

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: P454379

Luminaire Tested: **GALN-SA5C-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25381 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

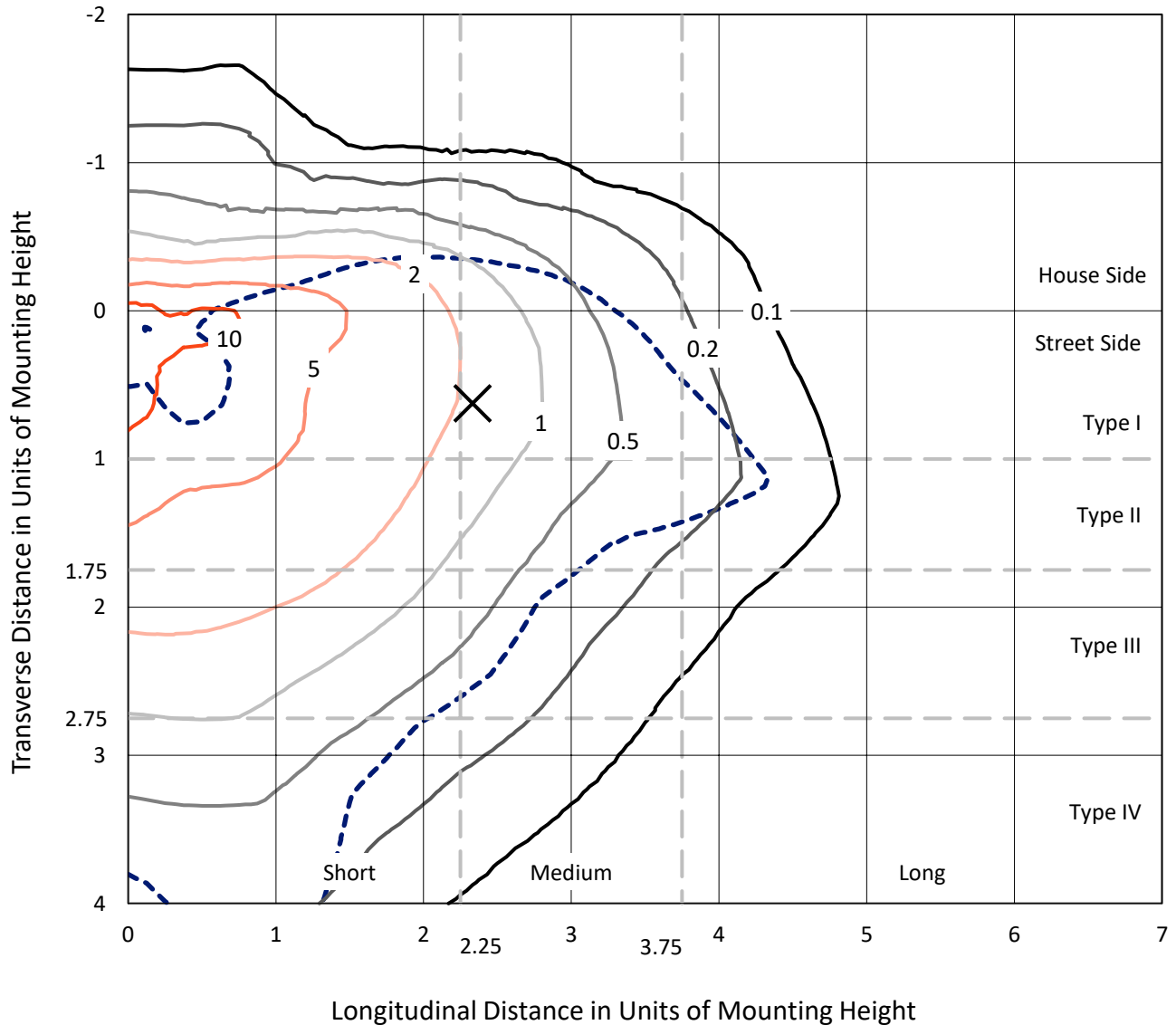
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

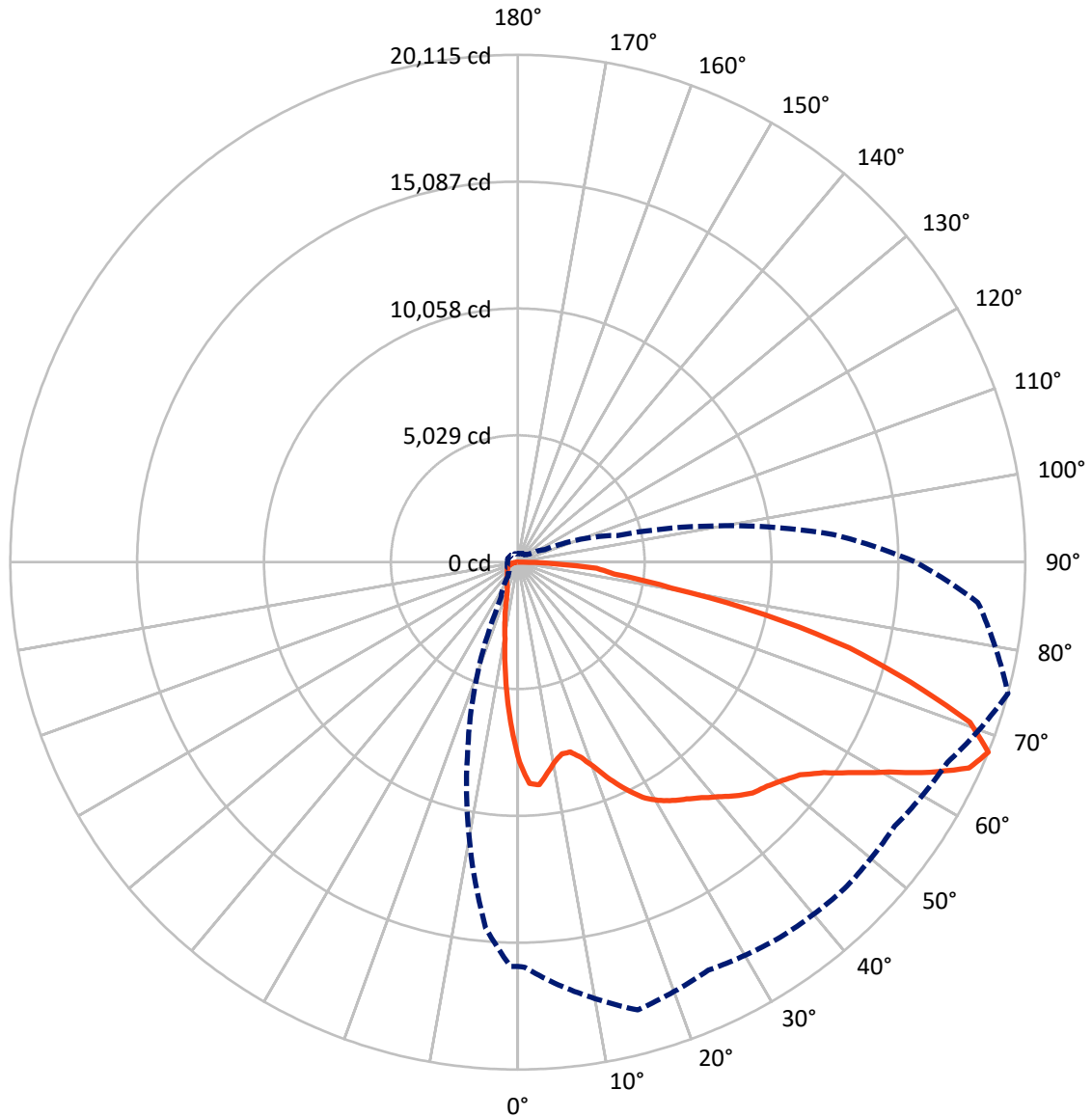
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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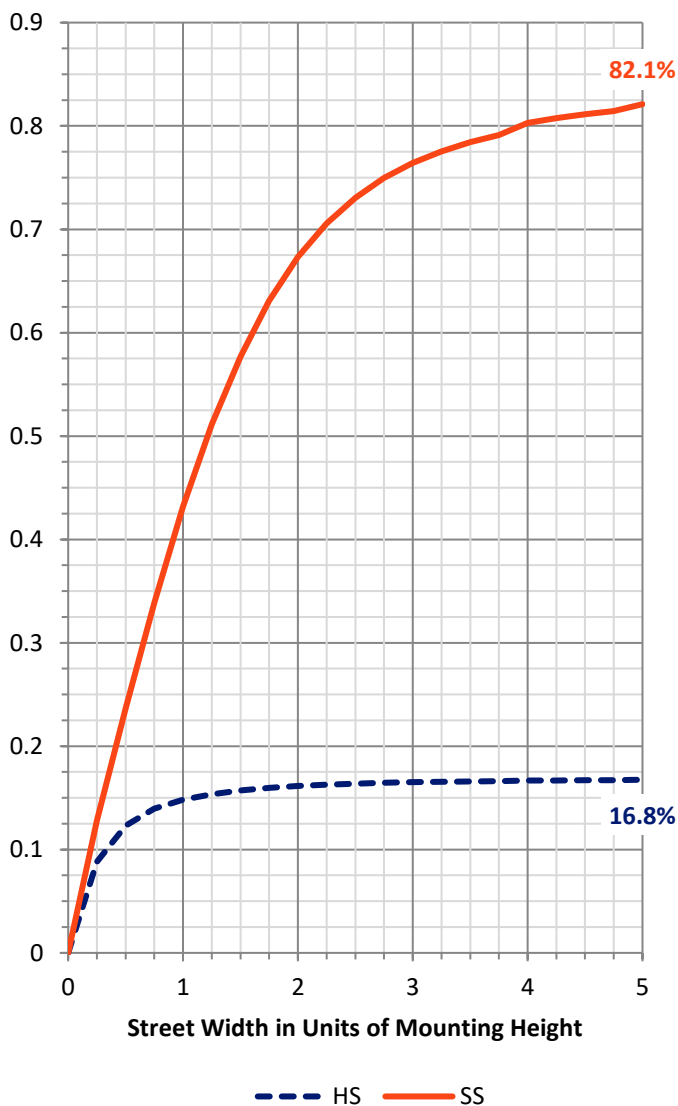
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4289.9	0.0	4289.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	21091.1	0.0	21091.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	25381.0	0.0	25381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.4	2.4
10°-20°	1254.3	4.9
20°-30°	1805.0	7.1
30°-40°	2599.7	10.2
40°-50°	3651.8	14.4
50°-60°	5093.0	20.1
60°-70°	6055.3	23.9
70°-80°	3566.2	14.1
80°-90°	754.1	3.0
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°	25381.0	100.0
0°-180°	25381.0	100.0

Coefficient of Utilization



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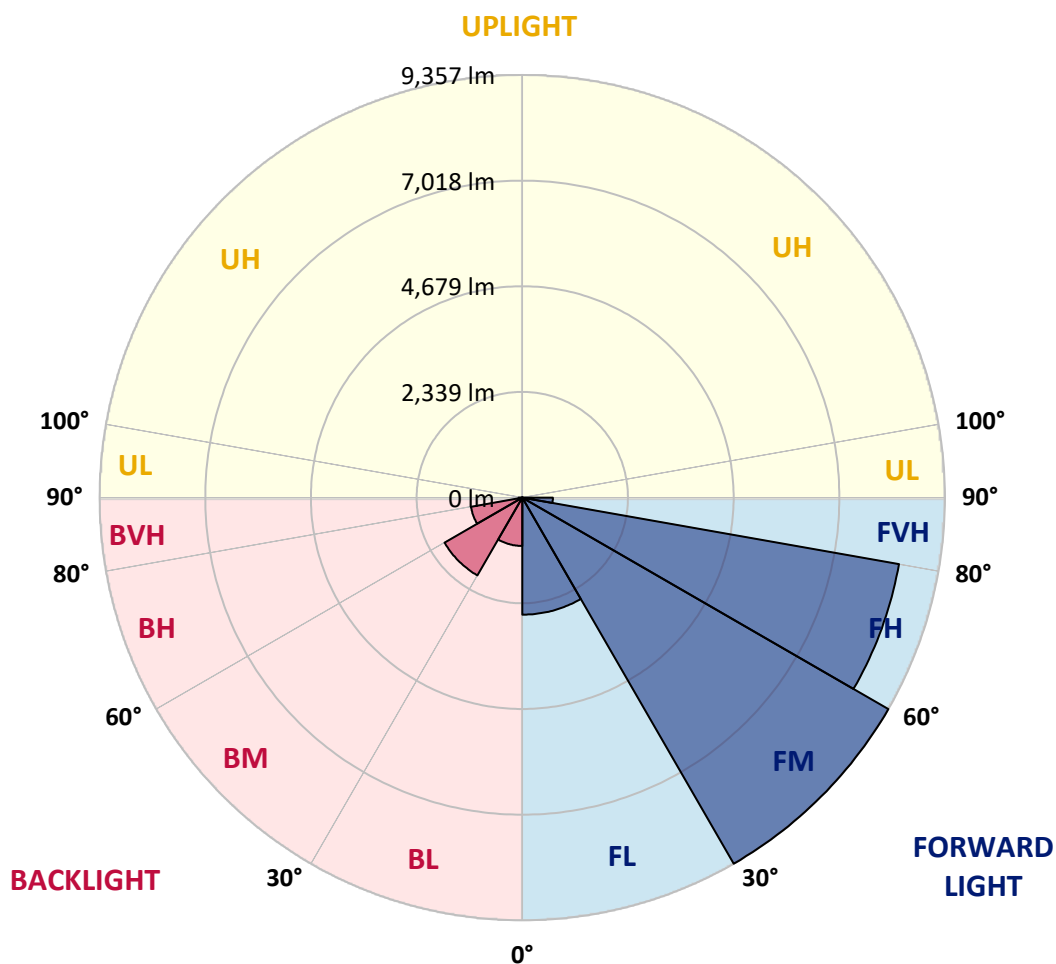
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2590.7	10.2			
FM	(30°-60°)	9357.0	36.9			
FH	(60°-80°)	8467.2	33.4			G4/12000
FVH	(80°-90°)	676.1	2.7			G4/750
BL	(0°-30°)	1070.0	4.2	B3/2500		
BM	(30°-60°)	1987.5	7.8	B2/2500		
BH	(60°-80°)	1154.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	78.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6
2.5°	8549.7	8561.1	8634.4	8847.6	8994.1	9047.8	9085.2	9015.2	8946.9	8780.9	8530.2
