

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: P532319

Luminaire Tested: **GALN-SA7C-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532319
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-SA7C-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA 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: 21512 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 377
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

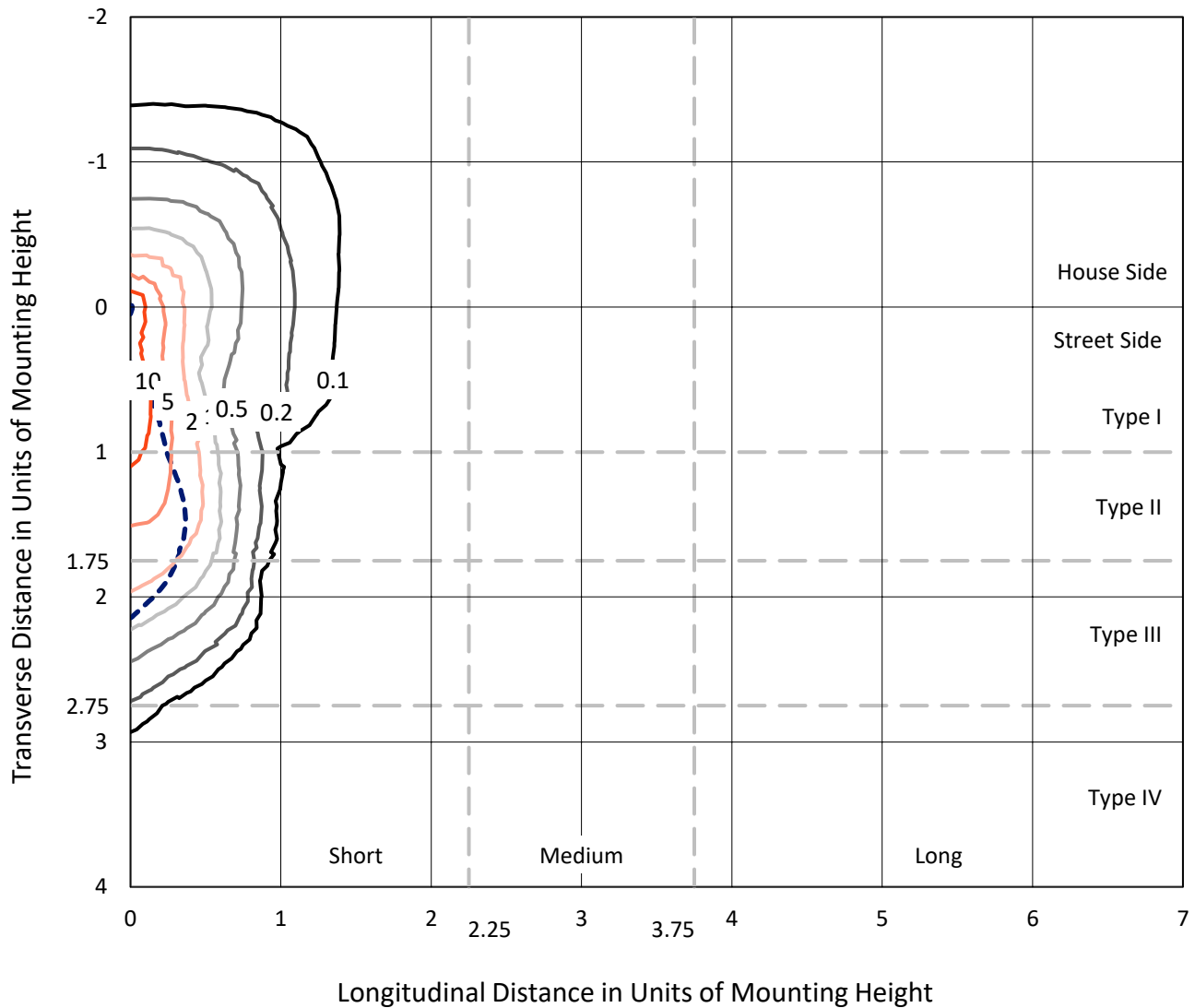


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

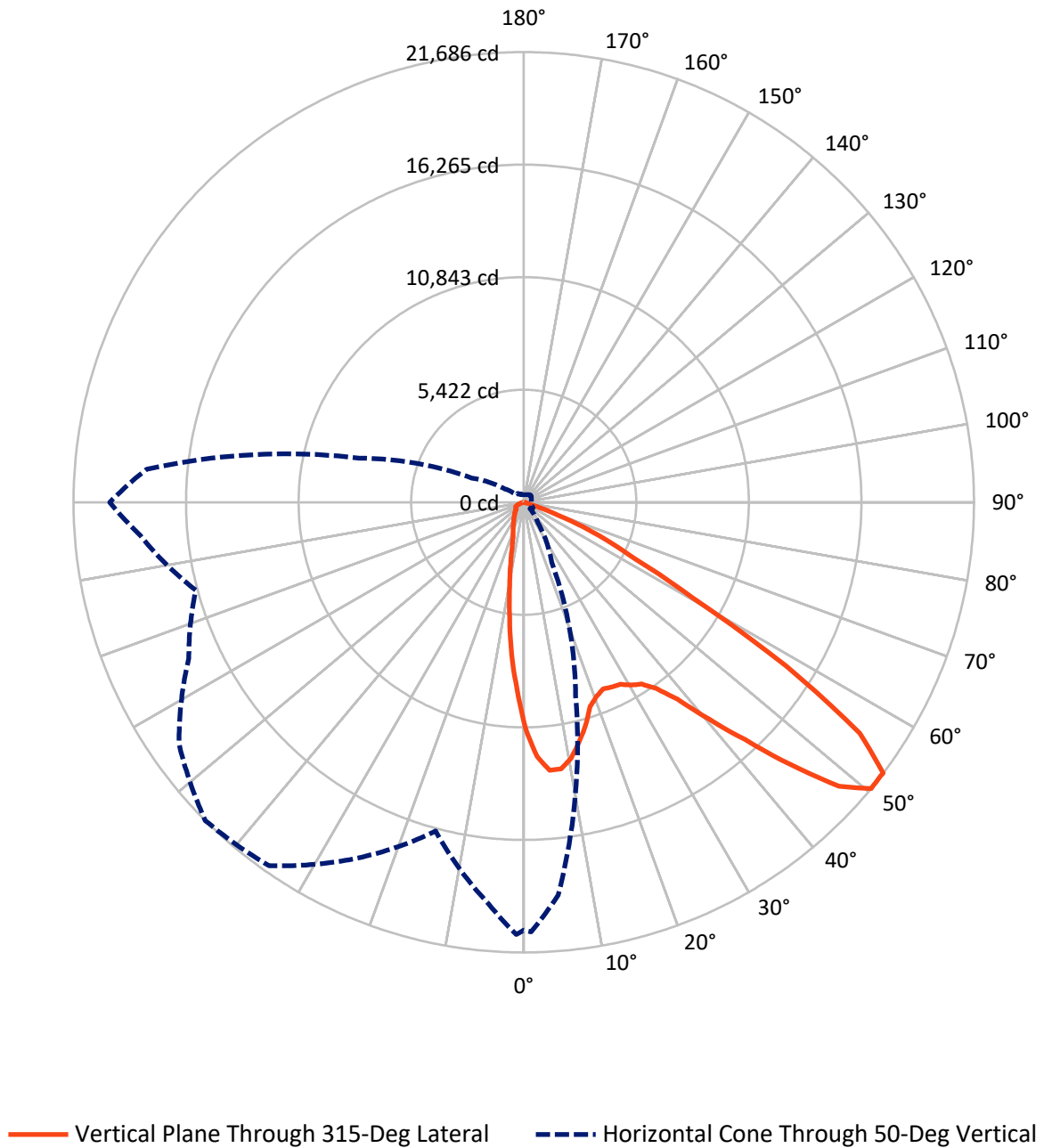


Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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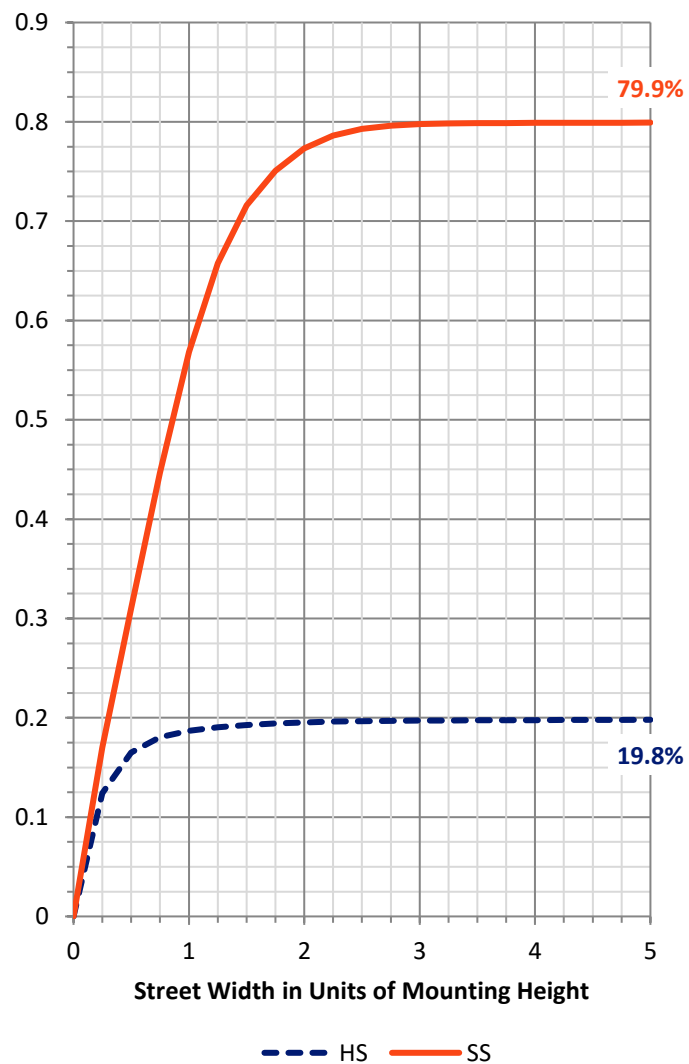
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4308.9	0.0	4308.9
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	17203.1	0.0	17203.1
	% Fixture	80.0	0.0	80.0
Total	Lumens	21512.0	0.0	21512.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.2	3.7
10°-20°	1580.4	7.3
20°-30°	2374.2	11.0
30°-40°	3563.6	16.6
40°-50°	5008.4	23.3
50°-60°	5402.4	25.1
60°-70°	2508.3	11.7
70°-80°	236.0	1.1
80°-90°	43.5	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°	21512.0	100.0
0°-180°	21512.0	100.0

Coefficient of Utilization



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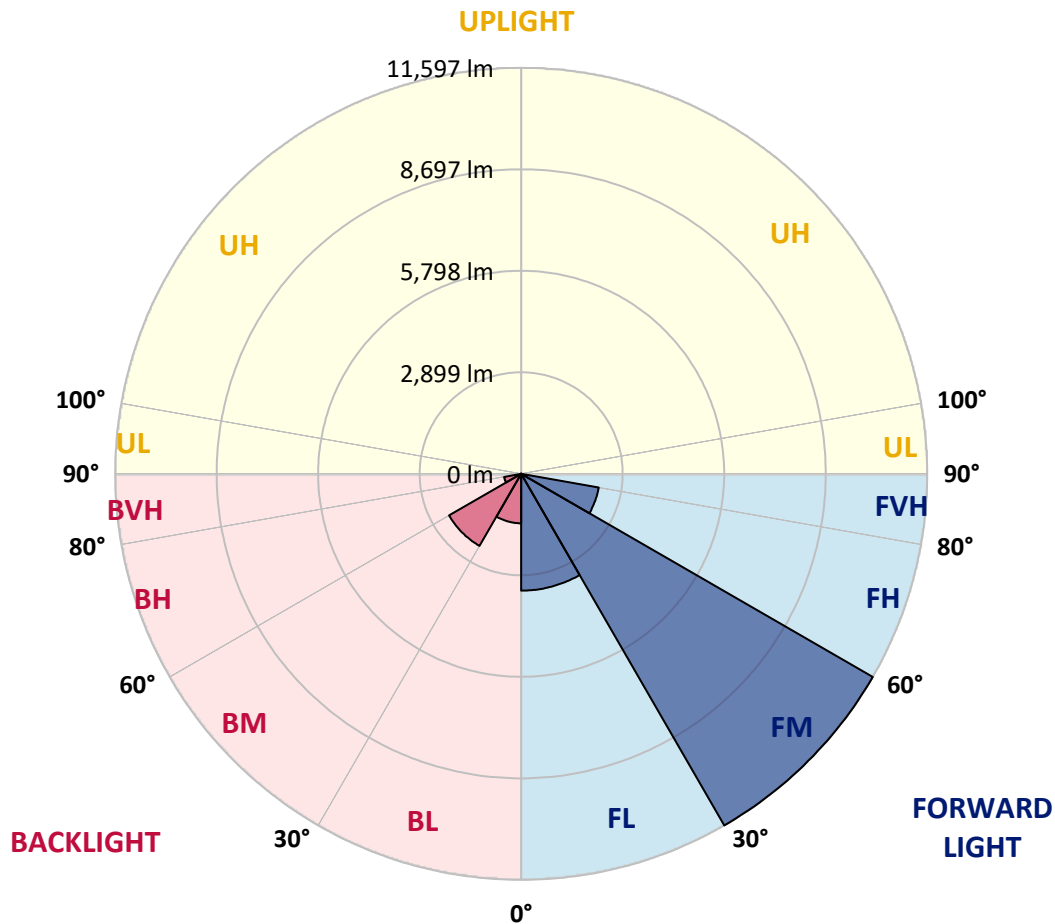
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3337.4	15.5			
FM	(30°-60°)	11596.6	53.9			
FH	(60°-80°)	2249.6	10.5			G2/5000
FVH	(80°-90°)	19.6	0.1			G1/100
BL	(0°-30°)	1412.3	6.6	B3/2500		
BM	(30°-60°)	2377.9	11.1	B2/2500		
BH	(60°-80°)	494.8	2.3	B1/500		G1/500
