

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: P455597

Luminaire Tested: **GALN-SA6D-740-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455597
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-SA6D-740-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 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: 39542 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

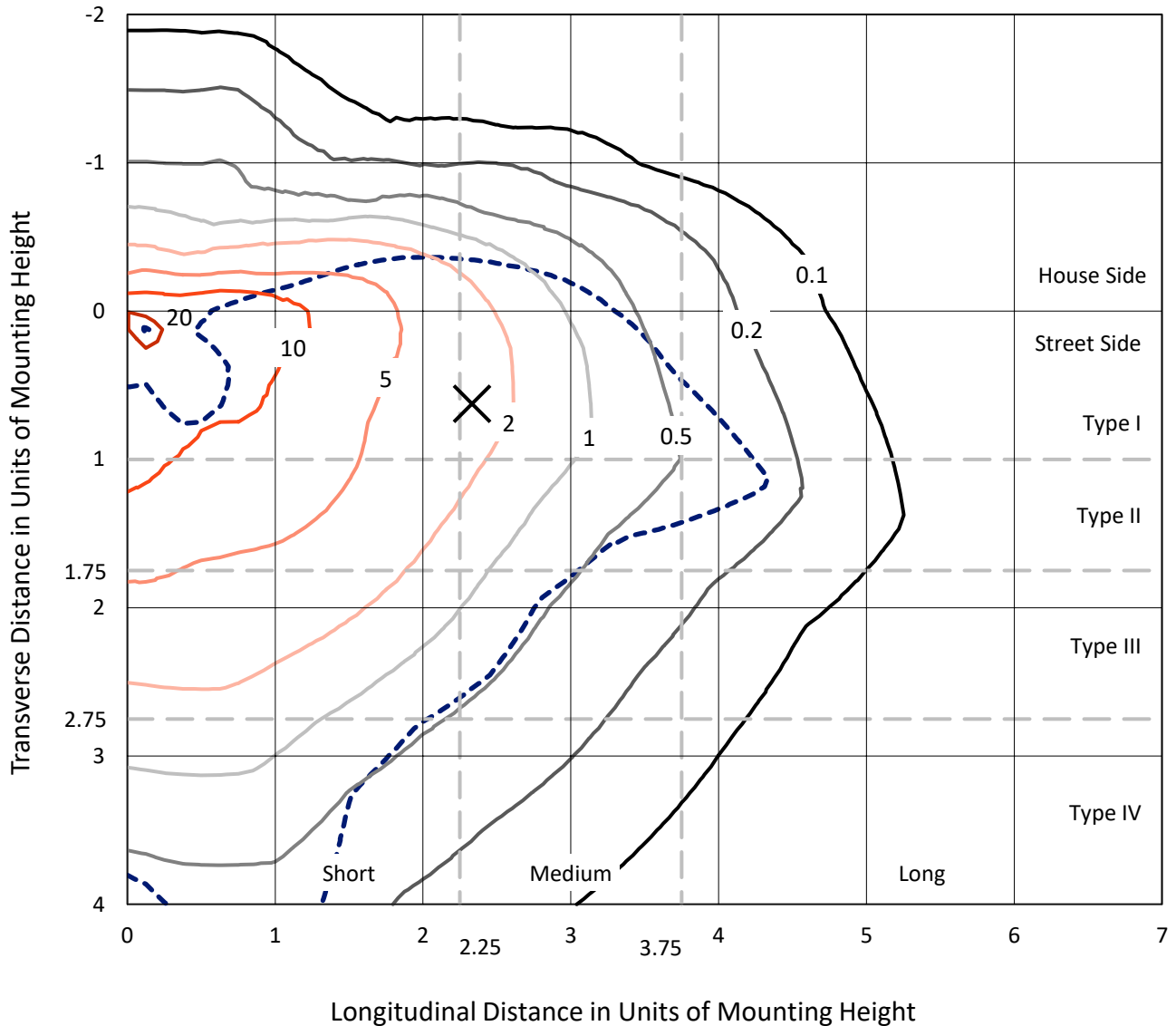
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

