

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: P651077

Luminaire Tested: **GALN-SA8C-840-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651077
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-SA8C-840-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 41154.3 lumens
Efficiency: N/A
Efficacy: 95.9 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

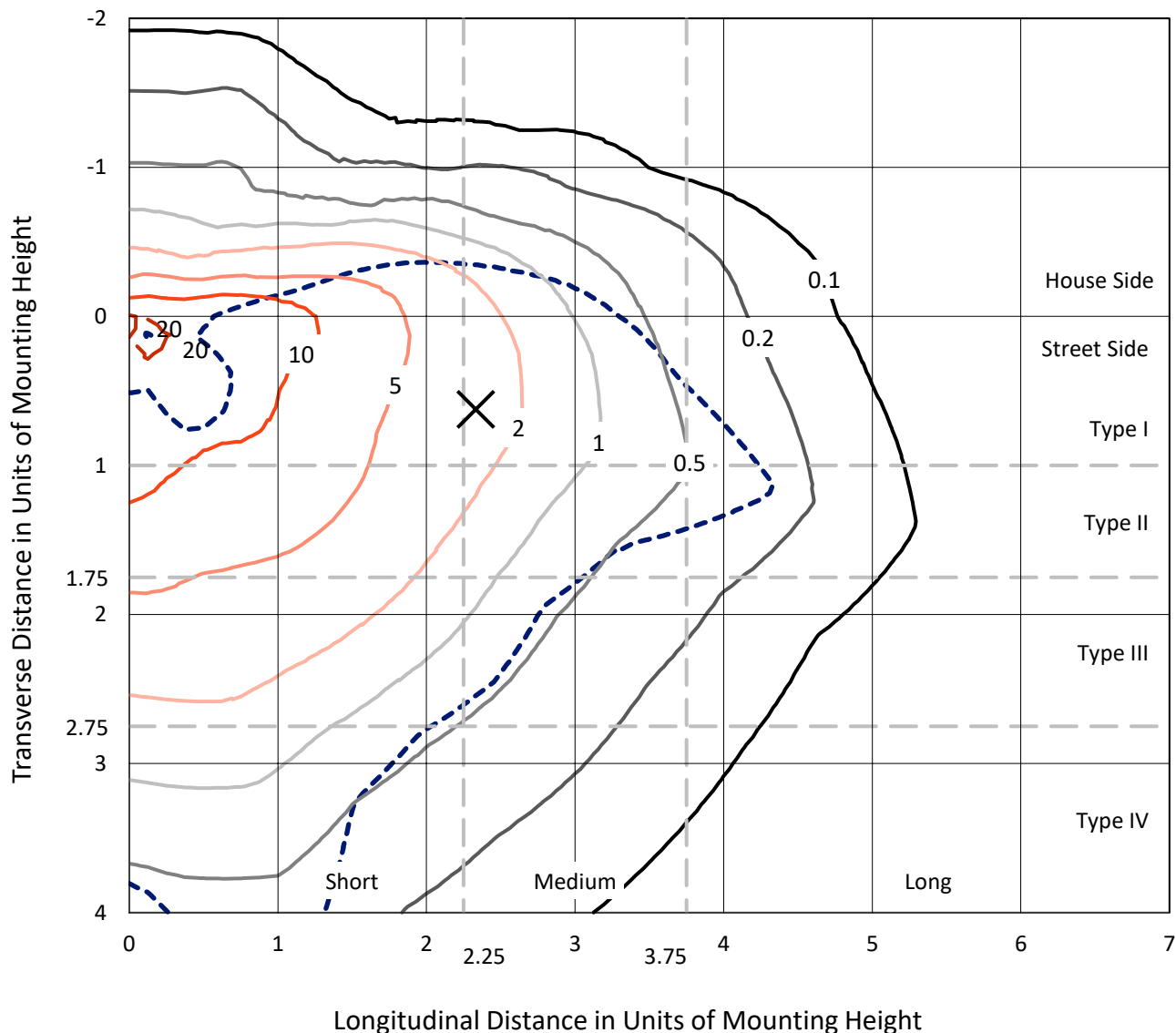
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

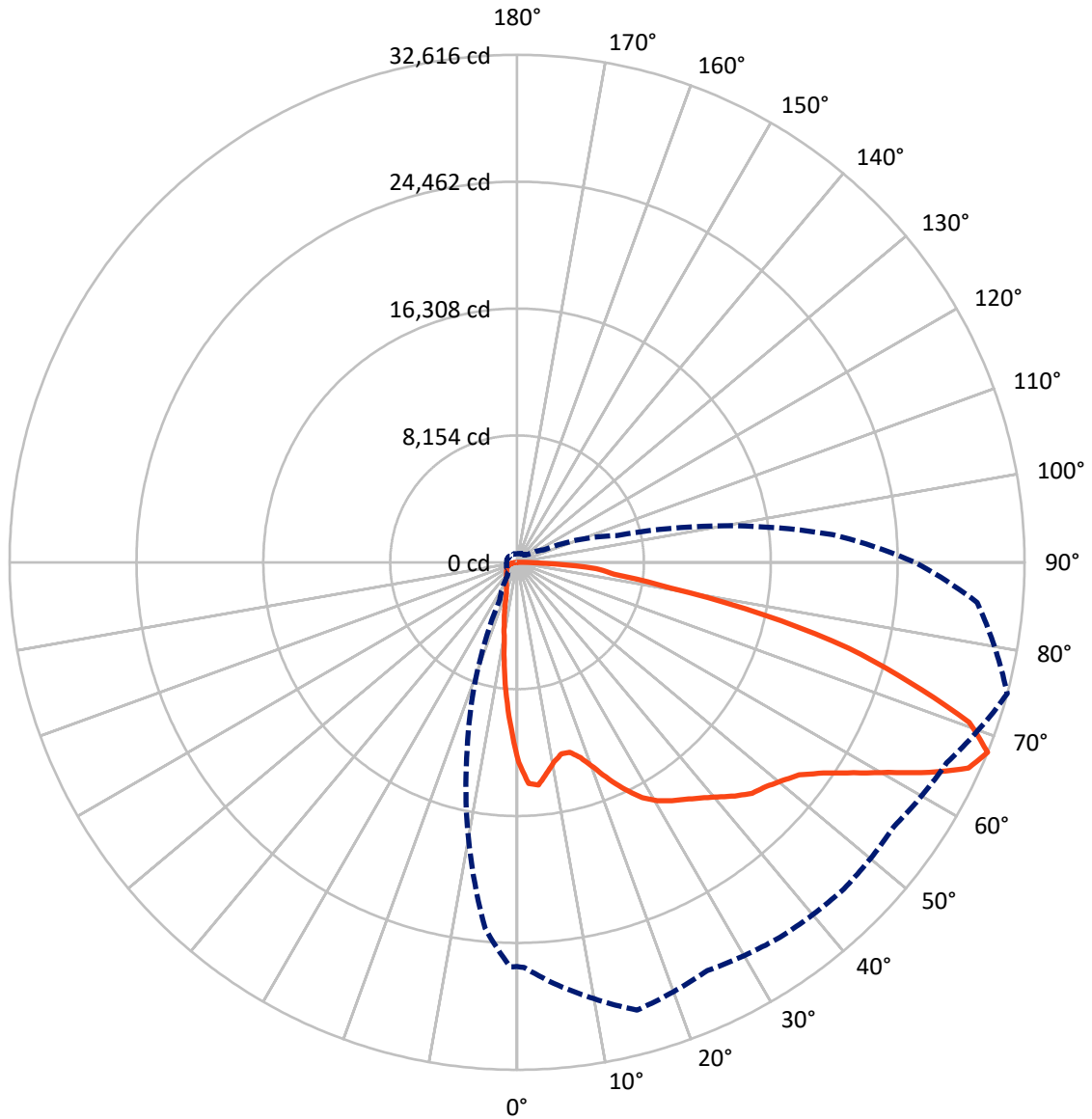
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.4 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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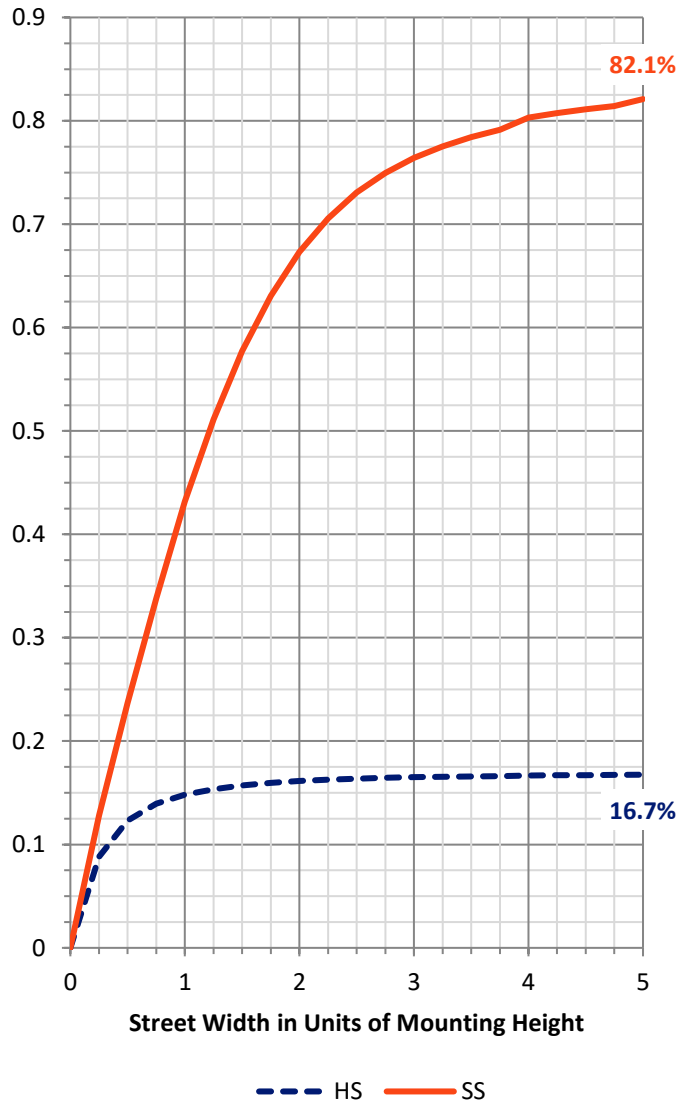
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6956.0	0.0	6956.0
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	34198.4	0.0	34198.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	41154.3	0.0	41154.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	975.2	2.4
10°-20°	2033.8	4.9
20°-30°	2926.7	7.1
30°-40°	4215.3	10.2
40°-50°	5921.3	14.4
50°-60°	8258.2	20.1
60°-70°	9818.4	23.9
70°-80°	5782.5	14.1
80°-90°	1222.8	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°	41154.3	100.0
0°-180°	41154.3	100.0

Coefficient of Utilization

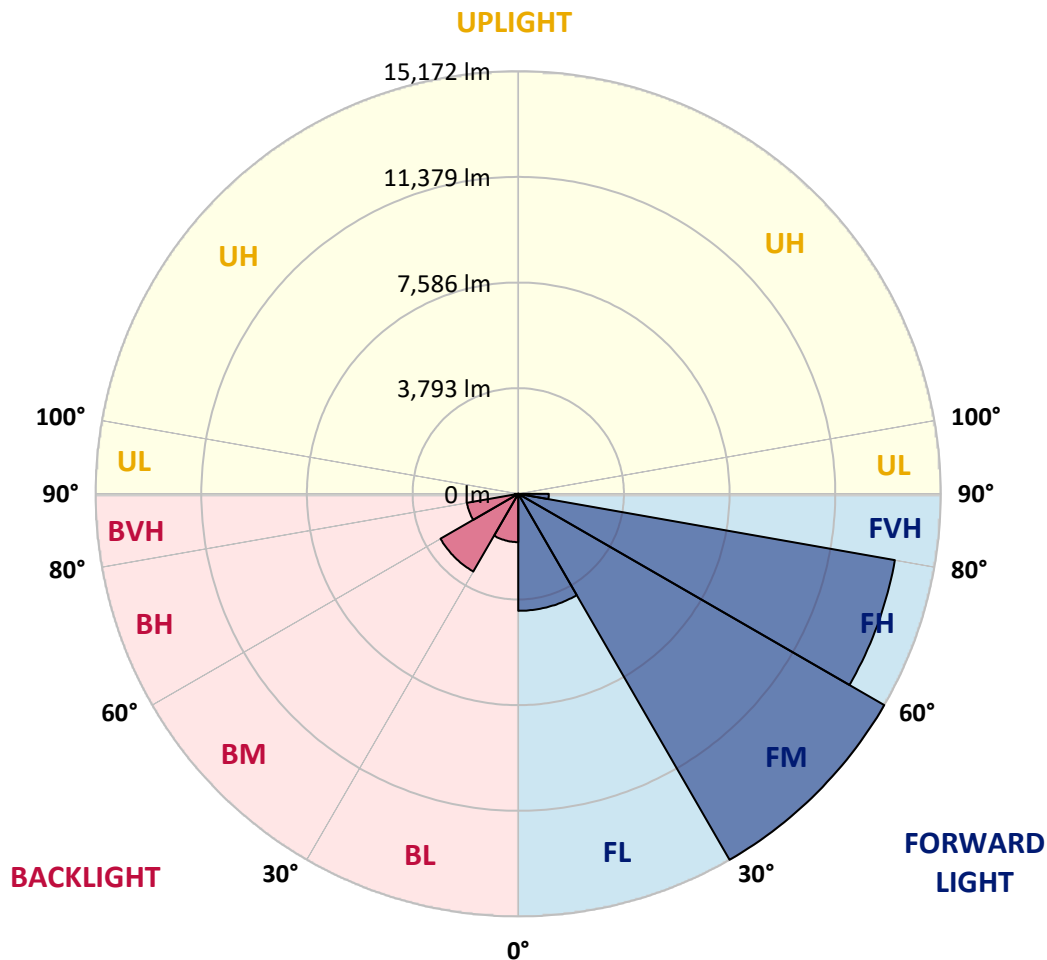


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4200.7	10.2			
FM (30°-60°)	15172.1	36.9			
FH (60°-80°)	13729.2	33.4			G5
FVH (80°-90°)	1096.3	2.7			G5
BL (0°-30°)	1735.0	4.2	B3/2500		
BM (30°-60°)	3222.7	7.8	B3/5000		
BH (60°-80°)	1871.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	126.5	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°	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6
