

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: P651517

Luminaire Tested: **GALN-SA7D-840-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651517
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-SA7D-840-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA 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: 39060.2 lumens
Efficiency: N/A
Efficacy: 90.2 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

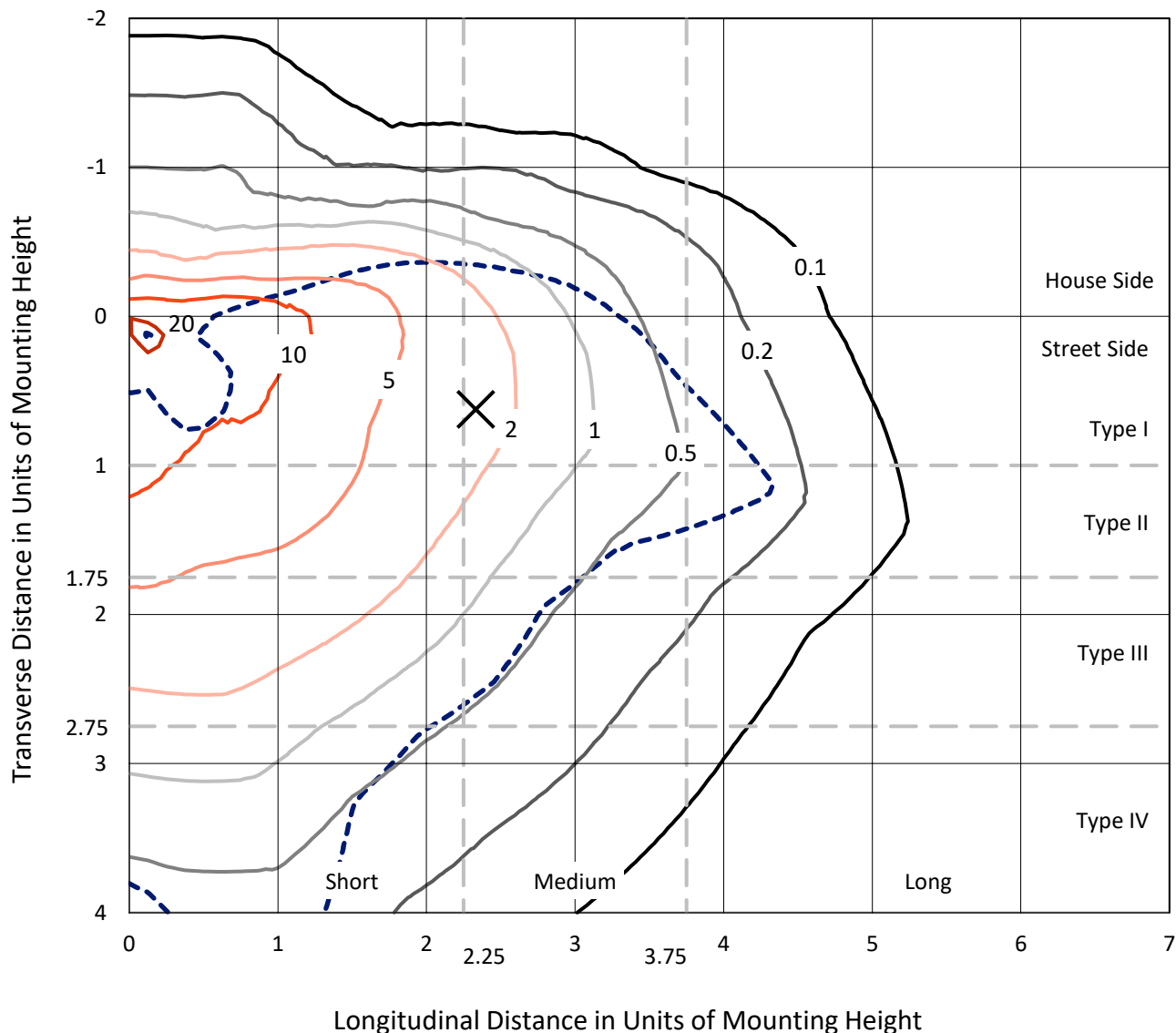
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

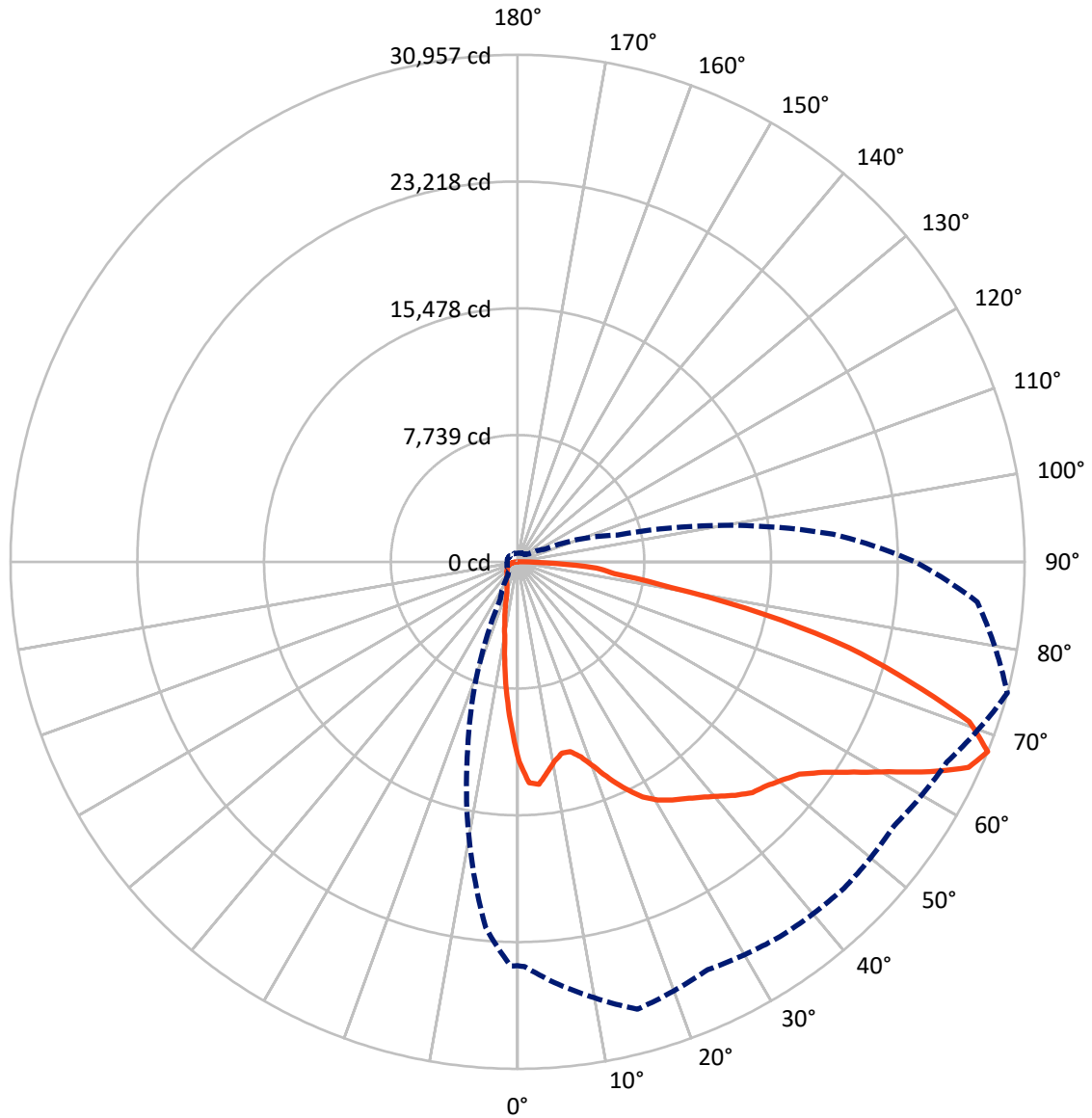
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.1 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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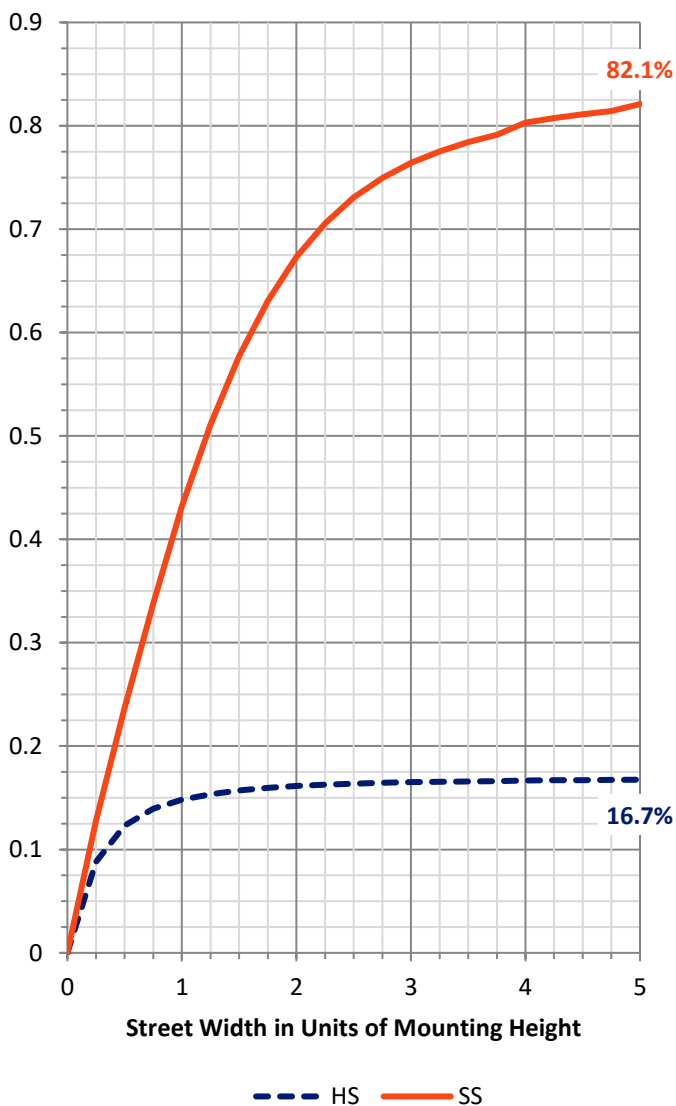
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6602.0	0.0	6602.0
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	32458.2	0.0	32458.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	39060.2	0.0	39060.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	925.6	2.4
10°-20°	1930.3	4.9
20°-30°	2777.8	7.1
30°-40°	4000.8	10.2
40°-50°	5620.0	14.4
50°-60°	7838.0	20.1
60°-70°	9318.8	23.9
70°-80°	5488.3	14.1
80°-90°	1160.6	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°	39060.2	100.0
0°-180°	39060.2	100.0

Coefficient of Utilization

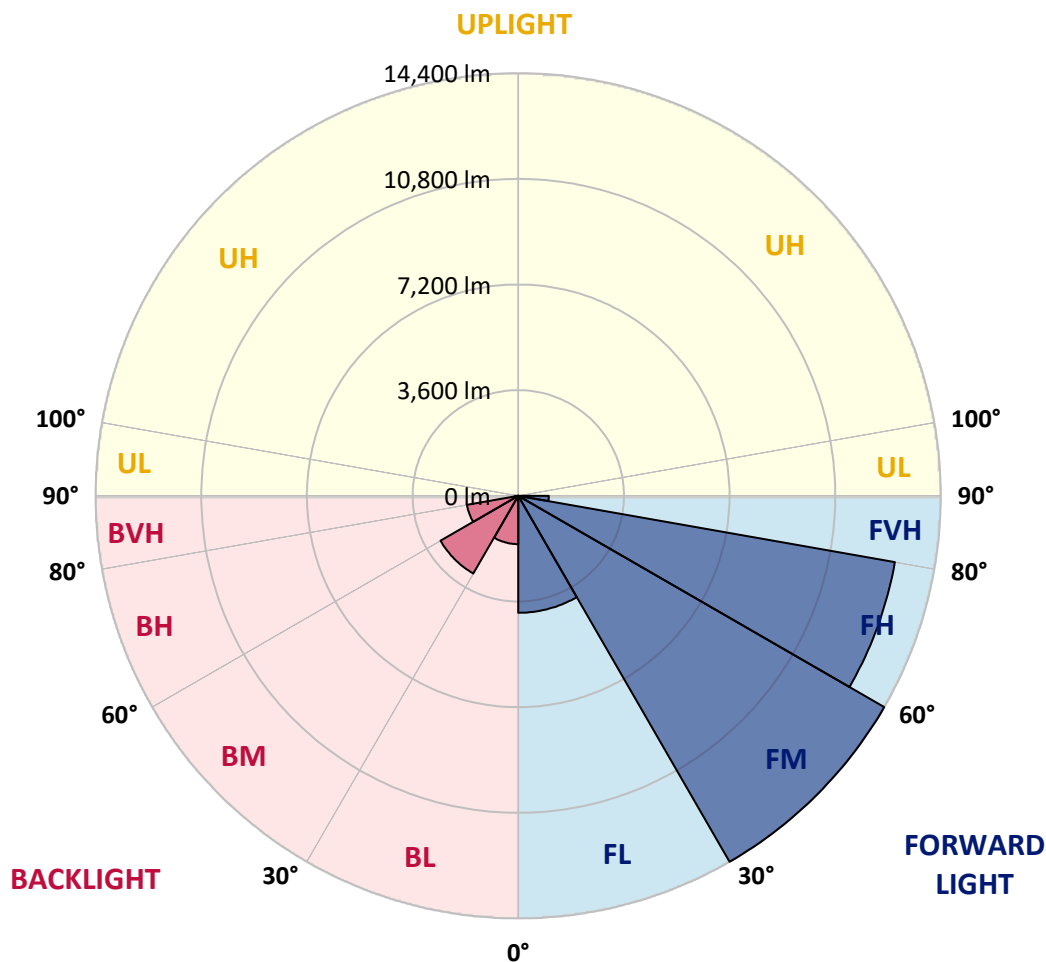


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3987.0	10.2			
FM (30°-60°)	14400.1	36.9			
FH (60°-80°)	13030.7	33.4			G5
FVH (80°-90°)	1040.5	2.7			G5
BL (0°-30°)	1646.8	4.2	B3/2500		
BM (30°-60°)	3058.7	7.8	B3/5000		
