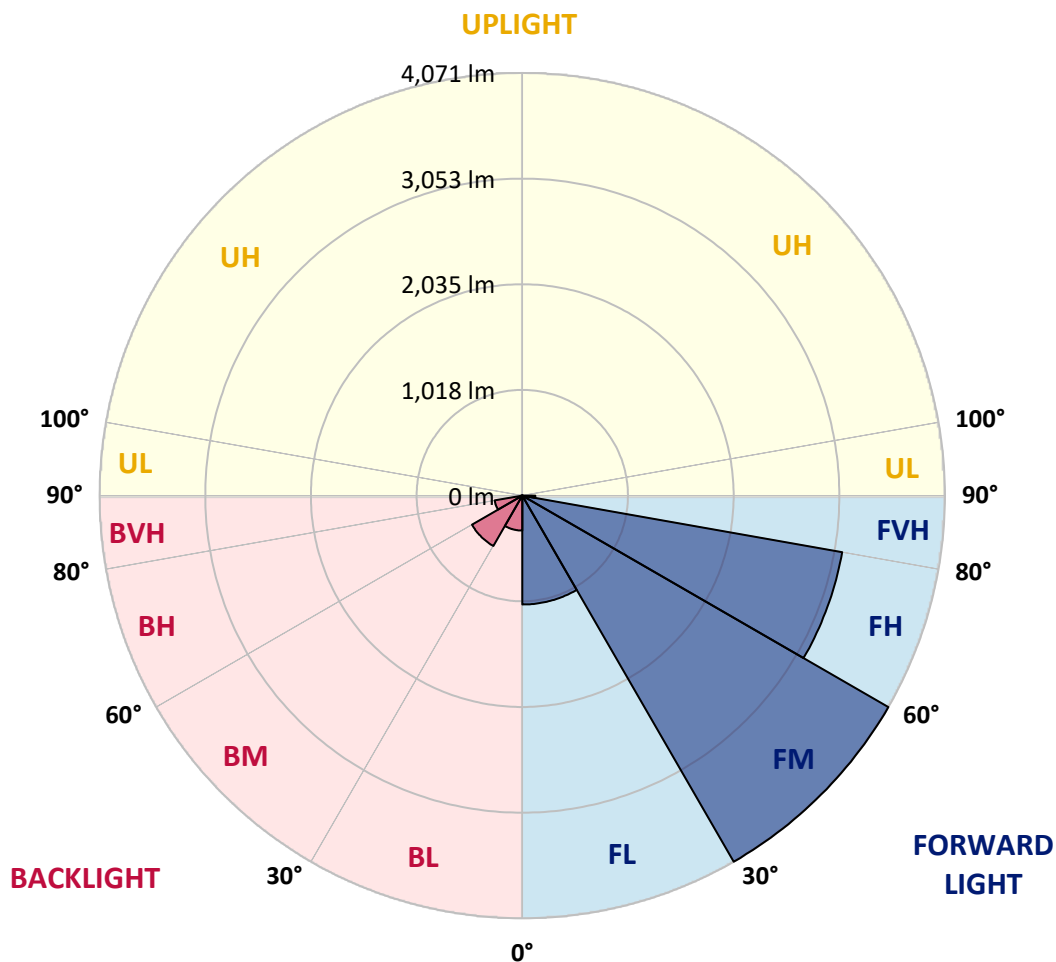
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1048.2	11.0			
FM	(30°-60°)	4070.9	42.6			
FH	(60°-80°)	3128.2	32.8			G2/5000
FVH	(80°-90°)	125.6	1.3			G2/225
BL	(0°-30°)	336.6	3.5	B1/500		
BM	(30°-60°)	559.5	5.9	B1/1000		
BH	(60°-80°)	270.2	2.8	B1/500		G1/500
BVH	(80°-90°)	11.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7
2.5°	3470.4	3455.1	3420.3	3314.3	3222.1	3101.6	2979.6	2883.8	2825.0	2716.8	2667.4
5°	3362.2	3369.5	3268.5	3050.7	2808.3	2642.7	2461.9	2318.2	2159.9	2059.7	1954.5
7.5°	3079.8	3065.3	2955.6	2652.2	2357.4	2117.8	1889.1	1703.2	1586.4	1492.7	1414.3
10°	2838.0	2827.1	2687.0	2296.4	1979.9	1800.5	1645.9	1483.3	1357.7	1220.4	1110.8
12.5°	2686.3	2661.6	2500.4	2092.4	1834.7	1667.7	1499.2	1330.1	1156.6	1017.9	885.0
15°	2635.5	2599.9	2420.6	2022.0	1741.7	1529.7	1318.5	1123.9	924.2	771.0	670.8
17.5°	2727.7	2668.9	2477.9	2009.6	1630.6	1349.7	1089.8	836.4	628.7	511.8	450.1
20°	2938.9	2871.4	2623.1	1997.3	1507.2	1147.8	828.4	591.0	434.9	371.0	336.9
22.5°	3252.6	3159.6	2838.0	2016.9	1393.2	951.1	598.2	417.5	345.6	305.7	281.7
25°	3629.4	3551.7	3110.3	2086.6	1303.2	796.4	462.5	341.2	291.1	266.4	248.3
27.5°	4042.5	3918.3	3462.4	2170.1	1221.2	676.7	405.8	304.9	259.2	236.7	227.2
30°	4336.5	4240.0	3757.2	2228.2	1118.8	586.6	371.0	300.6	259.9	233.1	215.6
32.5°	4626.9	4503.5	4004.0	2255.0	1044.0	524.2	320.9	262.1	228.0	214.2	196.8
35°	4937.7	4808.4	4250.1	2240.5	988.1	482.8	291.1	233.8	195.3	172.1	154.6
37.5°	5252.0	5115.5	4494.8	2188.2	953.3	466.1	267.9	222.2	184.4	160.5	141.6
40°	5625.2	5443.0	4724.2	2145.4	917.0	457.4	252.7	214.9	176.4	151.0	132.1
42.5°	5930.1	5756.6	4941.3	2122.9	892.3	437.1	252.7	209.1	171.3	143.0	123.4
45°	6219.1	6039.0	5175.8	2141.0	882.1	411.7	255.6	208.4	167.7	137.2	117.6
47.5°	6460.9	6304.8	5416.8	2209.3	869.0	384.1	240.3	218.5	165.5	132.1	111.8
50°	6746.2	6595.2	5735.6	2347.2	845.8	356.5	221.4	235.2	164.8	127.8	106.7
52.5°	7148.4	6985.1	6175.5	2504.0	808.8	314.4	204.0	233.1	161.9	120.5	101.6
55°	7639.9	7507.8	6685.2	2692.1	758.0	267.2	176.4	206.9	153.2	108.2	92.9
57.5°	7955.0	7842.5	7067.1	2773.4	680.3	218.5	155.4	173.5	140.1	96.6	82.8