5°	8523.7	8590.4	8780.9	9259.4	9637.0	9799.7	9848.6	9638.6	9291.9	8865.5	8352.8
7.5°	8025.7	8115.2	8408.1	9210.5	9876.2	10257.1	10206.6	9827.4	9202.4	8442.3	7726.2
10°	7434.8	7534.1	7887.3	8857.4	9715.1	10239.2	10239.2	9776.9	8946.9	8043.6	7218.4
12.5°	6966.1	7070.3	7473.9	8494.4	9379.8	9876.2	9959.2	9562.1	8763.0	7791.3	6884.7
15°	6811.5	6912.4	7346.9	8274.7	9025.0	9327.7	9355.4	9225.2	8673.4	7809.2	6870.1
17.5°	7003.5	7133.7	7573.2	8339.8	8699.5	8717.4	8738.5	8841.1	8683.2	8136.3	7166.3
20°	7558.5	7698.5	8157.5	8549.7	8414.6	8229.1	8240.5	8504.2	8798.8	8676.7	7874.3
22.5°	8359.3	8481.4	8951.8	8919.2	8294.2	7911.7	7832.0	8199.8	8969.7	9350.5	8627.9
25°	9223.6	9366.8	9907.1	9467.7	8328.4	7722.9	7672.5	8020.8	9147.1	9980.4	9498.6
27.5°	10213.1	10353.1	10779.5	10021.1	8507.4	7708.3	7648.1	8004.5	9306.6	10563.1	10330.3
30°	10948.8	11077.4	11367.1	10486.6	8727.1	7805.9	7731.1	8133.1	9443.3	10961.8	11140.9
32.5°	11526.6	11660.1	11817.9	10776.3	9016.9	7983.3	7845.0	8367.4	9622.3	11266.2	11741.4
35°	12128.8	12286.7	12275.3	11033.4	9287.0	8188.4	8053.3	8706.0	9903.9	11531.5	12503.2
37.5°	12892.2	12955.6	12874.2	11264.6	9610.9	8557.9	8483.0	9208.9	10304.3	11852.1	13393.4
40°	13666.9	13793.8	13375.5	11544.5	10004.8	9252.9	9244.7	9952.7	10779.5	12228.1	14256.1
42.5°	14330.9	14438.4	13844.3	11788.6	10481.7	10100.8	10162.7	10950.4	11402.9	12664.3	14949.4
45°	14830.6	14926.6	14277.2	12024.6	11109.9	11080.6	11445.2	12019.8	12189.0	13056.5	15356.3
47.5°	15255.4	15348.2	14578.3	12382.7	11886.3	12250.9	12885.6	13134.7	12861.2	13281.1	15812.0