BVH	(80°-90°)	23.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3
2.5°	11340.4	11165.4	10943.4	10759.9	10486.8	9936.2	9786.8	9607.5	9458.1	9257.5	8975.8
5°	10311.8	10256.3	10153.8	9462.4	8963.0	8297.2	7750.9	7520.4	7217.4	6969.8	6790.6
7.5°	9526.4	9304.5	8980.1	8284.4	7486.3	6773.5	6167.4	5813.2	5412.0	5275.4	5032.1
10°	8685.6	8736.8	8258.8	7281.4	6316.8	5740.6	5365.0	5023.6	4660.8	4421.8	4076.0
12.5°	8416.7	8250.3	7883.2	6675.3	5851.6	5313.8	4857.1	4434.6	4050.4	3666.3	3333.4
15°	8591.7	8335.6	7823.5	6547.3	5493.1	4823.0	4251.0	3679.1	3324.9	2834.0	2488.3
17.5°	9219.1	9014.3	8327.1	6683.9	5309.5	4353.5	3504.1	2915.1	2373.1	1929.2	1754.2
20°	10264.8	9974.6	9112.4	6858.9	5036.4	3785.8	2842.6	2117.0	1604.8	1417.0	1318.8
22.5°	11289.2	11131.2	10042.9	7196.0	4793.1	3282.2	2134.1	1425.5	1199.3	1165.2	1101.2
25°	13239.7	12765.9	11464.2	7806.4	4605.3	2808.4	1609.1	1148.1	1015.8	990.2	998.7
27.5°	14400.6	14003.7	12778.7	8211.8	4396.2	2445.6	1361.5	1054.2	964.6	909.1	887.8
30°	15514.6	15053.6	13431.8	8450.9	3948.0	2061.5	1207.9	1011.5	990.2	909.1	883.5
32.5°	16372.5	15920.1	14375.0	8809.4	3764.5	1813.9	994.5	789.6	734.1	725.6	802.4
35°	17687.1	17204.8	15181.7	9005.7	3623.6	1685.9	862.2	704.2	640.2	614.6	618.9
37.5°	18912.0	18583.4	15928.6	9082.5	3474.2	1647.5	772.5	631.7	576.2	559.1	554.9
40°	19936.4	19202.2	16637.1	9163.6	3410.2	1574.9	717.0	576.2	537.8	512.2	512.2
42.5°	20405.8	19658.9	17431.0	9116.7	3393.1	1459.7	717.0	529.2	499.4	473.8	469.5
45°	20303.4	20000.4	17785.2	9095.3	3393.1	1344.5	653.0	516.4	473.8	439.6	431.1
47.5°	20568.0	20171.1	18229.1	9185.0	3324.9	1263.4	550.6	542.1	448.2	405.5	396.9