BH (60°-80°)	1776.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	120.0	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°	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3
2.5°	13157.7	13175.2	13287.9	13616.0	13841.5	13924.1	13981.7	13874.1	13768.9	13513.4	13127.6
5°	13117.6	13220.3	13513.4	14249.7	14830.9	15081.3	15156.5	14833.4	14299.9	13643.6	12854.6
7.5°	12351.1	12488.8	12939.8	14174.6	15199.1	15785.2	15707.5	15124.0	14162.1	12992.4	11890.2
10°	11441.9	11594.7	12138.2	13631.1	14951.1	15757.6	15757.6	15046.2	13768.9	12378.7	11108.8
12.5°	10720.5	10880.8	11502.0	13072.5	14435.1	15199.1	15326.8	14715.6	13485.8	11990.5	10595.3
15°	10482.6	10637.8	11306.7	12734.3	13889.0	14354.9	14397.6	14197.2	13348.0	12018.0	10572.7
17.5°	10778.1	10978.5	11654.8	12834.6	13388.1	13415.6	13448.3	13606.0	13363.1	12521.5	11028.6
20°	11632.3	11847.7	12554.0	13157.7	12949.8	12664.2	12681.8	13087.6	13540.9	13353.1	12118.2
22.5°	12864.6	13052.5	13776.3	13726.3	12764.4	12175.8	12053.0	12619.1	13803.9	14390.0	13277.9
25°	14194.7	14415.1	15246.7	14570.4	12817.0	11885.3	11807.6	12343.6	14076.9	15359.4	14617.9
27.5°	15717.5	15933.0	16589.2	15422.0	13092.5	11862.7	11770.0	12318.5	14322.4	16256.1	15897.9
30°	16849.8	17047.6	17493.5	16138.4	13430.7	12013.0	11897.8	12516.4	14532.8	16869.8	17145.3
32.5°	17739.0	17944.3	18187.3	16584.2	13876.6	12286.0	12073.1	12877.1	14808.3	17338.1	18069.6
35°	18665.7	18908.7	18891.1	16980.0	14292.4	12601.6	12393.7	13398.1	15241.7	17746.4	19241.8
37.5°	19840.5	19938.2	19812.9	17335.7	14790.8	13170.2	13055.0	14172.1	15857.8	18239.9	20611.9
40°	21032.7	21228.1	20584.4	17766.5	15396.9	14239.7	14227.2	15316.8	16589.2	18818.5	21939.5
42.5°	22054.7	22220.0	21305.7	18142.2	16130.9	15544.7	15639.9	16852.2	17548.6	19489.8	23006.5