50°	15613.5	15641.2	14785.0	12809.1	12849.8	13684.8	14300.0	14461.1	13525.3	13603.4	16207.6
52.5°	15986.2	15950.4	15141.5	13346.2	13891.5	15045.5	15493.0	15660.7	14161.7	14000.5	16783.7
55°	16821.2	16855.3	15940.6	14023.3	14944.5	16381.7	16970.9	16809.8	14866.4	14731.3	17516.1
57.5°	17830.3	17801.0	17065.3	15082.9	16017.1	17625.2	18064.6	17805.8	15807.2	15735.6	18258.3
60°	18222.5	18261.6	18006.0	16222.2	17075.1	18714.0	19163.3	18761.2	16935.1	16902.5	18818.2
62.5°	17828.6	18048.4	18220.9	17236.2	17976.7	19514.8	19960.8	19501.8	18111.8	18347.8	19210.5
65°	17044.1	17091.3	17678.9	18095.6	18411.3	19646.7	19879.4	19635.3	19094.9	19664.6	19192.6
67.5°	16025.3	16066.0	16754.4	18377.1	17851.4	18149.3	18312.0	18240.4	18790.5	20115.4	18308.8
70°	15055.2	15022.7	15750.2	17659.4	15540.2	15087.8	15222.9	14998.3	16214.1	19013.5	16575.4
72.5°	13167.2	13284.4	14065.6	15663.9	12304.6	11568.9	11863.5	11282.5	12470.6	16284.1	13453.7
75°	10314.0	10341.7	11645.4	13146.1	9282.2	8121.7	8520.4	8277.9	9552.3	13583.9	9290.3
77.5°	7141.9	7080.0	8481.4	10040.6	6619.4	5945.6	5952.1	5836.5	6669.9	10001.5	6311.8
80°	4536.1	4441.7	5309.2	6202.8	4549.1	4866.5	4707.0	4702.1	4342.4	6170.2	3816.7
82.5°	2451.2	2555.3	3354.5	3888.3	3263.3	3761.4	3447.2	3346.3	2980.1	3862.3	2441.4
85°	1116.5	1214.2	1788.7	2644.8	2478.8	2506.5	1674.8	1975.9	2465.8	3136.4	1303.7
87.5°	109.0	140.0	369.5	1248.4	846.3	667.3	249.0	480.1	620.1	1114.9	104.2
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°	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6
2.5°	8427.7	8343.0	8054.9	7817.3	7565.0	7373.0	7122.3	6954.7	6839.1	6665.0	6643.8
