

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: P651022

Luminaire Tested: **GALN-SA7C-840-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651022
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-SA7C-840-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 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: 35498.6 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

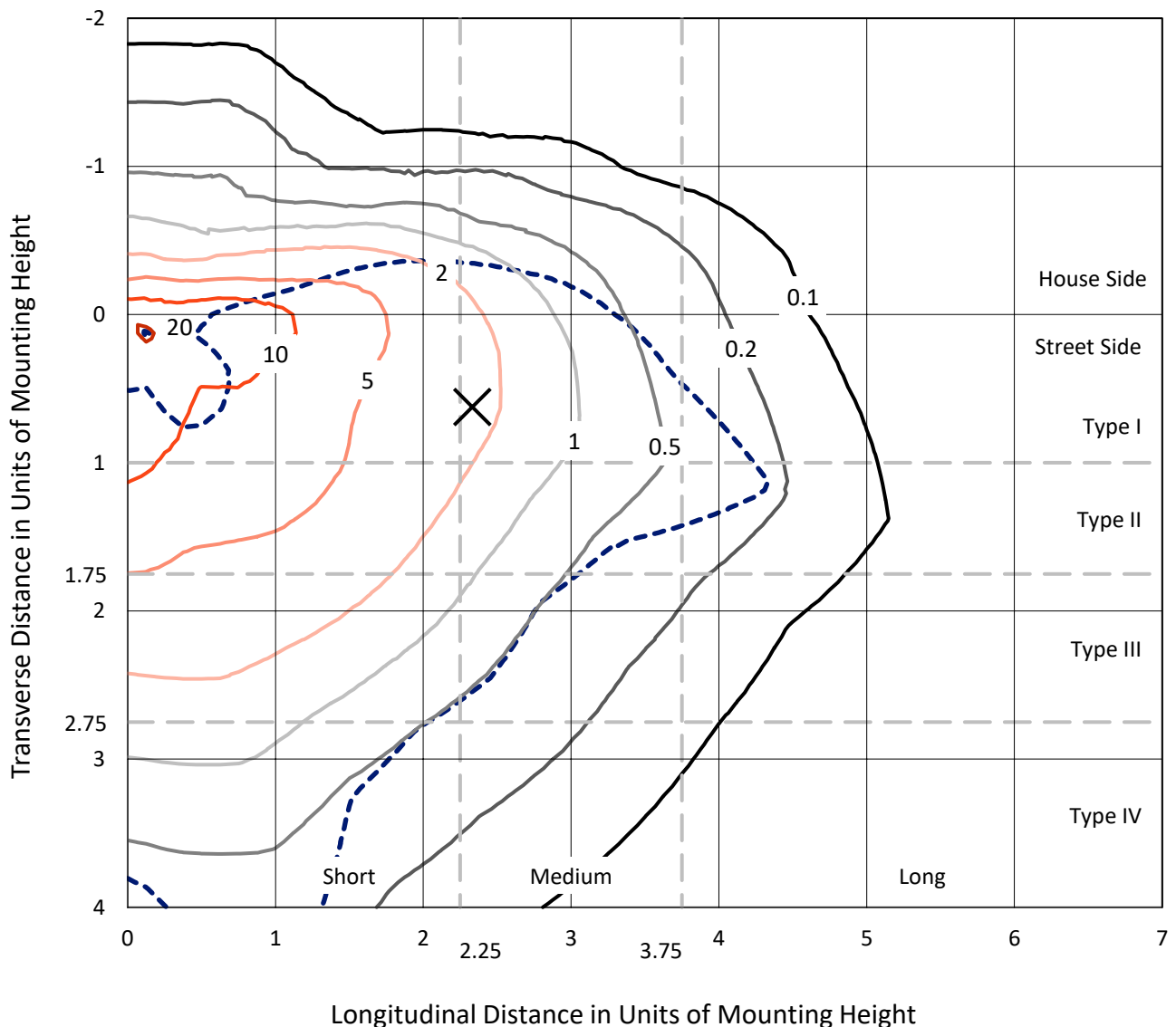
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

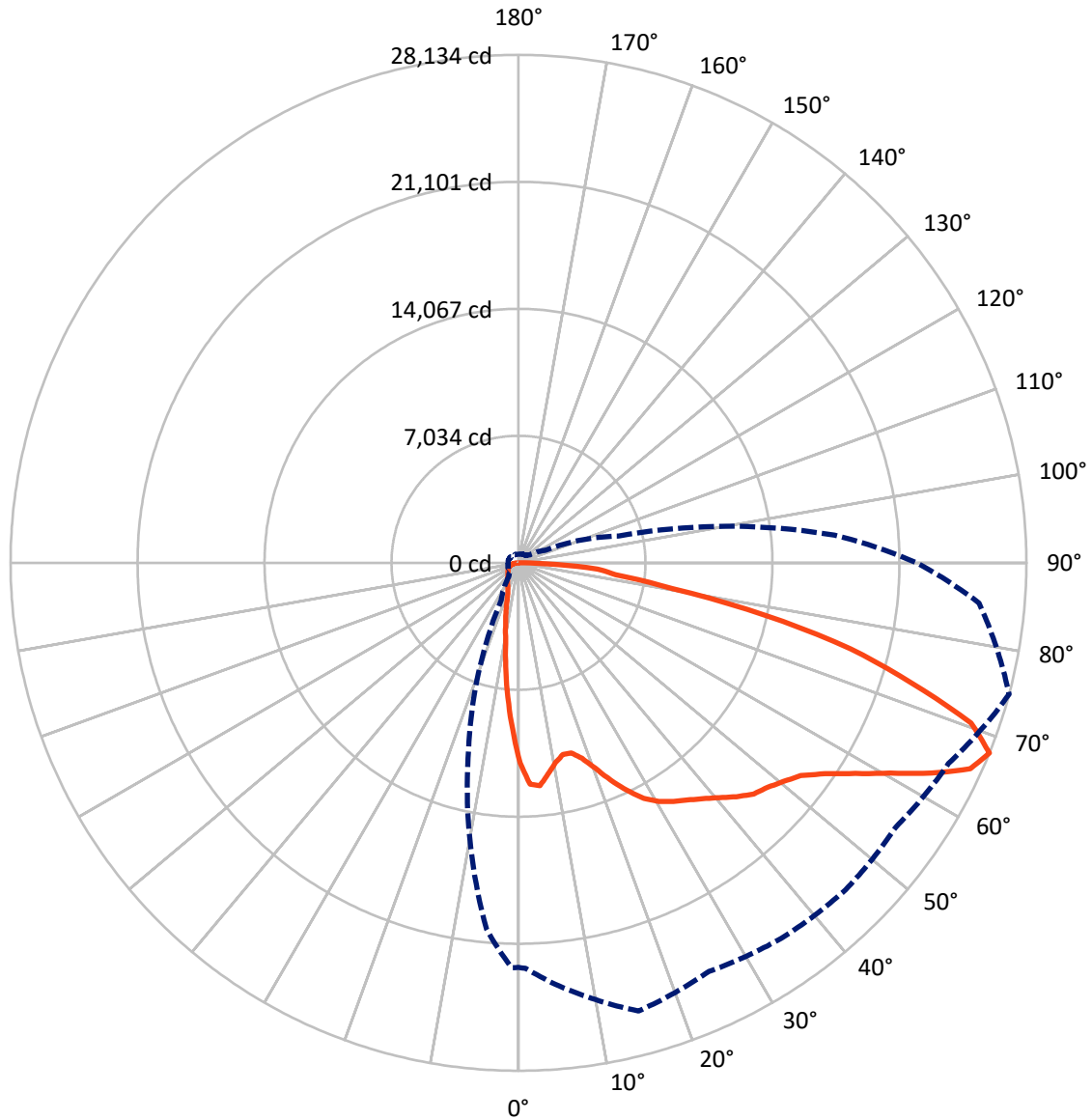
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.9 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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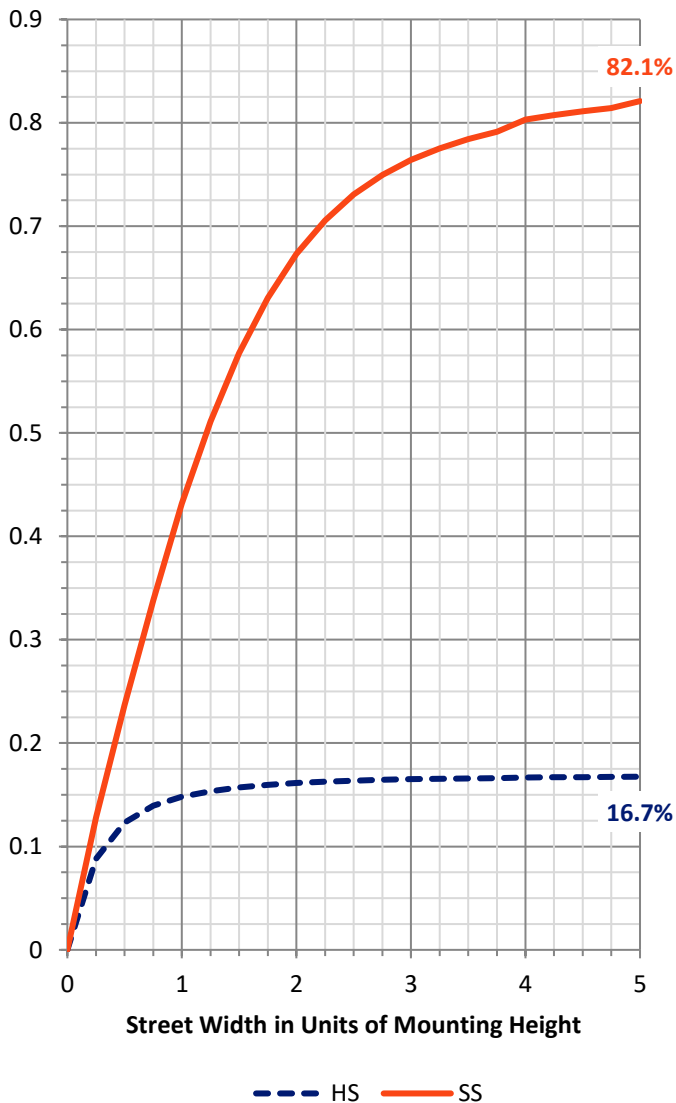
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6000.0	0.0	6000.0
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	29498.6	0.0	29498.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	35498.6	0.0	35498.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	841.2	2.4
10°-20°	1754.3	4.9
20°-30°	2524.5	7.1
30°-40°	3636.0	10.2
40°-50°	5107.6	14.4
50°-60°	7123.3	20.1
60°-70°	8469.1	23.9
70°-80°	4987.8	14.1
80°-90°	1054.7	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°	35498.6	100.0
0°-180°	35498.6	100.0

Coefficient of Utilization

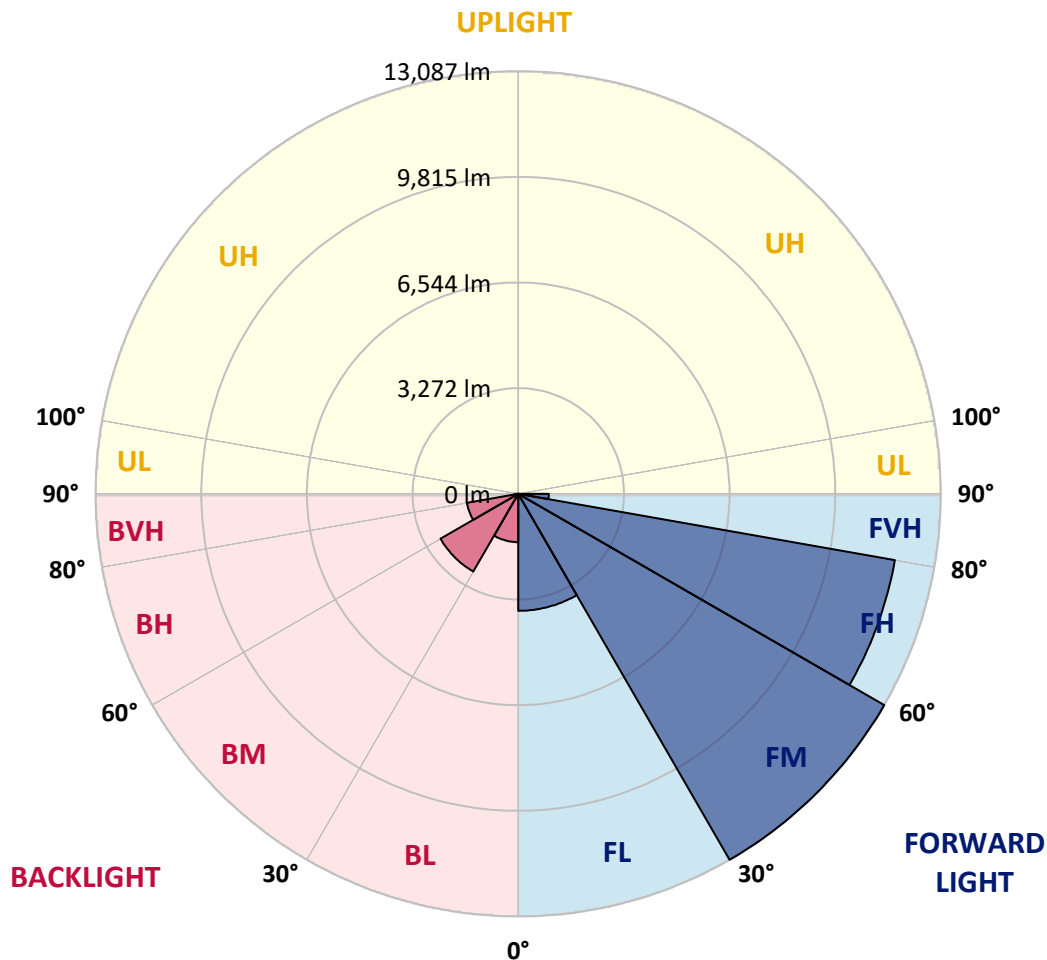


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3623.4	10.2			
FM (30°-60°)	13087.0	36.9			
FH (60°-80°)	11842.5	33.4			G4/12000
FVH (80°-90°)	945.6	2.7			G5
BL (0°-30°)	1496.6	4.2	B3/2500		
BM (30°-60°)	2779.8	7.8	B3/5000		
BH (60°-80°)	1614.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	109.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6