2.5°	13863.0	13881.5	14000.3	14346.0	14583.5	14670.7	14731.3	14617.8	14507.0	14237.8	13831.4
5°	13820.8	13929.1	14237.8	15013.7	15625.9	15889.9	15969.1	15628.6	15066.5	14375.0	13543.7
7.5°	13013.3	13158.5	13633.5	14934.6	16013.9	16631.4	16549.6	15934.8	14921.4	13688.9	12527.7
10°	12055.3	12216.3	12789.0	14361.8	15752.7	16602.4	16602.4	15852.9	14507.0	13042.3	11704.3
12.5°	11295.2	11464.2	12118.6	13773.3	15209.0	16013.9	16148.5	15504.6	14208.8	12633.2	11163.3
15°	11044.5	11208.2	11912.8	13417.1	14633.7	15124.5	15169.5	14958.3	14063.6	12662.3	11139.5
17.5°	11355.9	11567.1	12279.6	13522.6	14105.8	14134.9	14169.2	14335.4	14079.5	13192.8	11619.8
20°	12255.9	12482.9	13227.1	13863.0	13644.0	13343.1	13361.6	13789.2	14266.9	14068.9	12767.9
22.5°	13554.3	13752.2	14514.9	14462.2	13448.8	12828.5	12699.3	13295.7	14543.9	15161.5	13989.8
25°	14955.7	15187.9	16064.1	15351.5	13504.2	12522.4	12440.6	13005.4	14831.6	16182.9	15401.7
27.5°	16560.2	16787.2	17478.6	16248.8	13794.5	12498.7	12401.0	12979.0	15090.2	17127.6	16750.2
30°	17753.1	17961.6	18431.4	17003.6	14150.8	12657.0	12535.6	13187.5	15311.9	17774.2	18064.5
32.5°	18690.0	18906.4	19162.4	17473.4	14620.5	12944.7	12720.4	13567.5	15602.2	18267.7	19038.3
35°	19666.4	19922.4	19903.9	17890.3	15058.6	13277.2	13058.1	14116.4	16058.8	18697.9	20273.4
37.5°	20904.1	21007.1	20875.1	18265.1	15583.7	13876.2	13754.9	14931.9	16708.0	19217.8	21717.0
40°	22160.4	22366.2	21688.0	18719.0	16222.4	15003.2	14990.0	16137.9	17478.6	19827.4	23115.7
42.5°	23237.1	23411.3	22448.0	19114.8	16995.7	16378.1	16478.4	17755.7	18489.4	20534.7	24239.9