5°	8040.3	7833.6	7332.3	6821.2	6380.2	6048.1	5711.2	5402.0	5219.7	5162.7	5089.5
7.5°	7387.6	7039.3	6394.8	5808.9	5302.7	4807.9	4427.0	4156.9	3976.2	3870.4	3743.5
10°	6850.5	6446.9	5662.4	4944.6	4528.0	4220.3	3885.1	3595.3	3372.4	3181.9	3077.8
12.5°	6489.2	6033.5	5151.3	4568.6	4246.4	3919.2	3527.0	3201.5	2872.7	2656.2	2563.5
15°	6380.2	5898.4	4993.5	4381.5	3919.2	3491.2	3051.7	2626.9	2301.4	2096.3	2028.0
17.5°	6647.1	6064.4	4991.8	4132.5	3535.1	3024.1	2460.9	2062.2	1728.5	1575.5	1526.7
20°	7145.1	6383.4	5006.5	3886.7	3118.5	2399.1	1790.4	1463.2	1303.7	1238.6	1214.2
22.5°	7840.1	6870.1	5050.4	3644.2	2662.7	1842.4	1341.1	1175.1	1118.2	1106.8	1101.9
25°	8696.2	7472.3	5198.5	3426.1	2278.6	1406.2	1121.4	1046.5	1014.0	1002.6	1001.0
27.5°	9484.0	8250.3	5377.6	3238.9	1907.5	1212.6	1014.0	950.5	918.0	916.3	919.6
30°	10195.2	8901.3	5527.3	3028.9	1626.0	1077.5	944.0	880.5	849.6	848.0	857.7
32.5°	10810.5	9436.8	5638.0	2822.2	1469.7	994.5	880.5	812.2	786.1	781.2	786.1
35°	11468.0	9970.6	5587.5	2661.1	1380.2	926.1	833.3	766.6	735.7	721.0	721.0
37.5°	12218.3	10520.8	5501.3	2527.6	1339.5	869.1	792.6	727.5	696.6	682.0	680.3
40°	13037.0	11070.9	5382.4	2408.8	1298.8	835.0	765.0	696.6	659.2	644.5	641.3
42.5°	13759.7	11541.3	5284.8	2330.7	1232.1	841.5	740.6	673.8	626.6	607.1	605.5
45°	14387.9	12014.9	5266.9	2285.1	1176.7	831.7	734.0	655.9	600.6	579.4	576.2
47.5°	14879.4	12508.0	5369.4	2259.1	1116.5	779.6	776.4	644.5	577.8	555.0	551.8
50°	15478.4	13207.9	5603.8	2205.4	1061.2	730.8	820.3	642.9	559.9	530.6	522.5
52.5°	16275.9	14119.4	5921.2	2109.4	981.4	685.2	782.9	642.9	538.7	509.4	499.7
