

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: P457859

Luminaire Tested: **GALN-SA9B-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457859
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-SA9B-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA 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: 37187 lumens
Efficiency: N/A
Efficacy: 102.2 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

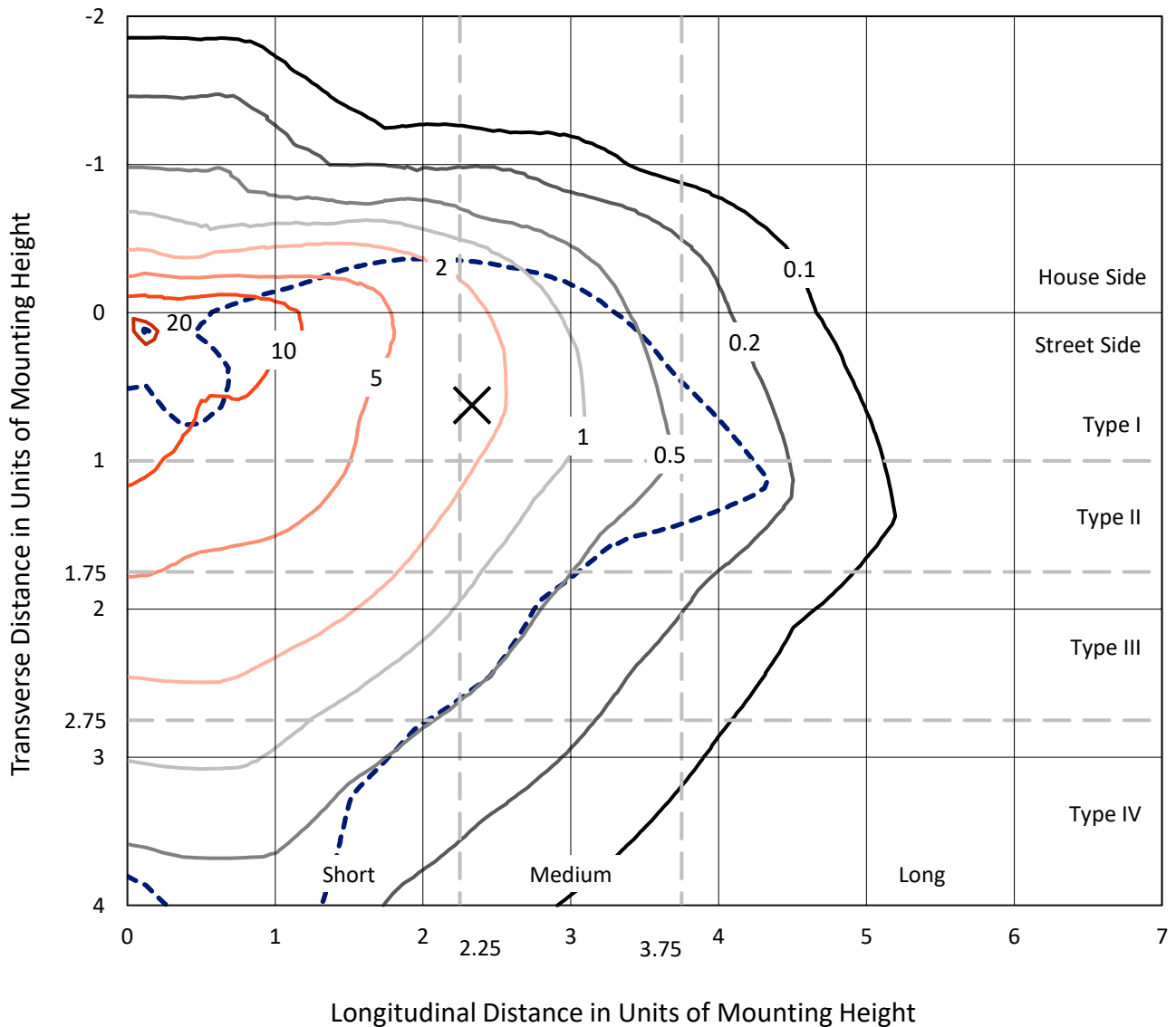
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

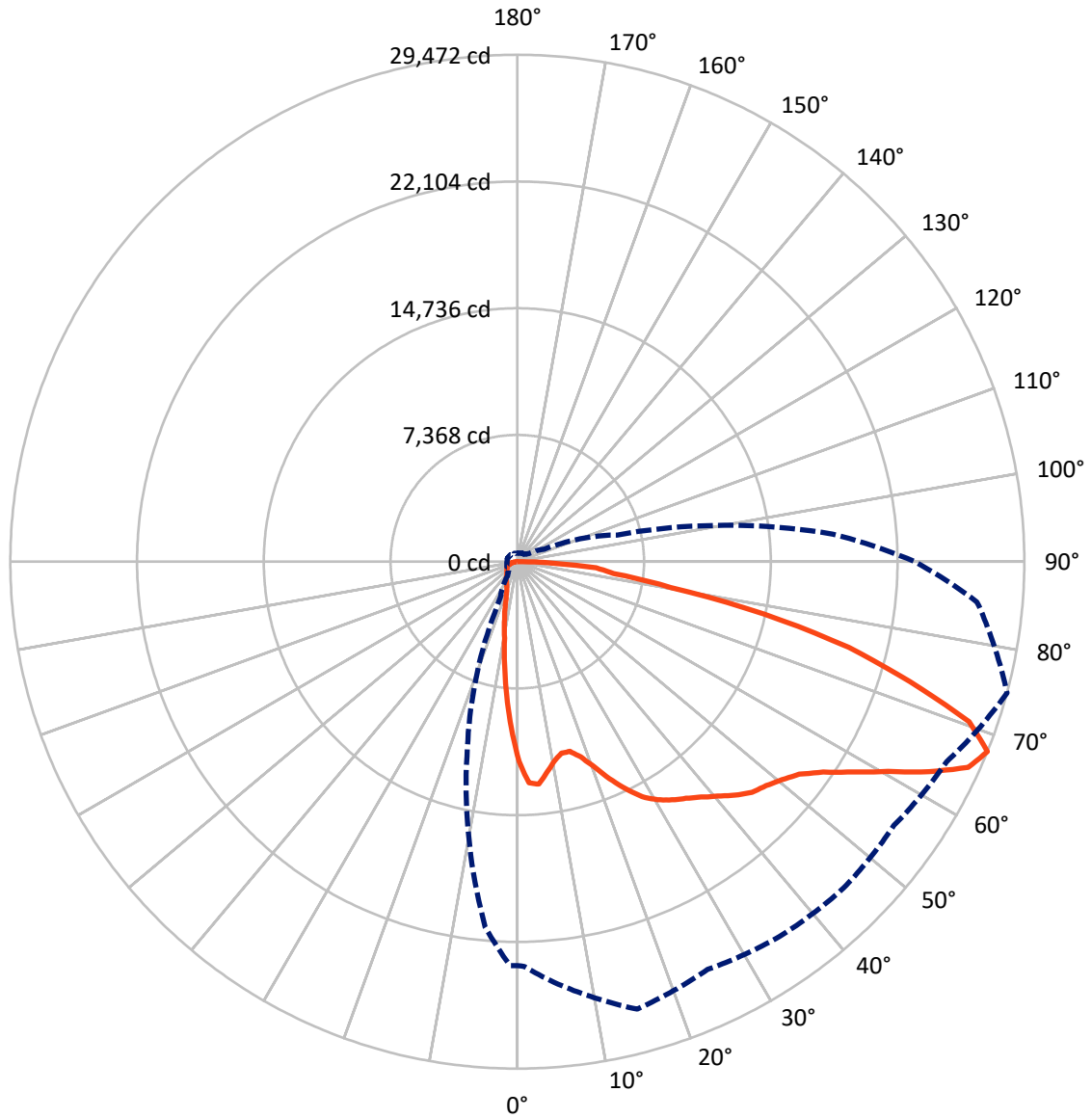
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.9 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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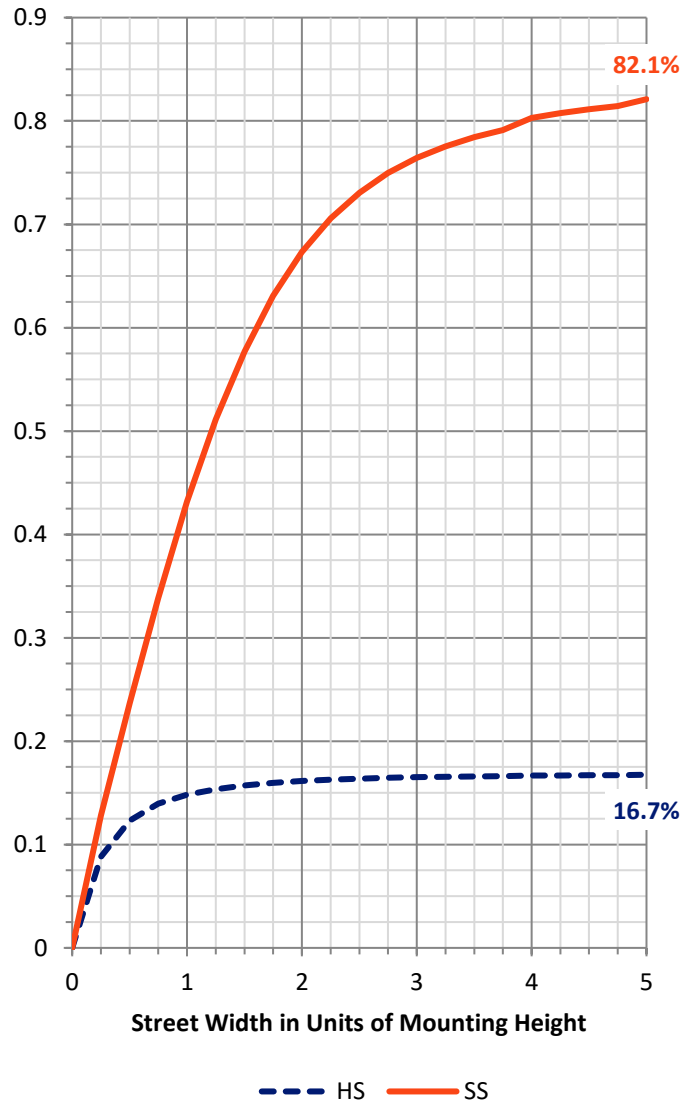
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6285.4	0.0	6285.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	30901.6	0.0	30901.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	37187.0	0.0	37187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	881.2	2.4
10°-20°	1837.8	4.9
20°-30°	2644.6	7.1
30°-40°	3808.9	10.2
40°-50°	5350.5	14.4
50°-60°	7462.1	20.1
60°-70°	8871.9	23.9
70°-80°	5225.1	14.1
80°-90°	1104.9	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°	37187.0	100.0
0°-180°	37187.0	100.0

Coefficient of Utilization



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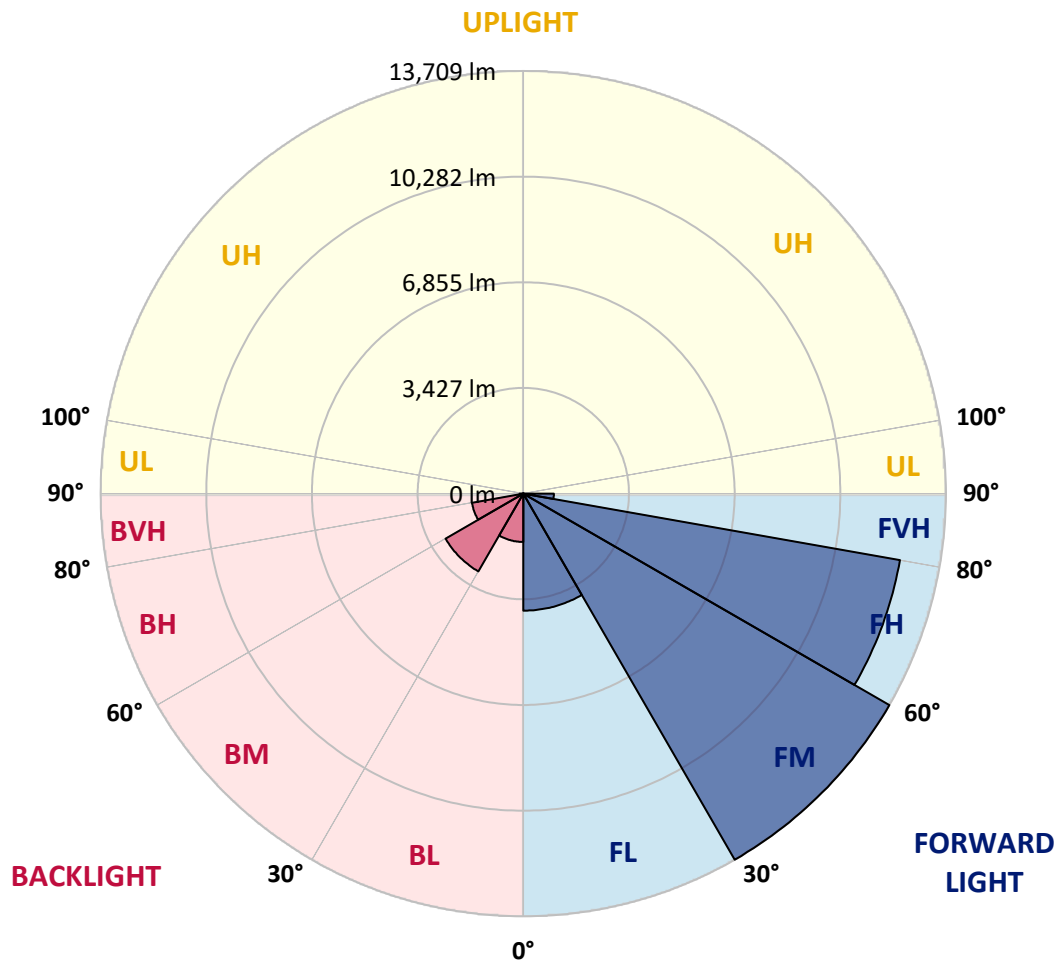
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3795.8	10.2			
FM	(30°-60°)	13709.5	36.9			
FH	(60°-80°)	12405.7	33.4			G5
FVH	(80°-90°)	990.6	2.7			G5
BL	(0°-30°)	1567.8	4.2	B3/2500		
BM	(30°-60°)	2912.0	7.8	B3/5000		