45°	24047.3	24203.0	23150.0	19497.5	18014.4	17966.9	18558.0	19489.6	19764.1	21170.7	24899.7
47.5°	24736.1	24886.5	23638.2	20078.1	19273.2	19864.3	20893.6	21297.4	20854.0	21534.9	25638.6
50°	25316.7	25361.5	23973.4	20769.5	20835.5	22189.4	23187.0	23448.2	21930.8	22057.4	26279.9
52.5°	25921.0	25862.9	24551.3	21640.4	22524.5	24395.6	25121.3	25393.2	22962.6	22701.4	27214.2
55°	27274.9	27330.3	25847.1	22738.3	24232.0	26562.3	27517.7	27256.4	24105.3	23886.3	28401.7
57.5°	28911.1	28863.6	27670.8	24456.4	25971.2	28578.6	29291.1	28871.5	25630.7	25514.6	29605.2
60°	29547.1	29610.4	29196.2	26303.7	27686.6	30344.1	31072.5	30420.7	27459.6	27406.8	30513.0
62.5°	28908.4	29264.7	29544.5	27947.9	29148.6	31642.5	32365.6	31621.4	29367.6	29750.3	31149.0
65°	27636.4	27713.0	28665.7	29341.2	29853.2	31856.3	32233.7	31837.8	30961.7	31885.3	31120.0
67.5°	25984.4	26050.3	27166.7	29797.8	28945.4	29428.4	29692.3	29576.1	30468.2	32616.3	29687.0
70°	24411.5	24358.7	25538.4	28634.0	25198.0	24464.3	24683.3	24319.1	26290.5	30829.7	26876.3
72.5°	21350.1	21540.2	22806.9	25398.5	19951.5	18758.6	19236.3	18294.1	20220.6	26404.0	21814.6
75°	16723.9	16768.7	18882.6	21315.8	15050.6	13169.0	13815.6	13422.4	15488.8	22025.7	15063.8
77.5°	11580.2	11480.0	13752.2	16280.5	10733.1	9640.6	9651.1	9463.8	10814.9	16217.2	10234.4
80°	7355.1	7202.1	8608.6	10057.5	7376.2	7890.9	7632.2	7624.3	7041.0	10004.7	6188.7
82.5°	3974.5	4143.4	5439.2	6304.7	5291.3	6098.9	5589.5	5426.0	4832.1	6262.5	3958.6
85°	1810.4	1968.8	2900.4	4288.5	4019.3	4064.2	2715.6	3203.9	3998.2	5085.5	2113.9
87.5°	176.8	227.0	599.0	2024.2	1372.3	1082.0	403.8	778.5	1005.5	1807.7	168.9
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°	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6
