

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: P532163

Luminaire Tested: **GALN-SA7C-730-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532163
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-730-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 24654 lumens
Efficiency: N/A
Efficacy: 65.4 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

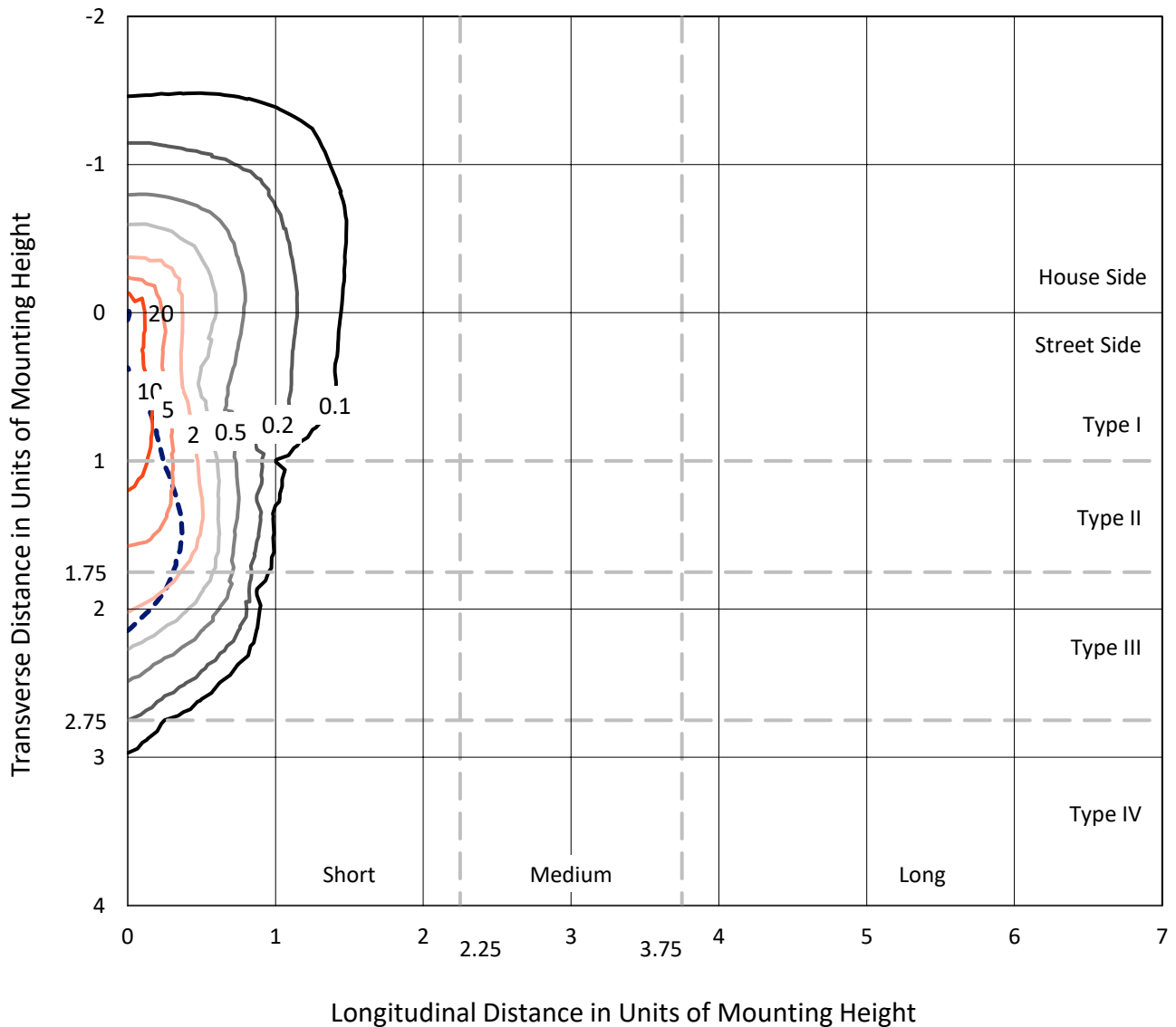
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

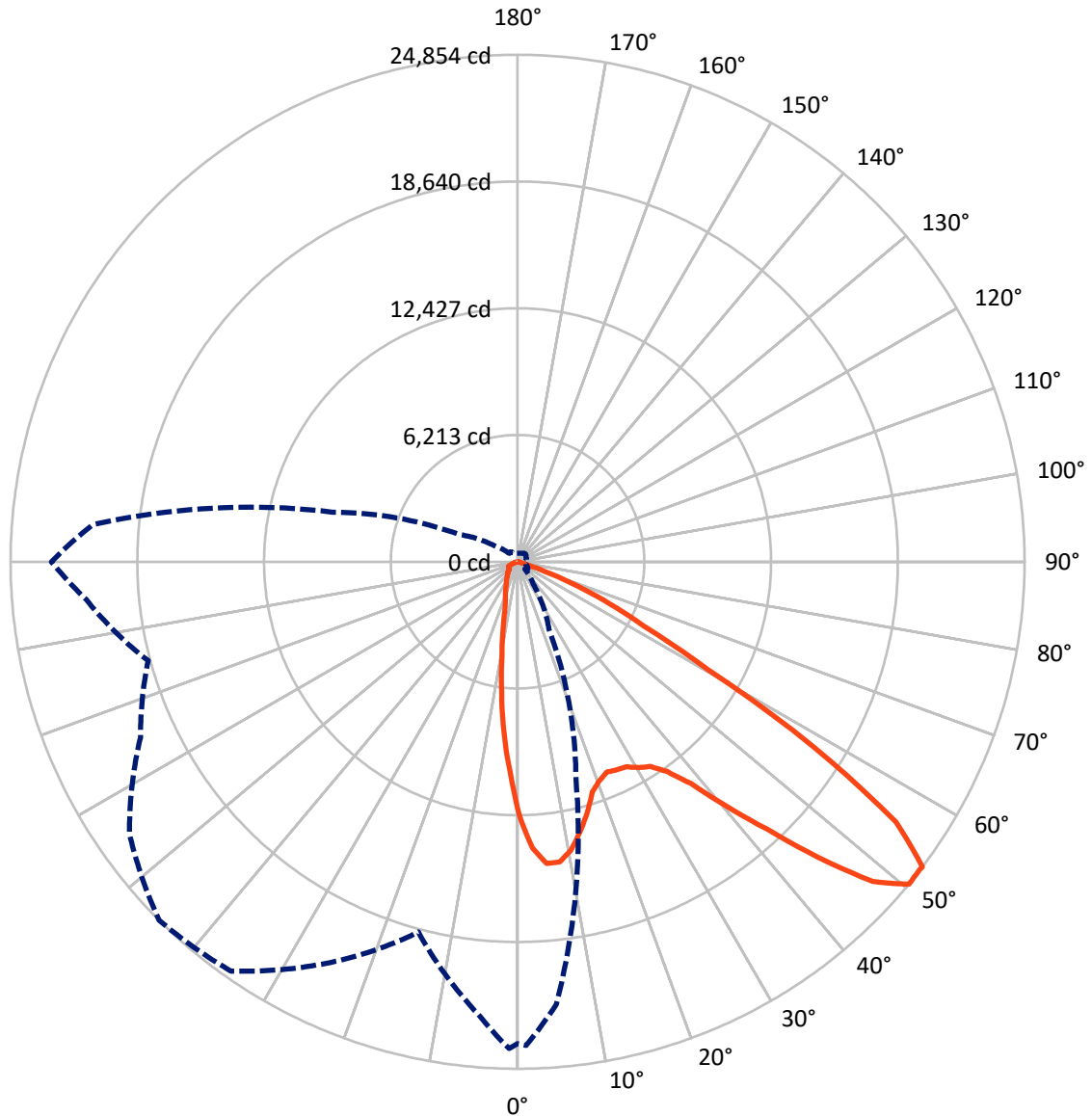
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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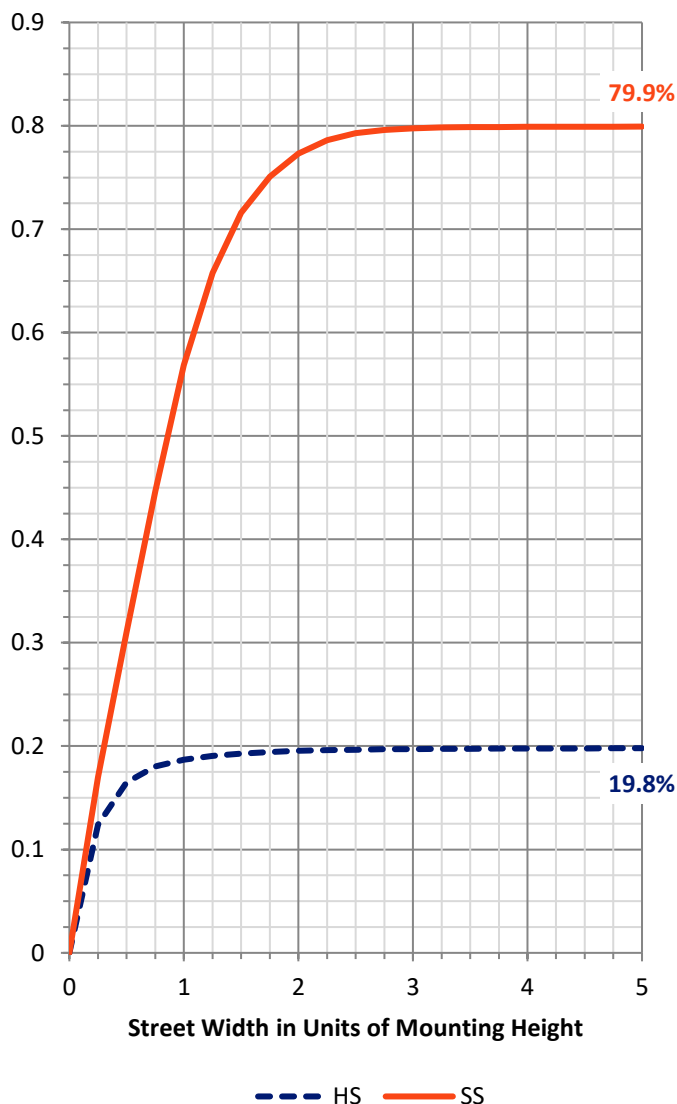
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4938.2	0.0	4938.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	19715.8	0.0	19715.8
	% Fixture	80.0	0.0	80.0
Total	Lumens	24654.0	0.0	24654.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	911.3	3.7
10°-20°	1811.2	7.3
20°-30°	2721.0	11.0
30°-40°	4084.1	16.6
40°-50°	5739.9	23.3
50°-60°	6191.5	25.1
60°-70°	2874.7	11.7
70°-80°	270.5	1.1
80°-90°	49.9	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°	24654.0	100.0
0°-180°	24654.0	100.0

Coefficient of Utilization



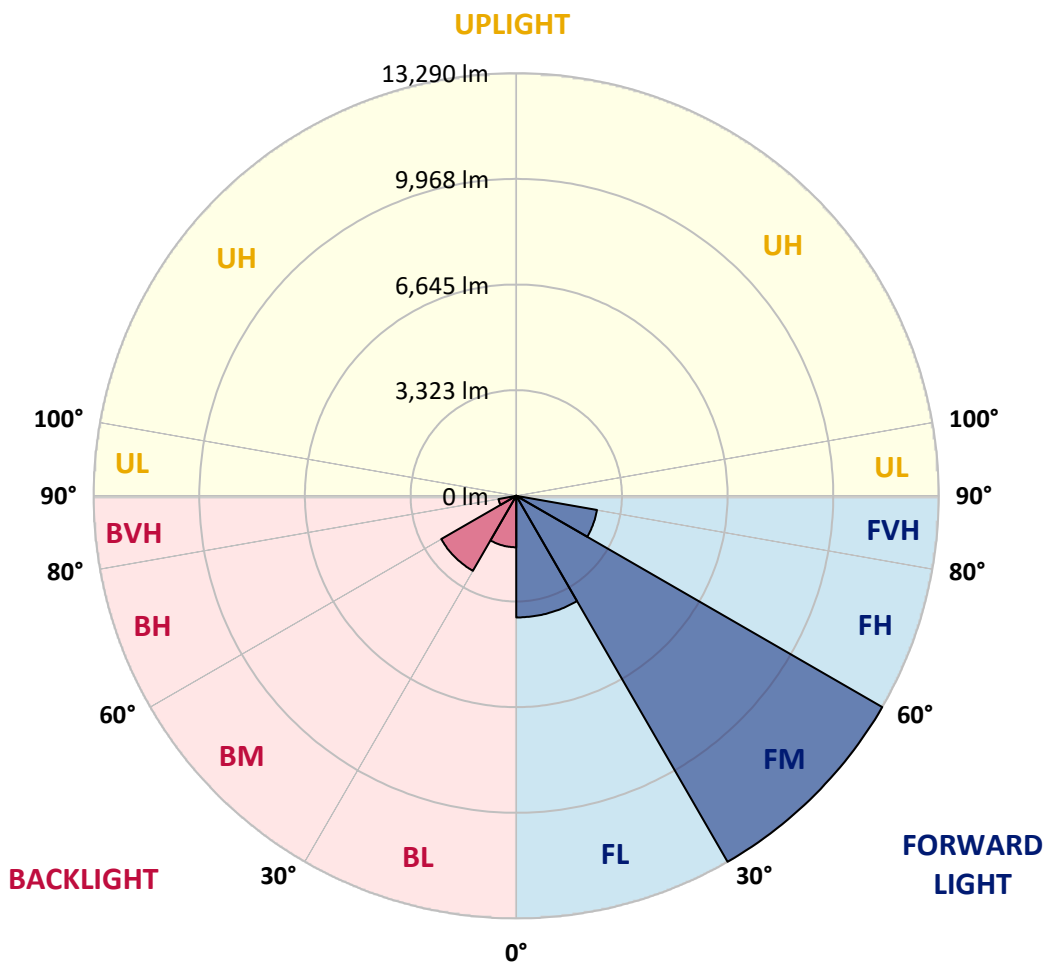
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3824.9	15.5			
FM (30°-60°)	13290.4	53.9			
FH (60°-80°)	2578.1	10.5			G2/5000
FVH (80°-90°)	22.5	0.1			G1/100
BL (0°-30°)	1618.6	6.6	B3/2500		
BM (30°-60°)	2725.2	11.1	B3/5000		
BH (60°-80°)	567.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	27.4	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°	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7