BH	(60°-80°)	1691.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	114.3	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°	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1
2.5°	12526.7	12543.3	12650.7	12963.1	13177.7	13256.4	13311.2	13208.7	13108.5	12865.3	12498.0
5°	12488.5	12586.3	12865.3	13566.4	14119.6	14358.1	14429.6	14122.0	13614.1	12989.3	12238.1
7.5°	11758.8	11890.0	12319.2	13494.8	14470.2	15028.2	14954.2	14398.6	13482.9	12369.3	11320.0
10°	10893.2	11038.6	11556.1	12977.4	14234.1	15001.9	15001.9	14324.7	13108.5	11785.0	10576.0
12.5°	10206.4	10359.0	10950.4	12445.6	13742.8	14470.2	14591.8	14009.9	12839.0	11415.4	10087.1
15°	9979.8	10127.7	10764.4	12123.6	13223.0	13666.5	13707.1	13516.3	12707.9	11441.6	10065.7
17.5°	10261.2	10452.0	11095.9	12219.0	12746.0	12772.3	12803.3	12953.5	12722.2	11921.0	10499.7
20°	11074.4	11279.5	11952.0	12526.7	12328.7	12056.9	12073.6	12459.9	12891.5	12712.7	11537.0
22.5°	12247.7	12426.5	13115.7	13068.0	12152.3	11591.9	11475.0	12014.0	13141.9	13699.9	12641.1
25°	13513.9	13723.8	14515.5	13871.6	12202.3	11315.2	11241.3	11751.6	13401.8	14622.8	13916.9
27.5°	14963.8	15168.9	15793.7	14682.4	12464.7	11293.8	11205.6	11727.8	13635.5	15476.5	15135.5
30°	16041.7	16230.0	16654.5	15364.4	12786.6	11436.9	11327.2	11916.2	13835.8	16060.7	16323.0
32.5°	16888.2	17083.8	17315.1	15788.9	13211.1	11696.8	11494.1	12259.6	14098.2	16506.7	17203.0
35°	17770.5	18001.9	17985.2	16165.7	13606.9	11997.3	11799.3	12755.6	14510.7	16895.4	18319.0
37.5°	18888.9	18982.0	18862.7	16504.3	14081.5	12538.6	12428.9	13492.4	15097.3	17365.1	19623.4
40°	20024.1	20210.1	19597.2	16914.4	14658.5	13556.8	13544.9	14582.2	15793.7	17916.0	20887.3
42.5°	20997.0	21154.4	20284.0	17272.1	15357.3	14799.2	14889.9	16044.0	16707.0	18555.1	21903.2