59°	7992.0	7890.4	7147.0	2746.5	629.5	199.7	145.2	148.8	136.5	90.0	77.0
60°	7960.8	7855.6	7115.0	2694.3	582.3	186.6	136.5	132.1	137.2	86.4	72.6
62.5°	7760.4	7580.4	6805.0	2429.3	508.9	171.3	121.2	108.2	121.2	77.7	64.6
65°	7373.5	7103.4	6191.5	2056.1	479.9	162.6	103.1	90.8	92.2	68.2	55.9
67.5°	6697.5	6357.0	5374.7	1670.6	467.6	163.4	87.1	81.3	71.2	58.1	49.4
70°	5628.8	5289.1	4312.6	1374.4	461.7	163.4	74.1	69.7	59.5	48.6	42.8
72.5°	3988.8	3622.8	2909.2	1079.6	416.0	162.6	63.2	63.2	48.6	40.7	34.8
75°	2253.6	2256.5	1828.8	763.8	345.6	134.3	50.8	50.1	35.6	31.2	26.1
77.5°	1313.4	1290.1	1232.8	328.2	160.5	61.0	35.6	30.5	24.7	22.5	18.9
80°	675.2	555.4	540.9	119.1	57.4	38.5	24.7	17.4	16.0	14.5	13.1
82.5°	199.7	200.4	178.6	47.9	31.9	25.4	12.3	9.4	8.7	8.0	8.0
85°	13.8	8.7	10.2	14.5	19.6	10.2	0.7	2.2	2.2	2.9	3.6
87.5°	1.5	0.7	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°	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7
2.5°	2613.0	2644.9	2585.4	2586.8	2537.4	2553.4	2495.3	2514.2	2480.1	2506.2	2583.2
5°	1966.1	1973.3	1925.4	1910.2	1917.4	1947.2	1958.8	1905.8	1928.3	1884.0	1881.1
7.5°	1385.2	1394.0	1366.4	1362.7	1415.0	1402.7	1425.2	1370.7	1319.2	1341.7	1300.3
10°	1076.0	1039.7	983.0	967.1	956.9	963.4	963.4	914.1	906.8	887.2	917.0
12.5°	849.4	805.2	751.4	678.8	660.7	659.2	632.4	588.8	575.0	558.3	583.0
15°	617.1	599.0	554.0	513.3	471.9	463.9	420.4	384.8	337.6	331.1	328.9
17.5°	434.2	407.3	406.6	383.3	359.4	343.4	302.8	262.1	243.9	241.8	241.8
20°	325.3	315.8	300.6	297.7	290.4	272.3	236.0	214.2	205.5	206.2	209.1
22.5°	273.7	267.2	253.4	246.8	243.9	228.0	201.1	186.6	182.2	182.2	183.0
25°	244.7	238.9	223.6	213.5	209.8	198.2	177.1	166.3	162.6	162.6	162.6
27.5°	222.9	215.6	199.7	190.9	184.4	171.3	158.3	147.4	143.8	143.8	144.5
30°	207.6	199.7	185.1	173.5	163.4	151.7	140.8	131.4	127.1	126.3	127.1
32.5°	187.3	180.1	165.5	158.3	146.7	132.9	124.1	115.4	111.1	111.8	111.1
35°	145.9	143.8	133.6	135.8	129.2	117.6	109.6	100.2	95.1	94.4	95.8
37.5°	132.9	124.1	112.5	113.3	111.1	106.7	93.7	83.5	79.9	79.9	80.6
40°	122.7	114.0	100.9	94.4	95.1	95.1	81.3	70.4	66.8	66.1	67.5
42.5°	114.0	105.3	90.8	79.9	77.0	80.6	69.0	58.1	54.5	53.0	54.5