2.5°	12996.7	12796.2	12541.8	12331.5	12018.4	11387.4	11216.2	11010.8	10839.6	10609.7	10286.8
5°	11817.9	11754.3	11636.9	10844.5	10272.2	9509.1	8883.0	8618.8	8271.5	7987.8	7782.4
7.5°	10917.8	10663.5	10291.7	9494.4	8579.7	7762.8	7068.2	6662.2	6202.4	6045.9	5767.1
10°	9954.2	10012.9	9465.1	8344.9	7239.4	6579.1	6148.6	5757.3	5341.5	5067.6	4671.4
12.5°	9646.0	9455.3	9034.6	7650.3	6706.3	6089.9	5566.5	5082.3	4642.0	4201.8	3820.3
15°	9846.6	9553.1	8966.1	7503.6	6295.4	5527.4	4871.9	4216.5	3810.5	3248.0	2851.7
17.5°	10565.6	10330.9	9543.3	7660.1	6085.0	4989.3	4015.9	3340.9	2719.7	2211.0	2010.4
20°	11764.1	11431.4	10443.4	7860.6	5772.0	4338.8	3257.7	2426.2	1839.2	1624.0	1511.5
22.5°	12938.0	12757.0	11509.7	8247.1	5493.2	3761.6	2445.8	1633.8	1374.5	1335.4	1262.0
25°	15173.4	14630.5	13138.6	8946.6	5277.9	3218.6	1844.1	1315.8	1164.2	1134.8	1144.6
27.5°	16503.9	16049.0	14645.2	9411.3	5038.2	2802.8	1560.4	1208.2	1105.5	1041.9	1017.4
30°	17780.6	17252.3	15393.6	9685.2	4524.6	2362.6	1384.3	1159.3	1134.8	1041.9	1012.5
32.5°	18763.8	18245.3	16474.6	10096.1	4314.3	2078.9	1139.7	904.9	841.3	831.6	919.6
35°	20270.4	19717.7	17399.1	10321.1	4152.9	1932.1	988.1	807.1	733.7	704.4	709.3
37.5°	21674.3	21297.6	18255.1	10409.1	3981.7	1888.1	885.4	723.9	660.4	640.8	635.9
40°	22848.2	22006.9	19067.1	10502.1	3908.3	1805.0	821.8	660.4	616.3	587.0	587.0
42.5°	23386.3	22530.3	19976.9	10448.3	3888.7	1672.9	821.8	606.5	572.3	543.0	538.1
45°	23268.9	22921.6	20382.9	10423.8	3888.7	1540.8	748.4	591.9	543.0	503.8	494.0
47.5°	23572.2	23117.3	20891.6	10526.5	3810.5	1447.9	631.0	621.2	513.6	464.7	454.9