45°	21729.1	21869.8	20918.3	17617.9	16277.7	16234.8	16769.0	17610.8	17858.8	19129.8	22499.3
47.5°	22351.5	22487.4	21359.5	18142.5	17415.2	17949.4	18879.4	19244.3	18843.6	19458.9	23167.0
50°	22876.1	22916.7	21662.3	18767.3	18826.9	20050.3	20951.7	21187.8	19816.6	19931.0	23746.5
52.5°	23422.2	23369.7	22184.6	19554.3	20353.1	22043.9	22699.6	22945.3	20749.0	20512.9	24590.7
55°	24645.5	24695.6	23355.4	20546.3	21896.0	24001.7	24864.9	24628.8	21781.6	21583.6	25663.8
57.5°	26124.0	26081.1	25003.2	22098.7	23467.5	25823.6	26467.4	26088.3	23159.9	23055.0	26751.2
60°	26698.7	26756.0	26381.6	23768.0	25017.5	27418.9	28077.1	27488.1	24812.5	24764.8	27571.5
62.5°	26121.6	26443.6	26696.3	25253.6	26338.6	28592.2	29245.6	28573.1	26536.6	26882.4	28146.2
65°	24972.2	25041.4	25902.3	26512.7	26975.4	28785.3	29126.3	28768.6	27976.9	28811.5	28120.0
67.5°	23479.4	23539.1	24547.8	26925.3	26155.0	26591.4	26829.9	26725.0	27531.0	29472.1	26825.1
70°	22058.2	22010.5	23076.4	25873.6	22768.8	22105.9	22303.8	21974.7	23756.1	27857.7	24285.5
72.5°	19292.0	19463.7	20608.3	22950.0	18028.1	16950.2	17381.8	16530.5	18271.3	23858.6	19711.7
75°	15111.6	15152.2	17062.3	19261.0	13599.8	11899.5	12483.7	12128.4	13995.6	19902.4	13611.7
77.5°	10463.9	10373.3	12426.5	14711.0	9698.4	8711.2	8720.7	8551.4	9772.4	14653.8	9247.7
80°	6646.1	6507.8	7778.8	9088.0	6665.1	7130.2	6896.5	6889.3	6362.3	9040.3	5592.0
82.5°	3591.3	3743.9	4914.8	5697.0	4781.3	5511.0	5050.7	4902.9	4366.3	5658.8	3577.0
85°	1635.9	1779.0	2620.7	3875.1	3631.8	3672.4	2453.8	2895.0	3612.8	4595.3	1910.1
87.5°	159.8	205.1	541.3	1829.0	1240.0	977.7	364.9	703.5	908.6	1633.5	152.6