2.5°	13665.2	13527.9	13060.8	12675.5	12266.4	11955.0	11548.6	11276.8	11089.4	10807.0	10772.7
5°	13037.0	12701.9	11889.0	11060.4	10345.2	9806.8	9260.5	8759.1	8463.5	8371.1	8252.4
7.5°	11978.8	11414.1	10368.9	9418.9	8598.1	7795.8	7178.3	6740.2	6447.3	6275.7	6069.9
10°	11107.8	10453.4	9181.4	8017.5	7341.9	6843.1	6299.5	5829.7	5468.2	5159.4	4990.5
12.5°	10522.0	9783.1	8352.6	7407.9	6885.4	6354.9	5718.9	5191.1	4658.0	4307.0	4156.6
15°	10345.2	9564.0	8096.7	7104.4	6354.9	5660.9	4948.3	4259.5	3731.7	3399.2	3288.3
17.5°	10778.0	9833.2	8094.0	6700.6	5732.1	4903.4	3990.3	3343.7	2802.7	2554.6	2475.5
20°	11585.5	10350.4	8117.8	6302.1	5056.5	3890.0	2903.0	2372.5	2113.9	2008.3	1968.8
22.5°	12712.5	11139.5	8189.1	5908.9	4317.5	2987.4	2174.6	1905.5	1813.0	1794.6	1786.6
25°	14100.6	12116.0	8429.2	5555.2	3694.7	2280.2	1818.3	1696.9	1644.2	1625.7	1623.0
27.5°	15377.9	13377.5	8719.5	5251.8	3093.0	1966.1	1644.2	1541.2	1488.4	1485.8	1491.1
30°	16531.2	14433.2	8962.3	4911.4	2636.5	1747.1	1530.7	1427.8	1377.6	1375.0	1390.8
32.5°	17528.8	15301.4	9141.8	4576.1	2383.1	1612.4	1427.8	1316.9	1274.7	1266.8	1274.7
35°	18594.9	16167.0	9059.9	4314.9	2237.9	1501.6	1351.2	1243.0	1192.9	1169.1	1169.1
37.5°	19811.5	17059.0	8920.1	4098.5	2172.0	1409.3	1285.2	1179.7	1129.5	1105.7	1103.1
40°	21139.0	17951.0	8727.4	3905.9	2105.9	1353.8	1240.4	1129.5	1068.8	1045.1	1039.8
42.5°	22310.8	18713.7	8569.1	3779.2	1997.8	1364.4	1200.8	1092.5	1016.0	984.4	981.7
45°	23329.4	19481.7	8540.0	3705.3	1908.1	1348.5	1190.2	1063.5	973.8	939.5	934.3
47.5°	24126.4	20281.3	8706.3	3663.1	1810.4	1264.1	1258.8	1045.1	936.9	900.0	894.7
50°	25097.6	21416.1	9086.3	3575.9	1720.7	1185.0	1330.1	1042.4	907.9	860.3	847.1