45°	22823.6	22971.4	21972.1	18505.4	17097.7	17052.6	17613.7	18497.9	18758.4	20093.4	23632.7
47.5°	23477.4	23620.2	22435.4	19056.5	18292.5	18853.5	19830.4	20213.7	19792.9	20439.1	24334.1
50°	24028.5	24071.0	22753.5	19712.7	19775.4	21060.3	22007.1	22255.0	20814.8	20935.0	24942.7
52.5°	24602.0	24546.9	23302.1	20539.3	21378.4	23154.3	23843.1	24101.1	21794.2	21546.3	25829.4
55°	25887.0	25939.6	24532.0	21581.3	22999.0	25210.7	26117.4	25869.5	22878.7	22670.8	26956.6
57.5°	27440.0	27394.9	26262.7	23211.9	24649.6	27124.4	27800.7	27402.4	24326.5	24216.3	28098.7
60°	28043.6	28103.8	27710.5	24965.3	26277.8	28800.1	29491.4	28872.7	26062.3	26012.3	28960.4
62.5°	27437.5	27775.6	28041.1	26525.7	27665.5	30032.4	30718.8	30012.4	27873.3	28236.5	29564.1
65°	26230.2	26302.8	27207.0	27848.3	28334.2	30235.4	30593.6	30217.8	29386.2	30262.9	29536.5
67.5°	24662.2	24724.8	25784.3	28281.6	27472.5	27931.0	28181.4	28071.2	28917.8	30956.7	28176.4
70°	23169.3	23119.3	24238.9	27177.0	23915.8	23219.4	23427.3	23081.7	24952.7	29261.0	25508.8
72.5°	20263.7	20444.1	21646.4	24106.1	18936.2	17804.1	18257.4	17363.2	19191.7	25060.5	20704.6
75°	15872.9	15915.4	17921.8	20231.2	14284.8	12498.9	13112.6	12739.4	14700.6	20905.0	14297.3
77.5°	10991.0	10895.8	13052.5	15452.0	10186.9	9150.0	9160.0	8982.2	10264.7	15392.0	9713.6
80°	6980.9	6835.6	8170.7	9545.8	7000.9	7489.4	7243.9	7236.4	6682.8	9495.6	5873.7
82.5°	3772.2	3932.5	5162.4	5984.0	5022.1	5788.6	5305.1	5149.9	4586.3	5943.9	3757.2
85°	1718.2	1868.5	2752.8	4070.3	3814.8	3857.4	2577.4	3040.8	3794.8	4826.8	2006.4
87.5°	167.8	215.4	568.6	1921.2	1302.5	1026.9	383.2	738.9	954.4	1715.8	160.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3