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°	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1
2.5°	12347.8	12223.8	11801.7	11453.6	11083.9	10802.5	10435.3	10189.7	10020.4	9765.2	9734.2
5°	11780.3	11477.4	10742.9	9994.1	9347.9	8861.4	8367.8	7914.7	7647.6	7564.2	7456.9
7.5°	10824.0	10313.7	9369.4	8510.9	7769.2	7044.3	6486.3	6090.4	5825.7	5670.7	5484.7
10°	10037.1	9445.7	8296.3	7244.6	6634.1	6183.4	5692.2	5267.7	4941.0	4662.0	4509.4
12.5°	9507.7	8840.0	7547.5	6693.8	6221.6	5742.3	5167.6	4690.6	4208.9	3891.8	3755.9
15°	9347.9	8642.0	7316.2	6419.5	5742.3	5115.1	4471.3	3848.9	3371.9	3071.5	2971.3
17.5°	9739.0	8885.3	7313.8	6054.7	5179.5	4430.7	3605.6	3021.4	2532.5	2308.4	2236.8
20°	10468.7	9352.7	7335.2	5694.6	4569.0	3515.0	2623.1	2143.8	1910.1	1814.7	1779.0
22.5°	11486.9	10065.7	7399.6	5339.3	3901.3	2699.4	1965.0	1721.7	1638.3	1621.6	1614.4
25°	12741.3	10948.0	7616.6	5019.7	3338.5	2060.4	1643.0	1533.3	1485.6	1469.0	1466.6
27.5°	13895.5	12087.9	7878.9	4745.5	2794.8	1776.6	1485.6	1392.6	1345.0	1342.6	1347.3
30°	14937.6	13041.7	8098.3	4437.9	2382.3	1578.6	1383.1	1290.1	1244.8	1242.4	1256.7
32.5°	15839.0	13826.3	8260.5	4135.0	2153.4	1457.0	1290.1	1189.9	1151.8	1144.6	1151.8
35°	16802.4	14608.5	8186.6	3898.9	2022.2	1356.9	1220.9	1123.2	1077.9	1056.4	1056.4
37.5°	17901.7	15414.5	8060.2	3703.4	1962.6	1273.4	1161.3	1065.9	1020.6	999.2	996.8
40°	19101.2	16220.5	7886.1	3529.3	1903.0	1223.3	1120.8	1020.6	965.8	944.3	939.6
42.5°	20160.0	16909.7	7743.0	3414.8	1805.2	1232.9	1085.0	987.3	918.1	889.5	887.1
45°	21080.5	17603.6	7716.8	3348.1	1724.1	1218.6	1075.5	961.0	879.9	848.9	844.2
47.5°	21800.6	18326.2	7867.0	3309.9	1635.9	1142.3	1137.5	944.3	846.6	813.2	808.4