50°	23626.0	23714.0	21777.0	11059.7	3639.3	1330.5	494.0	611.4	494.0	420.7	410.9
52°	23978.2	23430.3	22046.0	11343.4	3458.3	1242.4	415.8	523.4	474.5	391.3	381.5
52.5°	23493.9	23851.0	22109.6	11446.1	3477.9	1183.7	401.1	513.6	464.7	391.3	366.9
55°	22950.9	23293.3	21850.4	11666.2	3189.3	929.4	313.1	371.8	420.7	342.4	327.7
57.5°	19947.6	20294.9	18988.8	10683.0	2597.4	655.5	259.2	278.8	371.8	317.9	303.3
60°	17731.7	17482.2	15936.5	8912.3	1844.1	366.9	205.4	215.2	406.0	293.5	288.6
62.5°	16205.6	15672.4	13319.6	6882.3	1125.0	244.6	161.4	166.3	313.1	273.9	273.9
65°	11989.1	11392.3	8848.7	4162.7	552.7	171.2	122.3	132.1	195.7	234.8	234.8
67.5°	6843.2	6613.3	4275.2	1878.3	229.9	107.6	92.9	102.7	151.6	190.8	181.0
70°	3145.2	2822.4	1643.5	396.2	107.6	73.4	73.4	83.2	122.3	141.9	132.1
72.5°	919.6	870.7	401.1	63.6	44.0	44.0	48.9	63.6	92.9	107.6	97.8
75°	68.5	44.0	29.3	19.6	19.6	29.3	39.1	63.6	92.9	102.7	83.2
77.5°	4.9	9.8	4.9	4.9	14.7	29.3	44.0	78.3	122.3	127.2	92.9
80°	4.9	4.9	0.0	4.9	14.7	29.3	48.9	88.0	137.0	146.7	78.3
82.5°	0.0	0.0	0.0	4.9	19.6	39.1	58.7	92.9	127.2	156.5	83.2
85°	0.0	0.0	0.0	4.9	29.3	53.8	68.5	24.5	14.7	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°	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7
2.5°	10516.7	10389.6	10340.6	10384.7	10370.0	10355.3	10624.3	10565.6	10555.9	10643.9	10624.3
5°	7894.9	7669.9	8286.2	8036.7	8296.0	8452.5	8481.9	8496.5	8677.5	8486.8	8736.2
7.5°	5625.2	5683.9	5679.0	5845.3	6143.7	6407.9	6564.4	6442.1	6432.3	6407.9	6300.3
10°	4495.3	4392.6	4373.0	4333.9	4426.8	4651.8	4842.6	4691.0	4583.3	4730.1	4686.1
12.5°	3673.5	3531.7	3453.4	3296.9	3301.8	3453.4	3453.4	3453.4	3561.0	3644.2	3707.8