52.5°	26390.7	22894.0	9600.9	3420.3	1591.3	1111.0	1269.4	1042.4	873.5	826.0	810.2
55°	28346.3	24778.3	10105.0	3201.2	1409.3	1013.4	1145.4	1010.8	823.4	781.2	770.6
57.5°	29642.1	26155.9	10427.0	2897.7	1182.3	942.2	987.0	960.6	773.2	728.4	728.4
60°	29708.1	26525.4	10273.9	2515.0	1039.8	876.2	857.7	968.6	728.4	680.9	675.6
62.5°	28948.1	25620.1	9476.9	2172.0	963.3	804.9	775.9	849.7	683.5	636.0	628.1
65°	27760.5	23311.0	8094.0	2008.3	921.1	741.6	699.4	696.7	636.0	591.1	580.6
67.5°	25577.9	20371.0	6650.5	1913.4	900.0	670.4	630.8	617.5	580.6	543.6	538.4
70°	22360.9	17061.6	5333.5	1873.7	889.4	596.4	564.7	548.9	517.3	488.2	485.6
72.5°	17396.8	13839.3	4402.0	1847.3	884.1	527.8	493.5	472.4	453.9	427.6	427.6
75°	12496.0	10181.6	3359.5	1665.3	818.1	453.9	417.0	403.8	377.4	356.2	361.5
77.5°	7877.6	6856.3	2211.6	1224.5	633.4	364.2	332.5	324.6	303.5	274.5	292.9
80°	5320.4	4821.6	1290.5	770.6	398.5	266.5	256.0	253.4	229.6	198.0	200.6
82.5°	3620.8	3552.2	670.4	438.1	229.6	155.7	150.5	155.7	129.3	105.5	105.5
85°	1414.6	1931.8	316.7	171.6	73.9	23.7	34.3	36.9	21.1	10.6	13.2
87.5°	26.4	198.0	7.9	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°	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6
2.5°	10720.0	10696.2	10735.8	10566.8	10601.1	10664.6	10696.2	10714.7	10975.9	10915.3	11081.5
5°	8363.2	8339.5	8492.6	8513.7	8592.8	8577.0	8653.6	8672.0	8767.0	8801.3	9033.6
7.5°	6083.0	6186.0	6360.1	6449.9	6584.5	6626.7	6587.1	6684.8	6486.9	6629.4	6671.6
10°	4887.6	4763.5	4689.7	4895.5	4921.9	5117.1	5038.0	4974.7	5090.7	5096.0	5206.9
12.5°	4069.4	3802.9	3626.1	3684.2	3747.5	3831.9	3845.1	3971.8	4056.2	4135.4	4201.4