50°	20615.0	20691.8	19001.6	9650.2	3175.5	1160.9	431.1	533.5	431.1	367.1	358.5
52°	20922.3	20444.3	19236.4	9897.8	3017.6	1084.1	362.8	456.7	414.0	341.4	332.9
52.5°	20499.7	20811.3	19291.9	9987.4	3034.6	1032.9	350.0	448.2	405.5	341.4	320.1
55°	20026.0	20324.8	19065.7	10179.4	2782.8	810.9	273.2	324.4	367.1	298.8	286.0
57.5°	17405.4	17708.4	16568.8	9321.6	2266.4	571.9	226.2	243.3	324.4	277.4	264.6
60°	15471.9	15254.2	13905.5	7776.5	1609.1	320.1	179.3	187.8	354.3	256.1	251.8
62.5°	14140.3	13675.0	11622.1	6005.2	981.7	213.4	140.8	145.1	273.2	239.0	239.0
65°	10461.1	9940.4	7721.0	3632.2	482.3	149.4	106.7	115.2	170.7	204.9	204.9
67.5°	5971.1	5770.5	3730.3	1639.0	200.6	93.9	81.1	89.6	132.3	166.5	157.9
70°	2744.4	2462.7	1434.1	345.7	93.9	64.0	64.0	72.6	106.7	123.8	115.2
72.5°	802.4	759.7	350.0	55.5	38.4	38.4	42.7	55.5	81.1	93.9	85.4
75°	59.8	38.4	25.6	17.1	17.1	25.6	34.1	55.5	81.1	89.6	72.6
77.5°	4.3	8.5	4.3	4.3	12.8	25.6	38.4	68.3	106.7	111.0	81.1
80°	4.3	4.3	0.0	4.3	12.8	25.6	42.7	76.8	119.5	128.0	68.3
82.5°	0.0	0.0	0.0	4.3	17.1	34.1	51.2	81.1	111.0	136.6	72.6
85°	0.0	0.0	0.0	4.3	25.6	46.9	59.8	21.3	12.8	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°	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3
2.5°	9176.4	9065.5	9022.8	9061.2	9048.4	9035.6	9270.3	9219.1	9210.6	9287.4	9270.3
5°	6888.7	6692.4	7230.2	7012.5	7238.7	7375.3	7400.9	7413.7	7571.6	7405.2	7622.8
7.5°	4908.3	4959.5	4955.3	5100.4	5360.7	5591.2	5727.8	5621.1	5612.6	5591.2	5497.3
10°	3922.4	3832.8	3815.7	3781.5	3862.6	4059.0	4225.4	4093.1	3999.2	4127.3	4088.9