50°	22678.2	19351.6	8210.4	3231.2	1554.8	1070.7	1201.9	941.9	820.3	777.4	765.5
52.5°	23846.7	20687.0	8675.4	3090.5	1438.0	1003.9	1147.0	941.9	789.3	746.4	732.1
55°	25613.7	22389.6	9130.9	2892.6	1273.4	915.7	1034.9	913.3	744.0	705.9	696.3
57.5°	26784.6	23634.4	9421.8	2618.4	1068.3	851.3	891.9	868.0	698.7	658.2	658.2
60°	26844.2	23968.3	9283.5	2272.6	939.6	791.7	775.0	875.2	658.2	615.2	610.5
62.5°	26157.4	23150.3	8563.3	1962.6	870.4	727.3	701.1	767.9	617.6	574.7	567.6
65°	25084.3	21063.8	7313.8	1814.7	832.2	670.1	631.9	629.6	574.7	534.2	524.6
67.5°	23112.2	18407.2	6009.4	1728.9	813.2	605.7	569.9	558.0	524.6	491.2	486.5
70°	20205.3	15416.9	4819.4	1693.1	803.6	538.9	510.3	496.0	467.4	441.2	438.8
72.5°	15719.7	12505.2	3977.6	1669.3	798.9	476.9	445.9	426.9	410.2	386.3	386.3
75°	11291.4	9200.0	3035.7	1504.7	739.2	410.2	376.8	364.9	341.0	321.9	326.7
77.5°	7118.2	6195.4	1998.4	1106.5	572.3	329.1	300.5	293.3	274.2	248.0	264.7
80°	4807.5	4356.8	1166.1	696.3	360.1	240.9	231.3	228.9	207.5	178.9	181.2
82.5°	3271.8	3209.8	605.7	395.9	207.5	140.7	135.9	140.7	116.8	95.4	95.4
85°	1278.2	1745.6	286.2	155.0	66.8	21.5	31.0	33.4	19.1	9.5	11.9
87.5°	23.8	178.9	7.2	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°	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1
2.5°	9686.5	9665.1	9700.8	9548.2	9579.2	9636.4	9665.1	9681.7	9917.8	9863.0	10013.2
5°	7557.0	7535.5	7673.9	7692.9	7764.5	7750.2	7819.3	7836.0	7921.9	7952.9	8162.7
7.5°	5496.7	5589.7	5747.0	5828.1	5949.7	5987.9	5952.1	6040.4	5861.5	5990.3	6028.4
10°	4416.4	4304.3	4237.6	4423.6	4447.4	4623.9	4552.3	4495.1	4600.0	4604.8	4704.9
12.5°	3677.2	3436.3	3276.5	3329.0	3386.2	3462.5	3474.5	3588.9	3665.2	3736.8	3796.4