15°	3190.7	3098.2	2937.3	2858.1	2947.9	2982.2	3063.9	3169.6	3259.3	3283.0	3372.7
17.5°	2449.1	2464.9	2438.5	2391.0	2446.4	2472.8	2478.1	2480.7	2504.5	2488.7	2620.6
20°	1971.4	2026.8	2092.8	2103.3	2121.8	2135.0	2111.2	2021.5	2024.2	2079.6	2121.8
22.5°	1784.0	1794.6	1868.4	1892.2	1950.3	1926.6	1857.9	1815.7	1810.4	1823.6	1844.7
25°	1636.2	1652.1	1704.9	1741.8	1786.6	1744.4	1694.3	1654.7	1649.5	1662.7	1683.8
27.5°	1504.3	1528.0	1575.5	1612.4	1654.7	1615.1	1567.6	1533.3	1530.7	1528.0	1541.2
30°	1398.8	1425.1	1459.4	1501.6	1530.7	1496.4	1451.5	1433.0	1430.4	1425.1	1430.4
32.5°	1293.1	1335.3	1369.7	1390.8	1419.9	1393.5	1359.1	1348.5	1330.1	1314.2	1306.3
35°	1174.4	1219.3	1272.0	1298.4	1327.4	1301.0	1277.3	1232.5	1200.8	1198.2	1203.4
37.5°	1105.7	1124.2	1166.5	1211.4	1240.4	1227.2	1182.3	1137.5	1129.5	1129.5	1134.8
40°	1045.1	1053.0	1071.4	1129.5	1182.3	1142.8	1087.3	1074.1	1074.1	1071.4	1074.1
42.5°	984.4	992.3	992.3	1037.1	1121.6	1058.2	1016.0	1016.0	1016.0	1018.7	1026.6
45°	929.0	931.6	929.0	960.6	1039.8	987.0	958.0	965.9	971.2	976.5	981.7
47.5°	881.5	884.1	881.5	907.9	947.5	926.3	910.5	921.1	931.6	939.5	944.8
50°	839.2	836.6	841.8	857.7	876.2	881.5	870.9	886.8	892.0	902.6	915.8
52.5°	802.3	799.6	804.9	812.8	839.2	839.2	839.2	852.4	863.0	873.5	892.0
55°	760.1	762.7	770.6	781.2	815.4	810.2	812.8	823.4	833.9	849.7	860.3
57.5°	720.5	725.8	736.3	752.1	786.4	783.8	786.4	791.7	804.9	812.8	823.4
60°	675.6	686.2	699.4	709.9	744.2	741.6	754.8	765.3	773.2	773.2	778.5
62.5°	630.8	646.6	659.8	667.7	704.7	707.3	725.8	733.7	738.9	733.7	741.6
65°	585.8	609.6	614.9	625.5	662.4	665.1	686.2	704.7	699.4	694.1	707.3
67.5°	541.0	570.0	567.4	580.6	617.5	622.8	641.3	673.0	662.4	657.2	667.7