15°	2817.5	2700.1	2700.1	2543.6	2509.3	2514.2	2592.5	2602.3	2773.5	2822.4	2846.9
17.5°	1971.3	1907.7	1981.1	2044.6	2005.5	2015.3	2044.6	2054.4	2078.9	2059.3	2108.2
20°	1516.4	1506.6	1526.1	1638.7	1721.8	1770.7	1736.5	1687.6	1658.2	1589.7	1589.7
22.5°	1286.5	1306.0	1340.3	1433.2	1540.8	1570.2	1531.0	1418.5	1330.5	1320.7	1325.6
25°	1144.6	1164.2	1218.0	1276.7	1335.4	1384.3	1345.2	1262.0	1213.1	1169.1	1169.1
27.5°	1056.6	1066.3	1095.7	1139.7	1188.6	1227.8	1213.1	1169.1	1115.3	1095.7	1051.7
30°	988.1	1002.8	1037.0	1046.8	1090.8	1110.4	1085.9	1076.1	1041.9	1017.4	1002.8
32.5°	953.8	949.0	973.4	983.2	988.1	1002.8	973.4	988.1	983.2	944.1	929.4
35°	719.1	758.2	821.8	875.6	890.3	909.8	904.9	885.4	831.6	787.5	733.7
37.5°	645.7	670.1	704.4	748.4	807.1	831.6	821.8	772.9	709.3	679.9	670.1
40°	596.8	611.4	640.8	670.1	728.8	772.9	738.6	694.6	645.7	621.2	606.5
42.5°	552.7	557.6	572.3	601.7	645.7	714.2	655.5	596.8	577.2	562.5	552.7
45°	503.8	503.8	523.4	538.1	587.0	650.6	591.9	538.1	528.3	518.5	513.6
47.5°	464.7	469.6	479.4	498.9	538.1	582.1	543.0	498.9	474.5	469.6	459.8
50°	415.8	420.7	440.2	459.8	508.7	533.2	508.7	459.8	435.3	420.7	420.7
52°	376.6	391.3	410.9	450.0	484.3	523.4	494.0	440.2	410.9	396.2	386.4
52.5°	371.8	381.5	401.1	445.1	484.3	518.5	489.2	435.3	401.1	391.3	381.5
55°	332.6	347.3	381.5	435.3	479.4	518.5	479.4	430.5	381.5	357.1	347.3
57.5°	317.9	327.7	371.8	440.2	474.5	518.5	479.4	430.5	381.5	337.5	327.7
60°	303.3	322.8	371.8	425.6	469.6	523.4	484.3	425.6	371.8	317.9	317.9
62.5°	288.6	303.3	366.9	415.8	450.0	503.8	464.7	415.8	357.1	303.3	298.4
65°	249.5	273.9	322.8	347.3	386.4	435.3	396.2	362.0	313.1	269.0	264.1