15°	2883.1	2799.6	2654.1	2582.6	2663.7	2694.7	2768.6	2864.0	2945.1	2966.5	3047.6
17.5°	2213.0	2227.3	2203.4	2160.5	2210.6	2234.4	2239.2	2241.6	2263.0	2248.7	2368.0
20°	1781.3	1831.4	1891.0	1900.6	1917.3	1929.2	1907.7	1826.7	1829.0	1879.1	1917.3
22.5°	1612.0	1621.6	1688.3	1709.8	1762.3	1740.8	1678.8	1640.7	1635.9	1647.8	1666.9
25°	1478.5	1492.8	1540.5	1573.9	1614.4	1576.3	1531.0	1495.2	1490.4	1502.3	1521.4
27.5°	1359.3	1380.7	1423.6	1457.0	1495.2	1459.4	1416.5	1385.5	1383.1	1380.7	1392.6
30°	1263.9	1287.7	1318.7	1356.9	1383.1	1352.1	1311.6	1294.9	1292.5	1287.7	1292.5
32.5°	1168.5	1206.6	1237.6	1256.7	1283.0	1259.1	1228.1	1218.6	1201.9	1187.6	1180.4
35°	1061.2	1101.7	1149.4	1173.3	1199.5	1175.6	1154.2	1113.6	1085.0	1082.6	1087.4
37.5°	999.2	1015.9	1054.0	1094.6	1120.8	1108.9	1068.3	1027.8	1020.6	1020.6	1025.4
40°	944.3	951.5	968.2	1020.6	1068.3	1032.6	982.5	970.6	970.6	968.2	970.6
42.5°	889.5	896.6	896.6	937.2	1013.5	956.3	918.1	918.1	918.1	920.5	927.6
45°	839.4	841.8	839.4	868.0	939.6	891.9	865.6	872.8	877.6	882.3	887.1
47.5°	796.5	798.9	796.5	820.3	856.1	837.0	822.7	832.2	841.8	848.9	853.7
50°	758.3	755.9	760.7	775.0	791.7	796.5	786.9	801.2	806.0	815.6	827.5
52.5°	724.9	722.6	727.3	734.5	758.3	758.3	758.3	770.2	779.8	789.3	806.0
55°	686.8	689.2	696.3	705.9	736.9	732.1	734.5	744.0	753.6	767.9	777.4
57.5°	651.0	655.8	665.3	679.6	710.6	708.2	710.6	715.4	727.3	734.5	744.0
60°	610.5	620.0	631.9	641.5	672.5	670.1	682.0	691.6	698.7	698.7	703.5
62.5°	569.9	584.2	596.2	603.3	636.7	639.1	655.8	662.9	667.7	662.9	670.1
65°	529.4	550.9	555.6	565.2	598.6	600.9	620.0	636.7	631.9	627.2	639.1
67.5°	488.9	515.1	512.7	524.6	558.0	562.8	579.5	608.1	598.6	593.8	603.3