12.5°	3205.4	3081.6	3013.3	2876.7	2881.0	3013.3	3013.3	3013.3	3107.2	3179.7	3235.2
15°	2458.4	2356.0	2356.0	2219.4	2189.5	2193.8	2262.1	2270.6	2420.0	2462.7	2484.0
17.5°	1720.0	1664.6	1728.6	1784.1	1749.9	1758.5	1784.1	1792.6	1813.9	1796.9	1839.6
20°	1323.1	1314.6	1331.7	1429.8	1502.4	1545.1	1515.2	1472.5	1446.9	1387.1	1387.1
22.5°	1122.5	1139.6	1169.5	1250.6	1344.5	1370.1	1335.9	1237.8	1160.9	1152.4	1156.7
25°	998.7	1015.8	1062.8	1114.0	1165.2	1207.9	1173.7	1101.2	1058.5	1020.1	1020.1
27.5°	921.9	930.4	956.1	994.5	1037.2	1071.3	1058.5	1020.1	973.1	956.1	917.6
30°	862.2	875.0	904.8	913.4	951.8	968.9	947.5	939.0	909.1	887.8	875.0
32.5°	832.3	828.0	849.4	857.9	862.2	875.0	849.4	862.2	857.9	823.7	810.9
35°	627.4	661.6	717.0	764.0	776.8	793.9	789.6	772.5	725.6	687.2	640.2
37.5°	563.4	584.7	614.6	653.0	704.2	725.6	717.0	674.4	618.9	593.3	584.7
40°	520.7	533.5	559.1	584.7	635.9	674.4	644.5	606.1	563.4	542.1	529.2
42.5°	482.3	486.6	499.4	525.0	563.4	623.1	571.9	520.7	503.6	490.8	482.3
45°	439.6	439.6	456.7	469.5	512.2	567.7	516.4	469.5	461.0	452.4	448.2
47.5°	405.5	409.7	418.3	435.3	469.5	507.9	473.8	435.3	414.0	409.7	401.2
50°	362.8	367.1	384.1	401.2	443.9	465.2	443.9	401.2	379.9	367.1	367.1
52°	328.6	341.4	358.5	392.7	422.5	456.7	431.1	384.1	358.5	345.7	337.2
52.5°	324.4	332.9	350.0	388.4	422.5	452.4	426.8	379.9	350.0	341.4	332.9
55°	290.2	303.0	332.9	379.9	418.3	452.4	418.3	375.6	332.9	311.6	303.0
57.5°	277.4	286.0	324.4	384.1	414.0	452.4	418.3	375.6	332.9	294.5	286.0
60°	264.6	281.7	324.4	371.3	409.7	456.7	422.5	371.3	324.4	277.4	277.4
62.5°	251.8	264.6	320.1	362.8	392.7	439.6	405.5	362.8	311.6	264.6	260.4