55°	17482.0	15281.5	6232.0	1974.3	869.1	625.0	706.4	623.4	507.8	481.8	475.3
57.5°	18281.1	16131.1	6430.6	1787.1	729.2	581.1	608.7	592.4	476.9	449.2	449.2
60°	18321.8	16358.9	6336.2	1551.1	641.3	540.4	529.0	597.3	449.2	419.9	416.7
62.5°	17853.0	15800.7	5844.7	1339.5	594.1	496.4	478.5	524.1	421.5	392.2	387.4
65°	17120.6	14376.5	4991.8	1238.6	568.0	457.4	431.3	429.7	392.2	364.6	358.1
67.5°	15774.6	12563.4	4101.5	1180.0	555.0	413.4	389.0	380.9	358.1	335.3	332.0
70°	13790.6	10522.4	3289.4	1155.6	548.5	367.8	348.3	338.5	319.0	301.1	299.5
72.5°	10729.1	8535.1	2714.8	1139.3	545.2	325.5	304.4	291.3	279.9	263.7	263.7
75°	7706.6	6279.2	2071.9	1027.0	504.6	279.9	257.2	249.0	232.7	219.7	223.0
77.5°	4858.4	4228.5	1363.9	755.2	390.6	224.6	205.1	200.2	187.2	169.3	180.7
80°	3281.2	2973.6	795.9	475.3	245.8	164.4	157.9	156.2	141.6	122.1	123.7
82.5°	2233.1	2190.7	413.4	270.2	141.6	96.0	92.8	96.0	79.8	65.1	65.1
85°	872.4	1191.4	195.3	105.8	45.6	14.6	21.2	22.8	13.0	6.5	8.1
87.5°	16.3	122.1	4.9	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°	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6
2.5°	6611.3	6596.6	6621.0	6516.9	6538.0	6577.1	6596.6	6608.0	6769.2	6731.7	6834.3
5°	5157.8	5143.2	5237.6	5250.6	5299.4	5289.7	5336.9	5348.3	5406.9	5428.0	5571.2
7.5°	3751.6	3815.1	3922.5	3977.8	4060.8	4086.9	4062.5	4122.7	4000.6	4088.5	4114.6
10°	3014.3	2937.8	2892.2	3019.2	3035.5	3155.9	3107.1	3068.0	3139.6	3142.9	3211.2
12.5°	2509.7	2345.4	2236.3	2272.1	2311.2	2363.3	2371.4	2449.5	2501.6	2550.4	2591.1
15°	1967.8	1910.8	1811.5	1762.7	1818.0	1839.2	1889.6	1954.7	2010.1	2024.7	2080.1