67.5°	190.8	200.6	239.7	269.0	293.5	337.5	317.9	273.9	239.7	205.4	205.4
70°	132.1	141.9	171.2	185.9	210.3	234.8	220.1	185.9	161.4	141.9	137.0
72.5°	92.9	97.8	107.6	117.4	127.2	137.0	132.1	107.6	92.9	88.0	83.2
75°	73.4	83.2	88.0	83.2	78.3	73.4	73.4	63.6	53.8	48.9	48.9
77.5°	73.4	78.3	73.4	63.6	53.8	48.9	44.0	39.1	29.3	24.5	29.3
80°	63.6	63.6	63.6	53.8	48.9	44.0	39.1	34.2	29.3	24.5	24.5
82.5°	68.5	68.5	63.6	53.8	53.8	44.0	44.0	39.1	34.2	24.5	24.5
85°	0.0	0.0	0.0	9.8	24.5	44.0	44.0	39.1	34.2	29.3	29.3
87.5°	0.0	0.0	0.0	0.0	4.9	9.8	19.6	24.5	29.3	29.3	29.3
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°	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7
2.5°	10800.4	10986.3	11338.5	11690.7	11905.9	12160.3	12620.1	12864.7	13182.6	13339.1	13647.3
5°	8702.0	9142.2	9298.8	9699.9	10130.3	10560.8	11245.6	11998.9	12625.0	13055.4	13613.1
7.5°	6349.2	6451.9	7058.4	7327.5	8031.9	8814.5	9748.8	10697.7	11490.1	12194.5	12620.1
10°	4759.4	5136.1	5517.6	6031.2	6598.6	7405.7	8300.9	9347.7	10374.9	11079.3	11617.3
12.5°	3825.2	4123.5	4632.3	5185.0	5884.5	6417.7	7317.7	8354.7	9685.2	10374.9	11084.1
15°	2895.8	3277.3	3854.5	4426.8	5165.4	5728.0	6637.8	7943.8	9655.8	10604.8	11216.2
17.5°	2147.4	2406.6	2925.1	3565.9	4319.2	5111.6	6339.4	7899.8	9983.6	11113.5	11744.5
20°	1643.5	1731.6	2059.3	2631.6	3448.5	4485.5	5855.1	8090.5	10952.1	12351.0	12991.8
22.5°	1330.5	1369.6	1496.8	1893.0	2685.4	3937.7	5625.2	8222.6	12042.9	13833.2	14689.2
25°	1159.3	1149.5	1232.7	1403.9	2098.5	3424.1	5331.7	8721.6	13378.3	15574.6	16342.5
27.5°	1056.6	1056.6	1095.7	1218.0	1741.4	3091.4	5145.9	9078.6	14723.4	17105.6	17521.4