70°	443.5	462.6	465.0	472.2	517.5	510.3	536.6	562.8	555.6	558.0	558.0
72.5°	393.5	410.2	410.2	424.5	472.2	460.2	481.7	510.3	510.3	507.9	507.9
75°	333.9	343.4	352.9	374.4	424.5	410.2	424.5	450.7	455.5	450.7	450.7
77.5°	269.5	283.8	288.5	317.2	352.9	350.5	364.9	376.8	386.3	381.5	381.5
80°	190.8	205.1	224.2	255.2	276.6	283.8	290.9	300.5	305.2	305.2	310.0
82.5°	107.3	128.8	145.5	176.5	186.0	221.8	219.4	226.5	219.4	193.2	214.6
85°	23.8	45.3	64.4	81.1	93.0	128.8	135.9	152.6	126.4	116.8	116.8
87.5°	0.0	0.0	0.0	0.0	0.0	19.1	38.2	52.5	45.3	38.2	38.2
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°	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1	11618.1
2.5°	10139.6	10347.1	10597.5	11029.1	11331.9	11658.6	11987.7	12338.3	12431.3	12526.7
5°	8219.9	8627.7	8849.5	9429.0	10037.1	10809.7	11441.6	12133.2	12421.7	12488.5
7.5°	6226.4	6503.0	7084.8	7671.5	8425.0	9235.8	10204.0	11281.9	11618.1	11758.8
10°	4936.3	5313.0	5823.4	6452.9	7113.5	7986.3	9078.4	10337.5	10814.5	10893.2
12.5°	4201.8	4621.5	5177.1	5842.4	6467.2	7125.4	8227.1	9526.7	10037.1	10206.4
15°	3360.0	3867.9	4509.4	5210.5	5890.1	6610.3	7726.3	9192.9	9781.9	9979.8
17.5°	2639.8	3050.0	3743.9	4504.6	5310.7	6221.6	7621.4	9352.7	10077.6	10261.2
20°	2019.8	2313.1	2897.4	3701.0	4645.3	5837.7	7647.6	9956.0	10824.0	11074.4
22.5°	1745.6	1895.8	2251.1	3016.6	4073.0	5503.8	7754.9	10783.5	11830.3	12247.7
25°	1581.0	1659.7	1860.0	2360.8	3526.9	5179.5	8000.6	11897.1	13237.3	13513.9
27.5°	1440.3	1497.6	1621.6	1981.7	3030.9	4879.0	8286.7	13132.4	14551.2	14963.8
30°	1306.8	1383.1	1500.0	1759.9	2713.8	4604.8	8646.8	14133.9	15657.7	16041.7
32.5°	1204.3	1280.6	1387.9	1604.9	2444.3	4316.2	8861.4	15013.9	16561.5	16888.2