2.5°	12969.8	12839.5	12396.2	12030.5	11642.3	11346.7	10961.0	10703.0	10525.1	10257.1	10224.5
5°	12373.6	12055.6	11284.1	10497.6	9818.8	9307.8	8789.3	8313.4	8032.9	7945.2	7832.5
7.5°	11369.2	10833.3	9841.3	8939.6	8160.6	7399.1	6813.0	6397.2	6119.2	5956.4	5761.0
10°	10542.7	9921.4	8714.2	7609.5	6968.4	6495.0	5978.9	5533.1	5189.9	4896.9	4736.6
12.5°	9986.6	9285.2	7927.7	7030.9	6535.0	6031.6	5427.9	4926.9	4421.0	4087.8	3945.0
15°	9818.8	9077.3	7684.7	6742.9	6031.6	5372.8	4696.5	4042.8	3541.8	3226.2	3121.0
17.5°	10229.6	9332.8	7682.2	6359.6	5440.4	4653.9	3787.3	3173.6	2660.1	2424.6	2349.5
20°	10996.1	9823.8	7704.7	5981.4	4799.2	3692.1	2755.3	2251.8	2006.4	1906.1	1868.5
22.5°	12065.6	10572.7	7772.4	5608.2	4097.9	2835.4	2064.0	1808.5	1720.8	1703.3	1695.7
25°	13383.1	11499.5	8000.3	5272.6	3506.7	2164.1	1725.8	1610.6	1560.5	1543.0	1540.5
27.5°	14595.4	12696.8	8275.9	4984.5	2935.6	1866.1	1560.5	1462.8	1412.7	1410.2	1415.2
30°	15690.0	13698.7	8506.3	4661.4	2502.3	1658.2	1452.7	1355.1	1307.5	1305.0	1320.0
32.5°	16636.8	14522.8	8676.6	4343.3	2261.8	1530.5	1355.1	1249.9	1209.8	1202.3	1209.8
35°	17648.7	15344.4	8599.0	4095.3	2124.0	1425.2	1282.4	1179.8	1132.2	1109.6	1109.6
37.5°	18803.5	16190.9	8466.2	3890.0	2061.5	1337.5	1219.9	1119.6	1072.0	1049.5	1047.0
40°	20063.4	17037.6	8283.3	3707.1	1998.8	1285.0	1177.2	1072.0	1014.4	991.9	986.9
42.5°	21175.5	17761.5	8133.1	3586.9	1896.1	1295.0	1139.6	1037.0	964.4	934.3	931.7
45°	22142.4	18490.4	8105.5	3516.7	1810.9	1279.9	1129.6	1009.5	924.3	891.7	886.7
47.5°	22898.8	19249.3	8263.3	3476.6	1718.2	1199.8	1194.8	991.9	889.2	854.1	849.2
50°	23820.6	20326.4	8624.0	3394.0	1633.1	1124.7	1262.4	989.4	861.7	816.5	804.1