2.5°	11957.9	11973.8	12076.3	12374.5	12579.3	12654.5	12706.8	12608.9	12513.3	12281.1	11930.6
5°	11921.5	12014.9	12281.1	12950.4	13478.5	13706.2	13774.5	13480.8	12996.0	12399.5	11682.5
7.5°	11224.9	11350.1	11759.9	12882.1	13813.2	14345.9	14275.3	13744.9	12870.7	11807.6	10806.1
10°	10398.5	10537.5	11031.4	12388.2	13587.8	14320.8	14320.8	13674.3	12513.3	11250.0	10095.8
12.5°	9743.0	9888.6	10453.2	11880.6	13118.8	13813.2	13929.3	13373.8	12256.1	10897.1	9629.2
15°	9526.7	9667.9	10275.7	11573.2	12622.7	13046.0	13084.7	12902.6	12130.9	10922.2	9608.7
17.5°	9795.3	9977.5	10592.1	11664.2	12167.3	12192.4	12222.0	12365.4	12144.5	11379.7	10023.0
20°	10571.6	10767.3	11409.3	11957.9	11769.0	11509.4	11525.4	11894.2	12306.2	12135.5	11013.2
22.5°	11691.6	11862.3	12520.2	12474.6	11600.5	11065.5	10954.0	11468.5	12545.2	13077.9	12067.2
25°	12900.4	13100.7	13856.4	13241.8	11648.4	10801.5	10730.9	11218.1	12793.4	13958.8	13285.0
27.5°	14284.4	14480.2	15076.6	14015.8	11898.7	10781.0	10696.8	11195.3	13016.4	14773.8	14448.3
30°	15313.3	15493.2	15898.3	14666.8	12206.0	10917.6	10812.9	11375.1	13207.7	15331.5	15582.0
32.5°	16121.5	16308.1	16528.9	15072.1	12611.2	11165.7	10972.3	11702.9	13458.0	15757.2	16422.0
35°	16963.7	17184.5	17168.6	15431.7	12989.2	11452.6	11263.6	12176.4	13851.9	16128.3	17487.2
37.5°	18031.4	18120.1	18006.3	15755.0	13442.1	11969.3	11864.6	12879.8	14411.9	16576.7	18732.4
40°	19114.9	19292.5	18707.5	16146.4	13993.0	12941.3	12930.0	13920.1	15076.6	17102.6	19938.9
42.5°	20043.6	20193.9	19363.0	16488.0	14660.0	14127.3	14213.8	15315.6	15948.5	17712.6	20908.7
45°	20742.5	20876.8	19968.5	16818.0	15538.7	15497.7	16007.6	16811.2	17047.9	18261.2	21477.8