30°	1002.8	1012.5	1125.0	1164.2	1447.9	2695.2	4837.7	9440.6	16009.9	18083.9	18656.2
32.5°	929.4	890.3	865.8	963.6	1218.0	2338.1	4529.5	9592.2	17051.8	19282.3	19771.5
35°	714.2	694.6	723.9	797.3	1046.8	2034.9	4187.1	9763.4	18250.2	20671.5	20769.3
37.5°	645.7	640.8	660.4	723.9	880.5	1770.7	3942.6	9719.4	19164.9	21821.0	21556.9
40°	596.8	596.8	611.4	665.2	787.5	1584.8	3688.2	9680.3	20050.3	23112.4	22339.5
42.5°	557.6	557.6	582.1	616.3	748.4	1462.6	3497.4	9626.5	20793.8	23904.8	22799.3
45°	503.8	518.5	557.6	591.9	758.2	1379.4	3355.6	9421.0	21048.1	23895.0	22579.2
47.5°	464.7	484.3	523.4	572.3	684.8	1354.9	3257.7	9240.1	20960.1	23308.0	21889.5
50°	420.7	445.1	498.9	582.1	582.1	1306.0	3155.0	9401.5	20896.5	22853.1	21229.1
52°	391.3	410.9	479.4	567.4	508.7	1203.3	3091.4	9714.5	21155.8	22794.4	20935.6
52.5°	386.4	401.1	464.7	557.6	484.3	1183.7	3047.4	9787.9	21238.9	22647.7	21136.2
55°	342.4	362.0	425.6	435.3	396.2	973.4	2905.6	9954.2	20828.0	22359.1	20945.4
57.5°	322.8	332.6	376.6	357.1	342.4	733.7	2499.6	9695.0	18499.7	19859.5	19487.8
60°	298.4	308.2	352.2	278.8	288.6	513.6	1878.3	8418.3	14855.5	16548.0	17218.1
62.5°	288.6	283.7	332.6	225.0	244.6	371.8	1325.6	6843.2	11446.1	13622.8	14782.1
65°	254.4	249.5	239.7	190.8	210.3	288.6	792.4	4465.9	8066.1	10306.4	10942.3
67.5°	195.7	205.4	176.1	151.6	176.1	225.0	440.2	2000.6	4231.2	6182.9	6696.5
70°	137.0	146.7	141.9	132.1	156.5	185.9	254.4	684.8	1751.2	3248.0	3580.6
72.5°	83.2	102.7	107.6	112.5	137.0	161.4	181.0	220.1	464.7	1149.5	1428.3
75°	48.9	68.5	83.2	97.8	112.5	137.0	151.6	156.5	161.4	215.2	347.3
77.5°	34.2	48.9	73.4	92.9	112.5	137.0	161.4	171.2	161.4	151.6	161.4