17.5°	1510.4	1520.2	1503.9	1474.6	1508.8	1525.1	1528.3	1529.9	1544.6	1534.8	1616.2
20°	1215.8	1250.0	1290.7	1297.2	1308.6	1316.7	1302.1	1246.7	1248.4	1282.5	1308.6
22.5°	1100.3	1106.8	1152.3	1167.0	1202.8	1188.1	1145.8	1119.8	1116.5	1124.7	1137.7
25°	1009.1	1018.9	1051.4	1074.2	1101.9	1075.8	1044.9	1020.5	1017.2	1025.4	1038.4
27.5°	927.7	942.4	971.7	994.5	1020.5	996.1	966.8	945.6	944.0	942.4	950.5
30°	862.6	878.9	900.1	926.1	944.0	922.8	895.2	883.8	882.2	878.9	882.2
32.5°	797.5	823.6	844.7	857.7	875.6	859.4	838.2	831.7	820.3	810.5	805.7
35°	724.3	751.9	784.5	800.8	818.7	802.4	787.8	760.1	740.6	738.9	742.2
37.5°	682.0	693.4	719.4	747.1	765.0	756.8	729.2	701.5	696.6	696.6	699.9
40°	644.5	649.4	660.8	696.6	729.2	704.7	670.6	662.4	662.4	660.8	662.4
42.5°	607.1	612.0	612.0	639.6	691.7	652.7	626.6	626.6	626.6	628.3	633.1
45°	572.9	574.5	572.9	592.4	641.3	608.7	590.8	595.7	599.0	602.2	605.5
47.5°	543.6	545.2	543.6	559.9	584.3	571.3	561.5	568.0	574.5	579.4	582.7
50°	517.6	515.9	519.2	529.0	540.4	543.6	537.1	546.9	550.1	556.6	564.8
52.5°	494.8	493.2	496.4	501.3	517.6	517.6	517.6	525.7	532.2	538.7	550.1
55°	468.7	470.4	475.3	481.8	502.9	499.7	501.3	507.8	514.3	524.1	530.6
57.5°	444.3	447.6	454.1	463.9	485.0	483.4	485.0	488.3	496.4	501.3	507.8
60°	416.7	423.2	431.3	437.8	459.0	457.4	465.5	472.0	476.9	476.9	480.1
62.5°	389.0	398.8	406.9	411.8	434.6	436.2	447.6	452.5	455.7	452.5	457.4
65°	361.3	376.0	379.2	385.7	408.5	410.2	423.2	434.6	431.3	428.1	436.2
67.5°	333.7	351.6	349.9	358.1	380.9	384.1	395.5	415.0	408.5	405.3	411.8