47.5°	21336.7	21466.4	20389.7	17318.8	16624.6	17134.4	18022.2	18370.6	17988.1	18575.4	22115.2
50°	21837.5	21876.2	20678.8	17915.2	17972.2	19140.0	20000.4	20225.8	18916.9	19026.1	22668.4
52.5°	22358.7	22308.7	21177.3	18666.4	19429.0	21043.0	21669.0	21903.5	19806.9	19581.6	23474.2
55°	23526.6	23574.4	22295.0	19613.5	20901.9	22912.0	23736.0	23510.7	20792.6	20603.7	24498.6
57.5°	24937.9	24897.0	23868.0	21095.4	22402.1	24651.1	25265.7	24903.8	22108.4	22008.2	25536.6
60°	25486.5	25541.2	25183.7	22688.8	23881.7	26174.0	26802.3	26240.0	23685.9	23640.3	26319.7
62.5°	24935.6	25243.0	25484.2	24107.0	25142.8	27294.0	27917.8	27275.8	25331.8	25661.9	26868.4
65°	23838.4	23904.4	24726.2	25309.0	25750.6	27478.4	27803.9	27462.4	26706.7	27503.4	26843.3
67.5°	22413.4	22470.3	23433.2	25702.8	24967.5	25384.1	25611.7	25511.6	26281.0	28134.0	25607.2
70°	21056.7	21011.1	22028.7	24698.9	21735.1	21102.2	21291.2	20977.0	22677.5	26592.8	23182.8
72.5°	18416.0	18580.0	19672.6	21908.0	17209.6	16180.6	16592.7	15780.0	17441.8	22775.4	18816.7
75°	14425.5	14464.2	16287.6	18386.4	12982.3	11359.2	11917.0	11577.8	13360.2	18998.8	12993.7
77.5°	9988.8	9902.4	11862.3	14043.1	9258.1	8315.6	8324.8	8163.2	9328.7	13988.4	8827.9
80°	6344.3	6212.3	7425.6	8675.3	6362.5	6806.5	6583.3	6576.5	6073.4	8629.8	5338.2
82.5°	3428.3	3573.9	4691.7	5438.3	4564.2	5260.8	4821.4	4680.2	4168.1	5401.9	3414.6
85°	1561.6	1698.2	2501.7	3699.1	3466.9	3505.6	2342.4	2763.5	3448.8	4386.7	1823.4
87.5°	152.6	195.8	516.7	1746.0	1183.7	933.3	348.3	671.5	867.3	1559.3	145.7
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°	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6