52.5°	25047.9	21729.1	9112.4	3246.2	1510.4	1054.5	1204.8	989.4	829.1	784.0	769.0
55°	26903.9	23517.5	9590.8	3038.3	1337.5	961.9	1087.1	959.3	781.5	741.4	731.4
57.5°	28133.8	24825.0	9896.5	2750.2	1122.1	894.2	936.8	911.7	733.9	691.3	691.3
60°	28196.5	25175.7	9751.1	2387.1	986.9	831.6	814.1	919.3	691.3	646.2	641.3
62.5°	27475.0	24316.5	8994.7	2061.5	914.3	764.0	736.4	806.5	648.7	603.7	596.1
65°	26347.9	22124.9	7682.2	1906.1	874.1	703.8	663.8	661.3	603.7	561.1	551.0
67.5°	24276.5	19334.5	6312.0	1816.0	854.1	636.2	598.6	586.1	551.0	516.0	511.0
70°	21223.1	16193.5	5062.1	1778.4	844.1	566.1	536.1	521.0	491.0	463.4	460.9
72.5°	16511.6	13135.2	4178.0	1753.3	839.1	501.0	468.4	448.3	430.8	405.8	405.8
75°	11860.2	9663.5	3188.6	1580.5	776.5	430.8	395.8	383.2	358.2	338.2	343.1
77.5°	7476.8	6507.5	2099.1	1162.3	601.1	345.7	315.6	308.1	288.0	260.5	278.0
80°	5049.7	4576.2	1224.8	731.4	378.2	253.0	243.0	240.4	217.9	187.9	190.4
82.5°	3436.6	3371.5	636.2	415.8	217.9	147.8	142.8	147.8	122.7	100.2	100.2
85°	1342.6	1833.5	300.6	162.8	70.1	22.5	32.5	35.1	20.0	10.0	12.5
87.5°	25.1	187.9	7.5	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°	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3
2.5°	10174.5	10151.9	10189.5	10029.2	10061.7	10121.9	10151.9	10169.5	10417.5	10359.9	10517.6
5°	7937.7	7915.2	8060.4	8080.5	8155.6	8140.5	8213.2	8230.8	8320.9	8353.5	8573.9
7.5°	5773.5	5871.3	6036.5	6121.7	6249.5	6289.5	6252.0	6344.7	6156.8	6292.0	6332.1
10°	4638.9	4521.1	4451.0	4646.4	4671.4	4856.8	4781.7	4721.5	4831.7	4836.8	4942.0
12.5°	3862.4	3609.4	3441.6	3496.7	3556.8	3637.0	3649.5	3769.7	3849.8	3925.0	3987.6
15°	3028.3	2940.6	2787.8	2712.7	2797.8	2830.4	2908.1	3008.3	3093.5	3116.0	3201.1