35°	1120.8	1185.2	1297.3	1480.9	2239.2	4096.9	8818.5	15712.6	17436.7	17770.5
37.5°	1061.2	1116.0	1228.1	1364.0	2084.2	3867.9	8797.0	16635.4	18502.6	18888.9
40°	1006.3	1063.6	1166.1	1287.7	1929.2	3598.5	8809.0	17551.2	19637.7	20024.1
42.5°	963.4	1027.8	1111.3	1266.3	1769.4	3381.5	8809.0	18347.6	20625.0	20997.0
45°	927.6	996.8	1077.9	1263.9	1643.0	3216.9	8749.3	19032.0	21411.9	21729.1
47.5°	896.6	972.9	1089.8	1220.9	1612.0	3097.7	8696.9	19580.5	22053.4	22351.5
50°	875.2	965.8	1158.9	1170.9	1621.6	3061.9	8949.7	20272.1	22618.6	22876.1
52.5°	858.5	968.2	1156.6	1096.9	1604.9	3085.8	9476.7	21352.3	23403.1	23422.2
55°	825.1	965.8	1096.9	1013.5	1535.7	3126.3	10153.9	22921.4	24631.2	24645.5
57.5°	791.7	939.6	1018.3	941.9	1395.0	3126.3	10969.5	24407.1	26112.1	26124.0
60°	758.3	977.7	894.3	879.9	1211.4	3069.1	11830.3	25060.5	26577.1	26698.7
62.5°	724.9	984.9	798.9	825.1	1077.9	2930.8	12471.8	24337.9	25947.6	26121.6
65°	686.8	794.1	736.9	767.9	1008.7	2699.4	12269.1	23014.4	24764.8	24972.2
67.5°	641.5	672.5	670.1	708.2	984.9	2358.4	11200.8	21340.4	23491.4	23479.4
70°	586.6	603.3	610.5	651.0	939.6	2093.7	9333.6	19168.0	21791.1	22058.2
72.5°	529.4	543.7	550.9	586.6	894.3	1943.5	7244.6	16175.2	18874.6	19292.0
75°	467.4	476.9	486.5	517.5	846.6	1721.7	5160.4	12347.8	14455.9	15111.6
77.5°	403.0	403.0	414.9	445.9	713.0	1421.3	3462.5	8661.1	9793.8	10463.9
80°	326.7	329.1	324.3	357.7	524.6	972.9	1967.4	5785.2	6517.3	6646.1
82.5°	250.4	243.2	245.6	262.3	391.1	662.9	1049.3	3593.7	3662.8	3591.3
85°	157.4	157.4	152.6	171.7	250.4	345.8	572.3	2201.0	1719.3	1635.9
87.5°	64.4	52.5	59.6	69.2	119.2	140.7	224.2	453.1	174.1	159.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)