65°	217.7	239.0	281.7	303.0	337.2	379.9	345.7	315.8	273.2	234.7	230.5
67.5°	166.5	175.0	209.1	234.7	256.1	294.5	277.4	239.0	209.1	179.3	179.3
70°	115.2	123.8	149.4	162.2	183.5	204.9	192.1	162.2	140.8	123.8	119.5
72.5°	81.1	85.4	93.9	102.4	111.0	119.5	115.2	93.9	81.1	76.8	72.6
75°	64.0	72.6	76.8	72.6	68.3	64.0	64.0	55.5	46.9	42.7	42.7
77.5°	64.0	68.3	64.0	55.5	46.9	42.7	38.4	34.1	25.6	21.3	25.6
80°	55.5	55.5	55.5	46.9	42.7	38.4	34.1	29.9	25.6	21.3	21.3
82.5°	59.8	59.8	55.5	46.9	46.9	38.4	38.4	34.1	29.9	21.3	21.3
85°	0.0	0.0	0.0	8.5	21.3	38.4	38.4	34.1	29.9	25.6	25.6
87.5°	0.0	0.0	0.0	0.0	4.3	8.5	17.1	21.3	25.6	25.6	25.6
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°	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3
2.5°	9424.0	9586.2	9893.5	10200.8	10388.6	10610.5	11011.7	11225.1	11502.6	11639.1	11908.0
5°	7593.0	7977.1	8113.7	8463.7	8839.3	9214.9	9812.4	10469.7	11016.0	11391.6	11878.2
7.5°	5540.0	5629.6	6158.9	6393.6	7008.2	7691.1	8506.3	9334.4	10025.8	10640.4	11011.7
10°	4152.9	4481.5	4814.4	5262.6	5757.7	6461.9	7243.0	8156.4	9052.7	9667.3	10136.8
12.5°	3337.7	3598.0	4041.9	4524.2	5134.5	5599.8	6385.1	7289.9	8450.9	9052.7	9671.5
15°	2526.7	2859.6	3363.3	3862.6	4507.1	4998.0	5791.8	6931.4	8425.3	9253.3	9786.8
17.5°	1873.7	2099.9	2552.3	3111.5	3768.7	4460.2	5531.5	6893.0	8711.2	9697.2	10247.7
20°	1434.1	1510.9	1796.9	2296.2	3009.0	3913.9	5108.9	7059.5	9556.3	10777.0	11336.1
22.5°	1160.9	1195.1	1306.0	1651.8	2343.2	3435.8	4908.3	7174.7	10508.1	12070.2	12817.1
25°	1011.5	1003.0	1075.6	1224.9	1831.0	2987.7	4652.2	7610.0	11673.3	13589.7	14259.8
27.5°	921.9	921.9	956.1	1062.8	1519.4	2697.4	4490.1	7921.6	12847.0	14925.6	15288.4