2.5°	11787.2	11668.8	11265.9	10933.5	10580.7	10312.1	9961.5	9727.0	9565.4	9321.8	9292.3
5°	11245.4	10956.3	10255.2	9540.4	8923.5	8459.1	7987.9	7555.4	7300.4	7220.7	7118.3
7.5°	10332.5	9845.4	8944.0	8124.5	7416.5	6724.5	6191.8	5813.9	5561.2	5413.3	5235.7
10°	9581.3	9016.8	7919.6	6915.7	6332.9	5902.7	5433.8	5028.6	4716.7	4450.3	4304.7
12.5°	9076.0	8438.6	7204.8	6389.8	5939.1	5481.6	4933.0	4477.7	4017.9	3715.1	3585.4
15°	8923.5	8249.6	6984.0	6128.0	5481.6	4882.8	4268.2	3674.1	3218.8	2932.0	2836.4
17.5°	9296.8	8481.8	6981.7	5779.8	4944.3	4229.6	3441.9	2884.2	2417.5	2203.6	2135.3
20°	9993.4	8928.1	7002.2	5436.1	4361.6	3355.4	2504.1	2046.5	1823.4	1732.4	1698.2
22.5°	10965.4	9608.7	7063.6	5096.9	3724.2	2576.9	1875.8	1643.6	1563.9	1547.9	1541.1
25°	12162.8	10450.9	7270.8	4791.8	3187.0	1966.8	1568.5	1463.8	1418.2	1402.3	1400.0
27.5°	13264.6	11539.0	7521.2	4530.0	2667.9	1695.9	1418.2	1329.5	1283.9	1281.6	1286.1
30°	14259.3	12449.6	7730.6	4236.4	2274.1	1507.0	1320.3	1231.6	1188.2	1186.0	1199.7
32.5°	15119.8	13198.6	7885.5	3947.2	2055.6	1390.8	1231.6	1135.9	1099.5	1092.7	1099.5
35°	16039.5	13945.2	7814.9	3721.9	1930.3	1295.3	1165.5	1072.2	1029.0	1008.4	1008.4
37.5°	17089.0	14714.6	7694.2	3535.2	1873.5	1215.6	1108.6	1017.5	974.3	953.8	951.5
40°	18234.0	15484.1	7528.0	3369.0	1816.6	1167.8	1069.9	974.3	921.9	901.5	896.9
42.5°	19244.7	16141.9	7391.5	3259.8	1723.2	1176.9	1035.8	942.4	876.4	849.1	846.8
45°	20123.4	16804.4	7366.4	3196.1	1645.8	1163.3	1026.7	917.4	840.0	810.4	805.8
47.5°	20810.8	17494.1	7509.8	3159.6	1561.6	1090.4	1085.8	901.5	808.1	776.2	771.7
50°	21648.5	18473.0	7837.6	3084.5	1484.2	1022.1	1147.3	899.2	783.1	742.1	730.7