17.5°	2324.4	2339.5	2314.4	2269.4	2321.9	2347.0	2352.0	2354.5	2377.1	2362.0	2487.3
20°	1871.1	1923.7	1986.3	1996.3	2013.9	2026.4	2003.9	1918.7	1921.2	1973.7	2013.9
22.5°	1693.3	1703.3	1773.4	1796.0	1851.0	1828.5	1763.4	1723.3	1718.2	1730.8	1750.9
25°	1553.0	1568.0	1618.1	1653.2	1695.7	1655.7	1608.1	1570.5	1565.5	1578.1	1598.1
27.5°	1427.8	1450.3	1495.4	1530.5	1570.5	1532.9	1487.8	1455.3	1452.7	1450.3	1462.8
30°	1327.5	1352.6	1385.1	1425.2	1452.7	1420.2	1377.6	1360.1	1357.6	1352.6	1357.6
32.5°	1227.4	1267.4	1300.0	1320.0	1347.6	1322.6	1289.9	1279.9	1262.4	1247.4	1239.9
35°	1114.7	1157.2	1207.3	1232.3	1259.9	1234.8	1212.3	1169.7	1139.6	1137.2	1142.2
37.5°	1049.5	1067.1	1107.1	1149.7	1177.2	1164.7	1122.1	1079.6	1072.0	1072.0	1077.1
40°	991.9	999.4	1016.9	1072.0	1122.1	1084.6	1032.0	1019.5	1019.5	1016.9	1019.5
42.5°	934.3	941.8	941.8	984.4	1064.5	1004.4	964.4	964.4	964.4	966.8	974.4
45°	881.7	884.2	881.7	911.7	986.9	936.8	909.2	916.8	921.7	926.8	931.7
47.5°	836.6	839.1	836.6	861.7	899.2	879.2	864.1	874.1	884.2	891.7	896.7
50°	796.5	794.0	799.0	814.1	831.6	836.6	826.6	841.6	846.6	856.6	869.2
52.5°	761.4	758.9	764.0	771.4	796.5	796.5	796.5	809.0	819.0	829.1	846.6
55°	721.4	723.8	731.4	741.4	774.0	769.0	771.4	781.5	791.5	806.5	816.5
57.5°	683.8	688.8	698.9	713.8	746.4	743.9	746.4	751.4	764.0	771.4	781.5
60°	641.3	651.3	663.8	673.8	706.4	703.8	716.4	726.4	733.9	733.9	738.9
62.5°	598.6	613.7	626.2	633.7	668.8	671.3	688.8	696.3	701.3	696.3	703.8
65°	556.1	578.6	583.7	593.7	628.7	631.2	651.3	668.8	663.8	658.8	671.3
67.5°	513.5	541.0	538.5	551.0	586.1	591.1	608.6	638.7	628.7	623.7	633.7