30°	875.0	883.5	981.7	1015.8	1263.4	2351.7	4221.2	8237.5	13969.5	15779.2	16278.6
32.5°	810.9	776.8	755.5	840.8	1062.8	2040.2	3952.3	8369.8	14878.6	16824.9	17251.7
35°	623.1	606.1	631.7	695.7	913.4	1775.5	3653.5	8519.2	15924.3	18037.0	18122.4
37.5°	563.4	559.1	576.2	631.7	768.3	1545.1	3440.1	8480.7	16722.5	19040.1	18809.6
40°	520.7	520.7	533.5	580.5	687.2	1382.9	3218.2	8446.6	17495.0	20166.8	19492.5
42.5°	486.6	486.6	507.9	537.8	653.0	1276.2	3051.7	8399.6	18143.7	20858.3	19893.7
45°	439.6	452.4	486.6	516.4	661.6	1203.6	2927.9	8220.4	18365.7	20849.7	19701.6
47.5°	405.5	422.5	456.7	499.4	597.5	1182.3	2842.6	8062.5	18288.9	20337.6	19099.8
50°	367.1	388.4	435.3	507.9	507.9	1139.6	2752.9	8203.3	18233.4	19940.6	18523.6
52°	341.4	358.5	418.3	495.1	443.9	1050.0	2697.4	8476.5	18459.6	19889.4	18267.5
52.5°	337.2	350.0	405.5	486.6	422.5	1032.9	2659.0	8540.5	18532.1	19761.4	18442.5
55°	298.8	315.8	371.3	379.9	345.7	849.4	2535.3	8685.6	18173.6	19509.5	18276.1
57.5°	281.7	290.2	328.6	311.6	298.8	640.2	2181.0	8459.4	16142.0	17328.5	17004.2
60°	260.4	268.9	307.3	243.3	251.8	448.2	1639.0	7345.4	12962.3	14439.0	15023.8
62.5°	251.8	247.6	290.2	196.3	213.4	324.4	1156.7	5971.1	9987.4	11886.7	12898.2
65°	221.9	217.7	209.1	166.5	183.5	251.8	691.4	3896.8	7038.1	8992.9	9547.8
67.5°	170.7	179.3	153.7	132.3	153.7	196.3	384.1	1745.7	3691.9	5394.9	5843.0
70°	119.5	128.0	123.8	115.2	136.6	162.2	221.9	597.5	1528.0	2834.0	3124.3
72.5°	72.6	89.6	93.9	98.2	119.5	140.8	157.9	192.1	405.5	1003.0	1246.3
75°	42.7	59.8	72.6	85.4	98.2	119.5	132.3	136.6	140.8	187.8	303.0