52.5°	22763.9	19747.8	8281.5	2950.2	1372.7	958.4	1095.0	899.2	753.5	712.5	698.9
55°	24450.8	21373.1	8716.3	2761.3	1215.6	874.1	987.9	871.9	710.2	673.8	664.7
57.5°	25568.5	22561.3	8994.1	2499.5	1019.8	812.7	851.3	828.6	667.0	628.3	628.3
60°	25625.4	22880.1	8862.0	2169.4	896.9	755.7	739.8	835.4	628.3	587.3	582.7
62.5°	24969.8	22099.3	8174.5	1873.5	830.9	694.3	669.3	733.0	589.6	548.6	541.8
65°	23945.5	20107.4	6981.7	1732.4	794.5	639.7	603.2	601.0	548.6	509.9	500.8
67.5°	22062.9	17571.5	5736.5	1650.4	776.2	578.2	544.0	532.7	500.8	468.9	464.4
70°	19287.9	14716.9	4600.6	1616.2	767.2	514.4	487.1	473.5	446.2	421.2	418.8
72.5°	15006.0	11937.4	3797.0	1593.4	762.6	455.3	425.7	407.5	391.6	368.8	368.8
75°	10778.8	8782.3	2897.8	1436.4	705.7	391.6	359.7	348.3	325.6	307.3	311.8
77.5°	6795.0	5914.1	1907.6	1056.2	546.3	314.1	286.9	280.0	261.8	236.7	252.7
80°	4589.3	4159.0	1113.1	664.7	343.7	229.9	220.8	218.6	198.1	170.7	173.0
82.5°	3123.2	3064.0	578.2	377.9	198.1	134.3	129.8	134.3	111.5	91.1	91.1
85°	1220.1	1666.4	273.2	147.9	63.7	20.5	29.6	31.9	18.2	9.1	11.4
87.5°	22.8	170.7	6.8	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°	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6
2.5°	9246.7	9226.3	9260.4	9114.7	9144.3	9198.9	9226.3	9242.2	9467.6	9415.2	9558.6
5°	7213.9	7193.4	7325.4	7343.7	7412.0	7398.3	7464.3	7480.3	7562.2	7591.8	7792.1
7.5°	5247.1	5335.9	5486.1	5563.6	5679.6	5716.0	5681.9	5766.1	5595.4	5718.3	5754.7
10°	4215.8	4108.9	4045.1	4222.7	4245.5	4413.9	4345.6	4291.0	4391.2	4395.7	4491.4
12.5°	3510.2	3280.3	3127.8	3177.9	3232.5	3305.3	3316.7	3426.0	3498.8	3567.1	3624.0
15°	2752.2	2672.5	2533.6	2465.3	2542.8	2572.4	2642.9	2733.9	2811.4	2831.8	2909.3