45°	108.2	98.7	82.0	69.7	61.0	65.3	56.6	47.9	43.6	43.6	42.8
47.5°	102.4	93.7	75.5	60.3	50.8	48.6	46.5	38.5	34.1	33.4	34.1
50°	97.3	88.6	68.2	52.3	42.8	37.8	37.8	30.5	27.6	26.1	26.9
52.5°	92.2	82.8	61.7	46.5	37.0	30.5	26.9	24.7	22.5	21.8	22.5
55°	84.9	75.5	55.2	39.9	31.9	25.4	21.1	20.3	18.9	17.4	18.9
57.5°	76.2	67.5	48.6	34.1	25.4	19.6	17.4	16.7	15.2	14.5	14.5
59°	71.2	63.2	45.0	29.8	22.5	17.4	16.0	15.2	13.8	12.3	13.1
60°	68.2	61.7	42.8	27.6	20.3	16.0	14.5	13.8	12.3	11.6	12.3
62.5°	60.3	55.2	37.8	22.5	16.0	11.6	10.2	10.9	10.2	9.4	10.2
65°	53.0	48.6	31.9	17.4	12.3	8.0	7.3	9.4	8.7	8.0	8.7
67.5°	47.2	42.1	26.9	13.1	8.7	4.4	5.1	8.0	8.0	7.3	8.0
70°	40.7	36.3	21.8	9.4	4.4	2.2	3.6	5.8	7.3	6.5	7.3
72.5°	33.4	28.3	16.7	6.5	2.2	0.0	2.2	5.1	7.3	6.5	7.3
75°	26.1	21.1	12.3	3.6	0.0	0.0	0.7	4.4	7.3	6.5	7.3
77.5°	18.9	15.2	7.3	0.7	0.0	0.0	0.7	4.4	7.3	6.5	7.3
80°	12.3	10.9	2.9	0.0	0.0	0.0	0.7	4.4	7.3	7.3	8.0
82.5°	8.0	5.8	0.0	0.0	0.0	0.0	1.5	5.8	8.0	8.7	8.7
85°	3.6	0.0	0.0	0.0	0.0	0.0	2.9	7.3	9.4	9.4	9.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.5	5.1	8.7	10.9	10.9	10.9
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°	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7
2.5°	2596.3	2642.0	2706.6	2806.1	2886.7	3013.7	3111.0	3243.9	3378.2	3418.8	3482.0
5°	1910.9	1969.7	2116.4	2249.9	2334.2	2602.8	2772.7	3040.6	3280.9	3396.3	3521.9
7.5°	1327.2	1396.9	1508.7	1695.3	1872.4	2090.9	2365.4	2671.8	3023.9	3188.7	3365.8
10°	931.5	1018.6	1176.2	1329.3	1552.2	1759.9	2030.7	2369.0	2757.4	2952.0	3174.2
12.5°	588.1	665.8	874.1	1046.2	1324.3	1565.3	1815.1	2121.4	2571.6	2771.2	3004.3
15°	336.1	401.5	498.8	719.5	1028.0	1346.8	1658.2	2014.0	2476.5	2722.6	2974.5
17.5°	250.5	267.9	311.5	436.3	717.3	1089.8	1513.8	1981.3	2541.1	2830.0	3117.5
20°	210.5	222.2	242.5	291.9	457.4	839.3	1372.9	1987.1	2750.2	3113.2	3386.2
22.5°	188.8	196.0	212.7	244.7	312.2	611.3	1208.1	2021.2	3003.6	3460.9	3776.0
25°	165.5	175.0	189.5	217.1	259.9	424.0	1045.5	2097.5	3358.6	3902.4	4198.6
27.5°	147.4	156.1	170.6	196.0	228.0	323.8	856.0	2162.8	3733.2	4346.7	4589.2
30°	129.2	137.9	152.5	172.8	201.8	262.1	652.0	2201.3	4096.9	4679.9	4866.5
32.5°	114.0	121.2	135.0	153.2	177.1	222.2	514.0	2161.4	4375.0	4982.7	5107.6