77.5°	29.9	42.7	64.0	81.1	98.2	119.5	140.8	149.4	140.8	132.3	140.8
80°	25.6	42.7	59.8	76.8	102.4	123.8	140.8	140.8	136.6	119.5	128.0
82.5°	25.6	42.7	64.0	81.1	98.2	119.5	136.6	140.8	128.0	119.5	123.8
85°	29.9	46.9	68.3	85.4	106.7	98.2	89.6	72.6	68.3	55.5	59.8
87.5°	29.9	42.7	42.7	46.9	51.2	51.2	51.2	46.9	38.4	34.1	34.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3	10909.3
2.5°	11920.8	12262.3	12249.5	12258.0	12206.8	11861.1	11694.6	11272.1	11391.6	11340.4
5°	12377.5	12714.7	13004.9	12970.8	12578.1	12108.6	11412.9	10755.6	10576.4	10311.8
7.5°	11920.8	12731.8	13000.7	12962.3	12381.8	11780.0	10670.3	10013.0	9701.4	9526.4
10°	11195.3	12134.2	12467.2	12535.4	12142.8	11229.4	10209.3	9155.1	8988.6	8685.6
12.5°	10781.3	11464.2	11669.0	11852.5	11716.0	11033.1	9859.3	8847.8	8617.3	8416.7
15°	10444.1	10849.5	10934.9	11144.0	11225.1	10858.1	10042.9	9180.7	8613.1	8591.7
17.5°	10755.6	10589.2	10277.6	10341.6	10597.7	10862.3	10516.6	9838.0	9287.4	9219.1
20°	11272.1	10538.0	9833.7	9991.7	10205.1	11016.0	11233.7	10755.6	10439.8	10264.8
22.5°	11865.4	10627.6	9692.9	9769.7	10175.2	11361.7	12394.6	12130.0	11541.0	11289.2
25°	12962.3	10875.2	9803.9	9855.1	10409.9	11844.0	13444.6	13640.9	13290.9	13239.7
27.5°	14033.6	11515.4	10047.1	9931.9	10529.4	12313.5	14080.5	15134.7	14520.1	14400.6
30°	14579.9	12036.1	10409.9	10213.6	11024.5	12599.5	14464.6	16107.9	15570.1	15514.6
32.5°	15416.4	12509.8	10691.6	10439.8	11302.0	12953.7	15181.7	17170.6	16649.9	16372.5
35°	15766.4	13026.3	11310.5	11016.0	12095.8	13448.8	15548.7	18118.1	17955.9	17687.1
37.5°	16440.8	13581.1	12040.3	12023.3	13056.2	14093.3	16210.3	19407.1	19377.2	18912.0