70°	302.7	315.8	317.4	322.3	353.2	348.3	366.2	384.1	379.2	380.9	380.9
72.5°	268.6	279.9	279.9	289.7	322.3	314.1	328.8	348.3	348.3	346.7	346.7
75°	227.9	234.4	240.9	255.5	289.7	279.9	289.7	307.6	310.9	307.6	307.6
77.5°	183.9	193.7	196.9	216.5	240.9	239.3	249.0	257.2	263.7	260.4	260.4
80°	130.2	140.0	153.0	174.2	188.8	193.7	198.6	205.1	208.3	208.3	211.6
82.5°	73.2	87.9	99.3	120.4	127.0	151.4	149.7	154.6	149.7	131.8	146.5
85°	16.3	30.9	43.9	55.3	63.5	87.9	92.8	104.2	86.3	79.8	79.8
87.5°	0.0	0.0	0.0	0.0	0.0	13.0	26.0	35.8	30.9	26.0	26.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6
2.5°	6920.5	7062.1	7233.0	7527.6	7734.3	7957.3	8181.9	8421.2	8484.6	8549.7
5°	5610.3	5888.6	6040.0	6435.5	6850.5	7377.9	7809.2	8281.2	8478.1	8523.7
7.5°	4249.6	4438.4	4835.6	5236.0	5750.3	6303.7	6964.5	7700.1	7929.6	8025.7
10°	3369.1	3626.3	3974.6	4404.3	4855.1	5450.8	6196.2	7055.6	7381.1	7434.8
12.5°	2867.8	3154.3	3533.5	3987.6	4414.0	4863.2	5615.2	6502.2	6850.5	6966.1
15°	2293.3	2640.0	3077.8	3556.3	4020.2	4511.7	5273.4	6274.4	6676.4	6811.5
17.5°	1801.7	2081.7	2555.3	3074.5	3624.6	4246.4	5201.8	6383.4	6878.2	7003.5
20°	1378.6	1578.8	1977.5	2526.0	3170.5	3984.3	5219.7	6795.2	7387.6	7558.5
22.5°	1191.4	1293.9	1536.4	2058.9	2779.9	3756.5	5292.9	7360.0	8074.5	8359.3
25°	1079.1	1132.8	1269.5	1611.3	2407.2	3535.1	5460.6	8120.1	9034.8	9223.6
27.5°	983.1	1022.1	1106.8	1352.5	2068.7	3330.1	5655.9	8963.1	9931.6	10213.1
30°	891.9	944.0	1023.8	1201.2	1852.2	3142.9	5901.6	9646.7	10686.8	10948.8
32.5°	821.9	874.0	947.3	1095.4	1668.3	2945.9	6048.1	10247.3	11303.6	11526.6
35°	765.0	808.9	885.4	1010.7	1528.3	2796.2	6018.8	10724.2	11900.9	12128.8