35°	98.7	107.5	119.1	135.8	156.8	189.5	427.6	2023.4	4613.9	5294.1	5339.2
37.5°	82.8	92.9	105.3	120.5	137.2	174.2	343.4	1871.0	4869.4	5682.6	5608.5
40°	69.7	79.1	90.8	107.5	122.7	159.7	264.3	1708.3	5145.3	6047.0	5902.6
42.5°	56.6	66.8	80.6	95.8	121.2	139.4	204.7	1539.9	5392.9	6364.3	6168.3
45°	45.0	53.7	68.2	87.8	120.5	119.8	158.3	1373.6	5579.5	6590.8	6366.5
47.5°	35.6	42.8	57.4	85.7	111.1	101.6	127.1	1270.5	5775.5	6794.8	6518.2
50°	28.3	35.6	49.4	89.3	97.3	87.1	106.7	1287.2	5965.0	6898.7	6580.7
52.5°	24.0	31.2	42.8	70.4	74.8	76.2	93.7	1364.2	6209.7	7009.7	6704.8
55°	21.1	27.6	36.3	49.4	58.1	68.2	85.7	1420.1	6537.1	7247.9	6978.5
57.5°	16.7	24.0	32.7	42.1	47.9	59.5	79.1	1424.5	6833.3	7553.5	7342.3
59°	15.2	21.8	30.5	39.9	42.8	53.7	74.8	1387.4	6844.2	7599.3	7509.2
60°	13.8	21.1	29.0	37.0	40.7	50.8	71.2	1344.6	6745.5	7526.7	7578.2
62.5°	11.6	18.2	25.4	29.8	34.8	42.1	61.7	1189.2	6267.0	7197.8	7450.4
65°	10.2	16.0	21.8	24.7	29.0	36.3	54.5	951.8	5738.5	6752.0	7084.5
67.5°	9.4	14.5	18.9	21.1	25.4	33.4	48.6	672.3	5053.8	6186.4	6534.9
70°	8.7	13.8	16.7	19.6	22.5	28.3	41.4	392.1	3892.9	5194.7	5562.8
72.5°	8.7	13.1	14.5	16.7	19.6	25.4	38.5	212.0	2661.6	3962.6	4438.2
75°	8.7	12.3	13.1	14.5	17.4	23.2	34.1	111.1	1720.7	2753.1	3397.8
77.5°	8.7	11.6	13.1	13.8	16.7	20.3	29.8	69.7	1146.4	1928.3	2296.4
80°	9.4	11.6	12.3	13.8	16.0	18.9	24.7	46.5	673.7	1160.2	1397.6
82.5°	10.2	11.6	13.1	14.5	16.7	18.2	21.8	29.0	310.7	767.4	868.3
85°	10.9	12.3	13.8	15.2	17.4	18.2	20.3	21.1	50.8	346.3	468.3
87.5°	11.6	13.1	14.5	16.0	18.9	18.9	18.9	18.9	17.4	37.0	94.4
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7	3156.7
2.5°	3561.9	3643.9	3701.3	3715.8	3674.4	3655.5	3603.2	3521.9	3472.6	3470.4
5°	3753.5	3945.9	4079.5	4102.0	4022.2	3887.1	3726.7	3519.8	3398.5	3362.2
7.5°	3720.9	4057.7	4272.6	4303.9	4169.5	3911.8	3601.1	3267.8	3135.7	3079.8
10°	3586.5	3997.5	4304.6	4354.0	4174.6	3811.6	3416.7	3044.9	2880.9	2838.0
12.5°	3471.8	3887.1	4160.1	4228.3	4092.6	3730.3	3306.3	2901.9	2726.2	2686.3
15°	3421.7	3756.4	3923.4	3958.3	3935.8	3679.5	3294.7	2880.1	2679.0	2635.5
17.5°	3471.8	3645.4	3666.4	3702.0	3752.1	3674.4	3406.5	2998.5	2781.4	2727.7