70°	465.9	485.9	488.5	495.9	543.5	536.1	563.6	591.1	583.7	586.1	586.1
72.5°	413.3	430.8	430.8	445.8	495.9	483.4	505.9	536.1	536.1	533.5	533.5
75°	350.7	360.7	370.7	393.3	445.8	430.8	445.8	473.4	478.4	473.4	473.4
77.5°	283.1	298.1	303.1	333.1	370.7	368.2	383.2	395.8	405.8	400.7	400.7
80°	200.4	215.4	235.5	268.0	290.6	298.1	305.6	315.6	320.6	320.6	325.6
82.5°	112.7	135.2	152.8	185.4	195.4	233.0	230.4	237.9	230.4	202.8	225.5
85°	25.1	47.6	67.6	85.2	97.7	135.2	142.8	160.3	132.8	122.7	122.7
87.5°	0.0	0.0	0.0	0.0	0.0	20.0	40.1	55.1	47.6	40.1	40.1
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°	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3	12203.3
2.5°	10650.3	10868.3	11131.3	11584.7	11902.8	12245.9	12591.6	12959.8	13057.5	13157.7
5°	8634.0	9062.4	9295.3	9904.0	10542.7	11354.3	12018.0	12744.3	13047.4	13117.6
7.5°	6540.0	6830.6	7441.8	8057.9	8849.4	9701.0	10718.0	11850.2	12203.3	12351.1
10°	5184.9	5580.7	6116.7	6778.0	7471.8	8388.6	9535.8	10858.2	11359.2	11441.9
12.5°	4413.5	4854.3	5437.9	6136.8	6793.0	7484.3	8641.5	10006.6	10542.7	10720.5
15°	3529.3	4062.8	4736.6	5473.0	6186.8	6943.3	8115.6	9655.9	10274.7	10482.6
17.5°	2772.8	3203.6	3932.5	4731.6	5578.2	6535.0	8005.3	9823.8	10585.2	10778.1
20°	2121.6	2429.6	3043.3	3887.4	4879.3	6131.7	8032.9	10457.5	11369.2	11632.3
22.5°	1833.5	1991.3	2364.6	3168.6	4278.2	5781.0	8145.6	11326.7	12426.3	12864.6
25°	1660.6	1743.3	1953.7	2479.8	3704.6	5440.4	8403.6	12496.4	13904.1	14194.7
27.5°	1512.9	1573.0	1703.3	2081.5	3183.6	5124.8	8704.2	13793.9	15284.2	15717.5
30°	1372.6	1452.7	1575.5	1848.5	2850.5	4836.8	9082.4	14845.9	16446.4	16849.8
32.5°	1264.9	1345.1	1457.8	1685.7	2567.4	4533.7	9307.8	15770.2	17395.7	17739.0