70°	490.9	512.0	514.6	522.5	572.7	564.7	593.8	622.8	614.9	617.5	617.5
72.5°	435.5	453.9	453.9	469.8	522.5	509.3	533.1	564.7	564.7	562.1	562.1
75°	369.5	380.0	390.6	414.4	469.8	453.9	469.8	498.8	504.1	498.8	498.8
77.5°	298.2	314.0	319.3	351.0	390.6	388.0	403.8	417.0	427.6	422.3	422.3
80°	211.1	227.0	248.1	282.4	306.1	314.0	321.9	332.5	337.8	337.8	343.0
82.5°	118.7	142.5	161.0	195.3	205.9	245.4	242.8	250.7	242.8	213.8	237.5
85°	26.4	50.1	71.2	89.7	102.9	142.5	150.5	168.9	139.9	129.3	129.3
87.5°	0.0	0.0	0.0	0.0	0.0	21.1	42.2	58.0	50.1	42.2	42.2
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6	12857.6
2.5°	11221.4	11451.0	11728.1	12205.8	12540.9	12902.5	13266.6	13654.6	13757.5	13863.0
5°	9096.9	9548.2	9793.6	10434.9	11107.8	11963.0	12662.3	13427.7	13747.0	13820.8
7.5°	6890.6	7196.8	7840.7	8489.9	9323.8	10221.2	11292.6	12485.5	12857.6	13013.3
10°	5462.9	5879.9	6444.7	7141.4	7872.3	8838.2	10047.0	11440.4	11968.2	12055.3
12.5°	4650.1	5114.5	5729.4	6465.8	7157.2	7885.6	9104.8	10543.1	11107.8	11295.2
15°	3718.5	4280.6	4990.5	5766.4	6518.5	7315.5	8550.6	10173.7	10825.5	11044.5
17.5°	2921.5	3375.4	4143.4	4985.2	5877.2	6885.4	8434.5	10350.4	11152.8	11355.9
20°	2235.3	2559.9	3206.5	4095.8	5140.9	6460.5	8463.5	11018.1	11978.8	12255.9
22.5°	1931.8	2098.0	2491.3	3338.4	4507.5	6091.0	8582.3	11933.9	13092.4	13554.3
25°	1749.7	1836.8	2058.5	2612.7	3903.2	5732.1	8854.1	13166.4	14649.5	14955.7
27.5°	1594.0	1657.4	1794.6	2193.1	3354.2	5399.6	9170.8	14533.4	16103.6	16560.2
30°	1446.2	1530.7	1660.0	1947.7	3003.3	5096.0	9569.3	15641.8	17328.2	17753.1
32.5°	1332.7	1417.2	1535.9	1776.1	2705.1	4776.7	9806.8	16615.6	18328.4	18690.0