37.5°	724.3	761.7	838.2	931.0	1422.5	2640.0	6004.2	11354.1	12628.5	12892.2
40°	686.8	725.9	795.9	878.9	1316.7	2456.0	6012.3	11979.1	13403.2	13666.9
42.5°	657.5	701.5	758.5	864.3	1207.7	2307.9	6012.3	12522.7	14077.0	14330.9
45°	633.1	680.3	735.7	862.6	1121.4	2195.6	5971.6	12989.8	14614.1	14830.6
47.5°	612.0	664.1	743.8	833.3	1100.3	2114.2	5935.8	13364.2	15052.0	15255.4
50°	597.3	659.2	791.0	799.1	1106.8	2089.8	6108.4	13836.2	15437.7	15613.5
52.5°	585.9	660.8	789.4	748.7	1095.4	2106.1	6468.0	14573.5	15973.2	15986.2
55°	563.1	659.2	748.7	691.7	1048.2	2133.8	6930.3	15644.4	16811.4	16821.2
57.5°	540.4	641.3	695.0	642.9	952.1	2133.8	7486.9	16658.4	17822.1	17830.3
60°	517.6	667.3	610.3	600.6	826.8	2094.7	8074.5	17104.4	18139.5	18222.5
62.5°	494.8	672.2	545.2	563.1	735.7	2000.3	8512.3	16611.2	17709.8	17828.6
65°	468.7	542.0	502.9	524.1	688.5	1842.4	8374.0	15707.9	16902.5	17044.1
67.5°	437.8	459.0	457.4	483.4	672.2	1609.7	7644.8	14565.3	16033.4	16025.3
70°	400.4	411.8	416.7	444.3	641.3	1429.0	6370.4	13082.6	14872.9	15055.2
72.5°	361.3	371.1	376.0	400.4	610.3	1326.5	4944.6	11040.0	12882.4	13167.2
75°	319.0	325.5	332.0	353.2	577.8	1175.1	3522.1	8427.7	9866.5	10314.0
77.5°	275.1	275.1	283.2	304.4	486.6	970.0	2363.3	5911.4	6684.5	7141.9
80°	223.0	224.6	221.4	244.1	358.1	664.1	1342.8	3948.5	4448.2	4536.1
82.5°	170.9	166.0	167.6	179.0	266.9	452.5	716.1	2452.8	2500.0	2451.2
85°	107.4	107.4	104.2	117.2	170.9	236.0	390.6	1502.3	1173.5	1116.5
87.5°	43.9	35.8	40.7	47.2	81.4	96.0	153.0	309.2	118.8	109.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)