40°	16496.3	14187.2	13192.7	13730.5	14541.5	15215.8	16790.8	19765.6	20252.2	19936.4
42.5°	16581.6	15250.0	15185.9	15629.8	16325.5	16180.4	16812.1	19851.0	20593.6	20405.8
45°	16620.0	16312.7	17213.3	18032.8	18323.0	17443.8	16611.5	19688.8	20772.9	20303.4
47.5°	16312.7	17226.1	18852.3	20435.7	20521.1	18220.6	16526.1	19522.3	20879.6	20568.0
50°	16355.4	17798.0	20269.3	21686.3	21374.7	18907.7	16393.8	19419.9	20824.1	20615.0
52°	16253.0	17810.8	20469.9	21660.7	21443.0	18527.9	16167.6	19027.2	20772.9	20922.3
52.5°	16368.2	17734.0	20260.7	21677.7	21396.0	18715.7	16137.7	19244.9	20802.8	20499.7
55°	15971.3	16820.6	19035.8	19637.6	19594.9	16987.1	15220.1	18523.6	20021.7	20026.0
57.5°	14434.8	14579.9	14929.9	14917.1	14720.7	13354.9	13017.7	17034.0	17849.2	17405.4
60°	12719.0	10674.5	9731.3	9347.2	9129.5	8907.6	11515.4	15582.9	15659.7	15471.9
62.5°	10990.4	7400.9	6146.1	6039.4	6090.6	6901.5	11131.2	15006.7	14545.7	14140.3
65°	8869.1	5394.9	4464.4	4323.6	4823.0	5697.9	9010.0	11506.8	10798.3	10461.1
67.5°	5569.9	3935.2	3017.6	2752.9	3354.7	3922.4	5919.9	7230.2	6436.3	5971.1
70°	3303.5	2198.1	1365.8	1224.9	1378.6	2091.4	3316.3	3606.6	2983.4	2744.4
72.5°	1301.8	806.7	379.9	324.4	337.2	734.1	1220.7	1190.8	900.6	802.4
75°	350.0	243.3	132.3	106.7	89.6	136.6	196.3	128.0	46.9	59.8
77.5°	162.2	145.1	115.2	89.6	68.3	51.2	25.6	8.5	8.5	4.3
80°	140.8	123.8	106.7	89.6	68.3	42.7	21.3	4.3	4.3	4.3
82.5°	132.3	115.2	98.2	81.1	64.0	42.7	21.3	4.3	0.0	0.0
85°	55.5	72.6	81.1	76.8	68.3	42.7	21.3	4.3	0.0	0.0
87.5°	29.9	25.6	21.3	17.1	12.8	8.5	8.5	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

(END OF REPORT)