35°	1177.2	1244.8	1362.6	1555.5	2352.0	4303.2	9262.7	16504.0	18315.0	18665.7
37.5°	1114.7	1172.3	1289.9	1432.7	2189.2	4062.8	9240.2	17473.5	19434.7	19840.5
40°	1057.1	1117.1	1224.8	1352.6	2026.4	3779.7	9252.7	18435.2	20627.0	21032.7
42.5°	1012.0	1079.6	1167.2	1330.0	1858.5	3551.8	9252.7	19271.9	21663.9	22054.7
45°	974.4	1047.0	1132.2	1327.5	1725.8	3379.0	9190.1	19990.7	22490.5	22823.6
47.5°	941.8	1022.0	1144.7	1282.4	1693.3	3253.7	9134.9	20566.8	23164.3	23477.4
50°	919.3	1014.4	1217.3	1229.9	1703.3	3216.2	9400.4	21293.2	23757.9	24028.5
52.5°	901.7	1016.9	1214.8	1152.2	1685.7	3241.2	9954.1	22427.9	24582.0	24602.0
55°	866.7	1014.4	1152.2	1064.5	1613.1	3283.8	10665.4	24076.1	25872.0	25887.0
57.5°	831.6	986.9	1069.6	989.4	1465.3	3283.8	11522.0	25636.5	27427.4	27440.0
60°	796.5	1026.9	939.3	924.3	1272.4	3223.6	12426.3	26322.9	27915.9	28043.6
62.5°	761.4	1034.5	839.1	866.7	1132.2	3078.4	13100.1	25563.9	27254.6	27437.5
65°	721.4	834.1	774.0	806.5	1059.5	2835.4	12887.1	24173.7	26012.3	26230.2
67.5°	673.8	706.4	703.8	743.9	1034.5	2477.2	11765.0	22415.3	24674.7	24662.2
70°	616.2	633.7	641.3	683.8	986.9	2199.2	9803.8	20133.5	22888.8	23169.3
72.5°	556.1	571.1	578.6	616.2	939.3	2041.4	7609.5	16990.0	19825.4	20263.7
75°	491.0	501.0	511.0	543.5	889.2	1808.5	5420.3	12969.8	15184.1	15872.9
77.5°	423.3	423.3	435.8	468.4	748.9	1492.9	3637.0	9097.4	10287.2	10991.0
80°	343.1	345.7	340.7	375.8	551.0	1022.0	2066.4	6076.6	6845.6	6980.9
82.5°	263.0	255.5	258.0	275.5	410.7	696.3	1102.1	3774.7	3847.3	3772.2
85°	165.3	165.3	160.3	180.3	263.0	363.2	601.1	2311.9	1806.0	1718.2
87.5°	67.6	55.1	62.7	72.7	125.2	147.8	235.5	475.9	182.8	167.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)