20°	3603.2	3548.8	3461.7	3476.9	3591.6	3695.5	3605.4	3260.6	2996.3	2938.9
22.5°	3826.9	3524.8	3327.4	3314.3	3459.5	3765.9	3897.3	3615.6	3309.2	3252.6
25°	4101.3	3585.1	3278.0	3249.7	3407.9	3869.0	4214.6	4050.5	3715.8	3629.4
27.5°	4400.4	3710.0	3278.0	3250.4	3403.6	3960.4	4486.1	4435.3	4136.9	4042.5
30°	4564.5	3813.1	3325.2	3294.0	3457.3	4013.4	4631.3	4777.2	4453.4	4336.5
32.5°	4711.2	3956.1	3417.4	3358.6	3569.8	4091.9	4761.2	5067.6	4705.3	4626.9
35°	4846.2	4109.3	3544.4	3476.2	3718.0	4199.3	4905.0	5372.6	5056.0	4937.7
37.5°	4995.0	4287.2	3742.6	3684.6	3965.5	4408.4	5075.6	5773.3	5400.9	5252.0
40°	5156.9	4493.3	4068.6	4043.9	4359.0	4645.1	5291.2	6201.0	5794.4	5625.2
42.5°	5321.7	4730.8	4467.9	4508.6	4804.8	4976.9	5512.7	6529.8	6116.7	5930.1
45°	5471.3	5034.2	4987.0	5188.2	5324.6	5300.7	5676.8	6761.4	6397.7	6219.1
47.5°	5660.1	5476.4	5615.1	5925.1	5928.7	5652.8	5800.9	6950.9	6639.5	6460.9
50°	5871.3	5998.4	6426.0	6741.8	6656.9	5999.1	5946.1	7175.3	6889.2	6746.2
52.5°	6116.0	6582.8	7175.3	7525.9	7327.7	6376.6	6187.9	7417.8	7285.6	7148.4
55°	6400.6	6981.4	7922.3	8201.9	8002.2	6845.7	6555.2	7746.7	7733.6	7639.9
57.5°	6722.2	7402.5	8355.1	8733.3	8555.4	7396.0	7068.5	8056.7	8007.3	7955.0
59°	6976.3	7618.9	8546.0	8938.1	8830.6	7781.5	7413.4	8249.8	8070.5	7992.0
60°	7130.3	7765.5	8616.4	8965.6	8941.0	8010.9	7631.9	8344.2	8069.7	7960.8
62.5°	7586.9	8021.8	8589.6	8842.9	8939.5	8450.9	8273.0	8448.0	7920.2	7760.4
65°	7749.6	7936.9	8144.5	8113.3	8196.1	8428.4	8682.5	8334.0	7600.7	7373.5
67.5°	7433.0	7005.4	7078.7	6870.3	6829.7	7493.3	8516.2	7776.4	6975.6	6697.5
70°	6265.6	5366.8	5329.7	5425.6	5162.7	6066.6	7647.2	6702.6	5943.9	5628.8
72.5°	4931.9	3792.7	3480.5	3833.4	3825.4	4628.4	6352.7	4756.2	4015.6	3988.8
75°	3878.4	2640.5	2317.5	2374.8	2485.2	3350.6	5059.6	3020.2	2472.8	2253.6
77.5°	2603.5	1871.0	1745.4	1674.9	1794.0	2151.2	3201.0	1637.9	1386.7	1313.4
80°	1500.7	1359.1	1543.5	1401.2	1465.1	1355.5	1592.2	751.4	623.7	675.2
82.5°	976.5	773.9	824.8	612.8	837.8	845.1	511.1	222.2	188.0	199.7
85°	610.6	363.0	204.0	145.2	289.0	531.4	159.7	13.8	16.0	13.8
87.5°	158.3	60.3	25.4	37.8	46.5	41.4	37.0	2.2	0.7	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)