35°	1240.4	1311.6	1435.7	1638.9	2478.1	4533.9	9759.3	17388.9	19296.9	19666.4
37.5°	1174.4	1235.1	1359.1	1509.5	2306.5	4280.6	9735.6	18410.2	20476.6	20904.1
40°	1113.7	1177.1	1290.5	1425.1	2135.0	3982.4	9748.8	19423.7	21732.8	22160.4
42.5°	1066.2	1137.5	1229.8	1401.4	1958.2	3742.2	9748.8	20305.1	22825.4	23237.1
45°	1026.6	1103.1	1192.9	1398.8	1818.3	3560.1	9682.8	21062.5	23696.3	24047.3
47.5°	992.3	1076.7	1206.1	1351.2	1784.0	3428.2	9624.7	21669.5	24406.2	24736.1
50°	968.6	1068.8	1282.6	1295.8	1794.6	3388.6	9904.5	22434.8	25031.7	25316.7
52.5°	950.1	1071.4	1279.9	1214.0	1776.1	3415.0	10487.7	23630.3	25899.9	25921.0
55°	913.2	1068.8	1214.0	1121.6	1699.6	3459.8	11237.2	25366.8	27259.0	27274.9
57.5°	876.2	1039.8	1126.9	1042.4	1543.8	3459.8	12139.8	27011.0	28897.9	28911.1
60°	839.2	1082.0	989.7	973.8	1340.6	3396.5	13092.4	27734.1	29412.5	29547.1
62.5°	802.3	1089.9	884.1	913.2	1192.9	3243.4	13802.4	26934.5	28715.8	28908.4
65°	760.1	878.8	815.4	849.7	1116.3	2987.4	13578.0	25469.8	27406.8	27636.4
67.5°	709.9	744.2	741.6	783.8	1089.9	2610.0	12395.8	23617.1	25997.6	25984.4
70°	649.3	667.7	675.6	720.5	1039.8	2317.1	10329.3	21212.9	24115.9	24411.5
72.5°	585.8	601.7	609.6	649.3	989.7	2150.9	8017.5	17900.9	20888.3	21350.1
75°	517.3	527.8	538.4	572.7	936.9	1905.5	5711.0	13665.2	15998.1	16723.9
77.5°	446.0	446.0	459.2	493.5	789.1	1572.9	3831.9	9585.1	10838.7	11580.2
80°	361.5	364.2	358.9	395.9	580.6	1076.7	2177.3	6402.4	7212.6	7355.1
82.5°	277.1	269.2	271.8	290.3	432.8	733.7	1161.2	3977.1	4053.6	3974.5
85°	174.2	174.2	168.9	190.0	277.1	382.7	633.4	2435.9	1902.8	1810.4
87.5°	71.2	58.0	66.0	76.5	132.0	155.7	248.1	501.4	192.7	176.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)