17.5°	2112.5	2126.1	2103.4	2062.4	2110.2	2132.9	2137.6	2139.8	2160.3	2146.7	2260.4
20°	1700.5	1748.3	1805.2	1814.3	1830.2	1841.6	1821.1	1743.7	1746.0	1793.8	1830.2
22.5°	1538.9	1547.9	1611.7	1632.2	1682.3	1661.7	1602.6	1566.2	1561.6	1573.0	1591.2
25°	1411.4	1425.0	1470.6	1502.4	1541.1	1504.7	1461.4	1427.3	1422.7	1434.2	1452.3
27.5°	1297.6	1318.0	1359.0	1390.8	1427.3	1393.1	1352.2	1322.6	1320.3	1318.0	1329.5
30°	1206.5	1229.3	1258.8	1295.3	1320.3	1290.7	1252.0	1236.1	1233.8	1229.3	1233.8
32.5°	1115.4	1151.8	1181.4	1199.7	1224.7	1202.0	1172.4	1163.3	1147.3	1133.7	1126.9
35°	1013.0	1051.7	1097.3	1120.0	1145.0	1122.2	1101.8	1063.1	1035.8	1033.5	1038.0
37.5°	953.8	969.8	1006.2	1044.9	1069.9	1058.5	1019.8	981.1	974.3	974.3	978.8
40°	901.5	908.3	924.3	974.3	1019.8	985.7	937.9	926.5	926.5	924.3	926.5
42.5°	849.1	855.9	855.9	894.7	967.5	912.8	876.4	876.4	876.4	878.7	885.5
45°	801.3	803.6	801.3	828.6	896.9	851.3	826.4	833.2	837.7	842.3	846.8
47.5°	760.3	762.6	760.3	783.1	817.2	799.0	785.3	794.5	803.6	810.4	814.9
50°	723.9	721.6	726.2	739.8	755.7	760.3	751.2	764.9	769.4	778.5	790.0
52.5°	692.1	689.8	694.3	701.1	723.9	723.9	723.9	735.3	744.4	753.5	769.4
55°	655.6	657.9	664.7	673.8	703.4	698.9	701.1	710.2	719.3	733.0	742.1
57.5°	621.4	626.0	635.1	648.7	678.4	676.1	678.4	682.9	694.3	701.1	710.2
60°	582.7	591.9	603.2	612.3	641.9	639.7	651.0	660.2	667.0	667.0	671.5
62.5°	544.0	557.8	569.1	575.9	607.8	610.1	626.0	632.9	637.4	632.9	639.7
65°	505.4	525.9	530.4	539.5	571.4	573.6	591.9	607.8	603.2	598.7	610.1
67.5°	466.7	491.7	489.5	500.8	532.7	537.2	553.1	580.5	571.4	566.8	575.9