80°	29.3	48.9	68.5	88.0	117.4	141.9	161.4	161.4	156.5	137.0	146.7
82.5°	29.3	48.9	73.4	92.9	112.5	137.0	156.5	161.4	146.7	137.0	141.9
85°	34.2	53.8	78.3	97.8	122.3	112.5	102.7	83.2	78.3	63.6	68.5
87.5°	34.2	48.9	48.9	53.8	58.7	58.7	58.7	53.8	44.0	39.1	39.1
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°	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7	12502.7
2.5°	13662.0	14053.3	14038.6	14048.4	13989.7	13593.5	13402.7	12918.5	13055.4	12996.7
5°	14185.4	14571.8	14904.4	14865.3	14415.3	13877.2	13079.9	12326.6	12121.1	11817.9
7.5°	13662.0	14591.4	14899.5	14855.5	14190.3	13500.6	12228.8	11475.5	11118.4	10917.8
10°	12830.4	13906.5	14288.1	14366.3	13916.3	12869.5	11700.5	10492.3	10301.5	9954.2
12.5°	12355.9	13138.6	13373.4	13583.7	13427.2	12644.5	11299.4	10140.1	9875.9	9646.0
15°	11969.5	12434.2	12532.0	12771.7	12864.7	12444.0	11509.7	10521.6	9871.1	9846.6
17.5°	12326.6	12135.8	11778.7	11852.1	12145.6	12448.9	12052.7	11274.9	10643.9	10565.6
20°	12918.5	12077.1	11270.0	11451.0	11695.6	12625.0	12874.4	12326.6	11964.6	11764.1
22.5°	13598.4	12179.8	11108.6	11196.7	11661.3	13021.2	14204.9	13901.7	13226.6	12938.0
25°	14855.5	12463.6	11235.8	11294.5	11930.4	13573.9	15408.2	15633.2	15232.1	15173.4
27.5°	16083.3	13197.3	11514.6	11382.5	12067.3	14112.0	16137.1	17345.3	16640.9	16503.9
30°	16709.4	13794.0	11930.4	11705.4	12634.8	14439.7	16577.3	18460.5	17844.2	17780.6
32.5°	17668.1	14337.0	12253.2	11964.6	12952.7	14845.7	17399.1	19678.5	19081.8	18763.8
35°	18069.2	14928.9	12962.5	12625.0	13862.5	15413.1	17819.8	20764.4	20578.6	20270.4
37.5°	18842.1	15564.8	13798.9	13779.4	14963.1	16151.7	18577.9	22241.7	22207.4	21674.3