70°	423.4	441.6	443.9	450.7	494.0	487.1	512.2	537.2	530.4	532.7	532.7
72.5°	375.6	391.6	391.6	405.2	450.7	439.3	459.9	487.1	487.1	484.8	484.8
75°	318.7	327.8	336.9	357.4	405.2	391.6	405.2	430.3	434.8	430.3	430.3
77.5°	257.3	270.9	275.4	302.8	336.9	334.6	348.3	359.7	368.8	364.2	364.2
80°	182.1	195.8	214.0	243.6	264.1	270.9	277.7	286.9	291.4	291.4	295.9
82.5°	102.4	123.0	138.8	168.5	177.5	211.7	209.4	216.2	209.4	184.3	204.9
85°	22.8	43.2	61.5	77.4	88.8	123.0	129.8	145.7	120.7	111.5	111.5
87.5°	0.0	0.0	0.0	0.0	0.0	18.2	36.4	50.0	43.2	36.4	36.4
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°	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6	11090.6
2.5°	9679.2	9877.3	10116.3	10528.3	10817.4	11129.3	11443.5	11778.0	11866.8	11957.9
5°	7846.7	8236.0	8447.7	9000.9	9581.3	10318.9	10922.2	11582.3	11857.8	11921.5
7.5°	5943.7	6207.8	6763.2	7323.2	8042.5	8816.5	9740.7	10769.6	11090.6	11224.9
10°	4712.1	5071.8	5558.9	6159.9	6790.5	7623.7	8666.3	9868.2	10323.4	10398.5
12.5°	4011.0	4411.6	4942.1	5577.2	6173.6	6801.8	7853.6	9094.2	9581.3	9743.0
15°	3207.4	3692.3	4304.7	4973.9	5622.7	6310.2	7375.5	8775.5	9337.8	9526.7
17.5°	2520.0	2911.5	3573.9	4300.1	5069.5	5939.1	7275.3	8928.1	9620.0	9795.3
20°	1928.1	2208.1	2765.8	3533.0	4434.4	5572.6	7300.4	9504.0	10332.5	10571.6
22.5°	1666.4	1809.7	2148.9	2879.7	3888.1	5253.9	7402.8	10293.8	11293.2	11691.6
25°	1509.3	1584.4	1775.6	2253.6	3366.8	4944.3	7637.3	11356.9	12636.3	12900.4
27.5°	1375.0	1429.6	1547.9	1891.7	2893.3	4657.5	7910.4	12536.1	13890.5	14284.4
30°	1247.5	1320.3	1431.9	1680.0	2590.5	4395.7	8254.2	13492.2	14946.8	15313.3
32.5°	1149.6	1222.4	1324.8	1532.0	2333.3	4120.3	8459.1	14332.2	15809.5	16121.5
35°	1069.9	1131.4	1238.4	1413.6	2137.6	3910.8	8418.2	14999.2	16645.0	16963.7
37.5°	1013.0	1065.4	1172.4	1302.1	1989.6	3692.3	8397.6	15880.2	17662.6	18031.4
40°	960.7	1015.3	1113.1	1229.3	1841.6	3435.1	8409.0	16754.3	18746.1	19114.9
42.5°	919.6	981.1	1060.8	1208.8	1689.1	3227.9	8409.0	17514.6	19688.6	20043.6
45°	885.5	951.5	1029.0	1206.5	1568.5	3070.8	8352.1	18168.0	20439.7	20742.5
47.5°	855.9	928.8	1040.3	1165.5	1538.9	2957.0	8302.0	18691.5	21052.1	21336.7
50°	835.4	921.9	1106.3	1117.7	1547.9	2922.9	8543.3	19351.7	21591.7	21837.5
52.5°	819.5	924.3	1104.1	1047.1	1532.0	2945.7	9046.4	20382.9	22340.6	22358.7
55°	787.6	921.9	1047.1	967.5	1466.0	2984.4	9692.9	21880.7	23512.9	23526.6
57.5°	755.7	896.9	972.0	899.2	1331.7	2984.4	10471.5	23298.9	24926.6	24937.9
60°	723.9	933.3	853.6	840.0	1156.4	2929.7	11293.2	23922.7	25370.4	25486.5
62.5°	692.1	940.2	762.6	787.6	1029.0	2797.7	11905.5	23232.9	24769.5	24935.6
65°	655.6	758.1	703.4	733.0	962.9	2576.9	11712.1	21969.5	23640.3	23838.4
67.5°	612.3	641.9	639.7	676.1	940.2	2251.4	10692.2	20371.5	22424.8	22413.4
70°	560.0	575.9	582.7	621.4	896.9	1998.6	8909.8	18297.6	20801.7	21056.7
72.5°	505.4	519.0	525.9	560.0	853.6	1855.2	6915.7	15440.8	18017.7	18416.0
75°	446.2	455.3	464.4	494.0	808.1	1643.6	4926.2	11787.2	13799.5	14425.5
77.5°	384.7	384.7	396.1	425.7	680.6	1356.7	3305.3	8267.9	9349.1	9988.8
80°	311.8	314.1	309.6	341.4	500.8	928.8	1878.0	5522.5	6221.4	6344.3
82.5°	239.0	232.2	234.5	250.4	373.3	632.9	1001.6	3430.5	3496.5	3428.3
85°	150.2	150.2	145.7	163.9	239.0	330.1	546.3	2101.2	1641.3	1561.6
87.5°	61.5	50.0	56.9	66.0	113.8	134.3	214.0	432.5	166.2	152.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)