40°	18905.7	16259.4	15119.6	15736.0	16665.4	17438.2	19243.2	22652.6	23210.2	22848.2
42.5°	19003.5	17477.3	17404.0	17912.7	18710.0	18543.7	19267.6	22750.4	23601.5	23386.3
45°	19047.5	18695.3	19727.4	20666.6	20999.2	19991.6	19037.7	22564.5	23807.0	23268.9
47.5°	18695.3	19742.1	21605.8	23420.5	23518.4	20881.8	18939.9	22373.7	23929.2	23572.2
50°	18744.2	20397.6	23229.8	24853.7	24496.7	21669.4	18788.3	22256.3	23865.7	23626.0
52°	18626.8	20412.2	23459.7	24824.4	24574.9	21234.0	18529.0	21806.3	23807.0	23978.2
52.5°	18758.9	20324.2	23220.0	24844.0	24521.1	21449.2	18494.8	22055.8	23841.2	23493.9
55°	18304.0	19277.4	21816.1	22505.8	22456.9	19468.2	17443.1	21229.1	22946.0	22950.9
57.5°	16543.1	16709.4	17110.5	17095.8	16870.8	15305.5	14919.1	19522.0	20456.3	19947.6
60°	14576.7	12233.7	11152.6	10712.4	10462.9	10208.6	13197.3	17858.9	17946.9	17731.7
62.5°	12595.6	8481.9	7043.8	6921.5	6980.2	7909.6	12757.0	17198.5	16670.2	16205.6
65°	10164.5	6182.9	5116.5	4955.1	5527.4	6530.2	10326.0	13187.5	12375.5	11989.1
67.5°	6383.4	4510.0	3458.3	3155.0	3844.7	4495.3	6784.5	8286.2	7376.4	6843.2
70°	3786.0	2519.1	1565.3	1403.9	1580.0	2396.8	3800.7	4133.3	3419.2	3145.2
72.5°	1491.9	924.5	435.3	371.8	386.4	841.3	1399.0	1364.7	1032.1	919.6
75°	401.1	278.8	151.6	122.3	102.7	156.5	225.0	146.7	53.8	68.5
77.5°	185.9	166.3	132.1	102.7	78.3	58.7	29.3	9.8	9.8	4.9
80°	161.4	141.9	122.3	102.7	78.3	48.9	24.5	4.9	4.9	4.9
82.5°	151.6	132.1	112.5	92.9	73.4	48.9	24.5	4.9	0.0	0.0
85°	63.6	83.2	92.9	88.0	78.3	48.9	24.5	4.9	0.0	0.0
87.5°	34.2	29.3	24.5	19.6	14.7	9.8	9.8	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

(END OF REPORT)