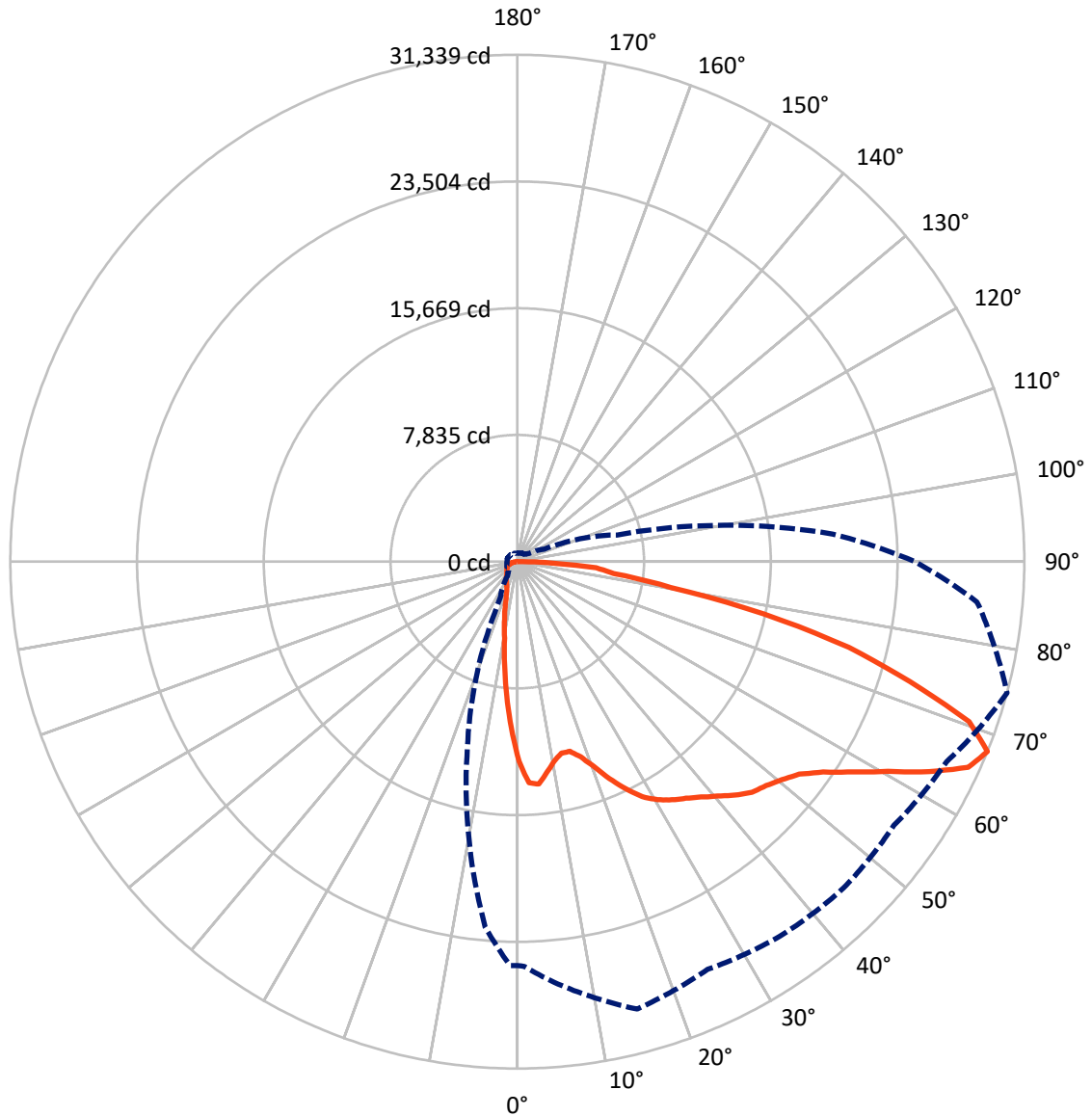
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.4 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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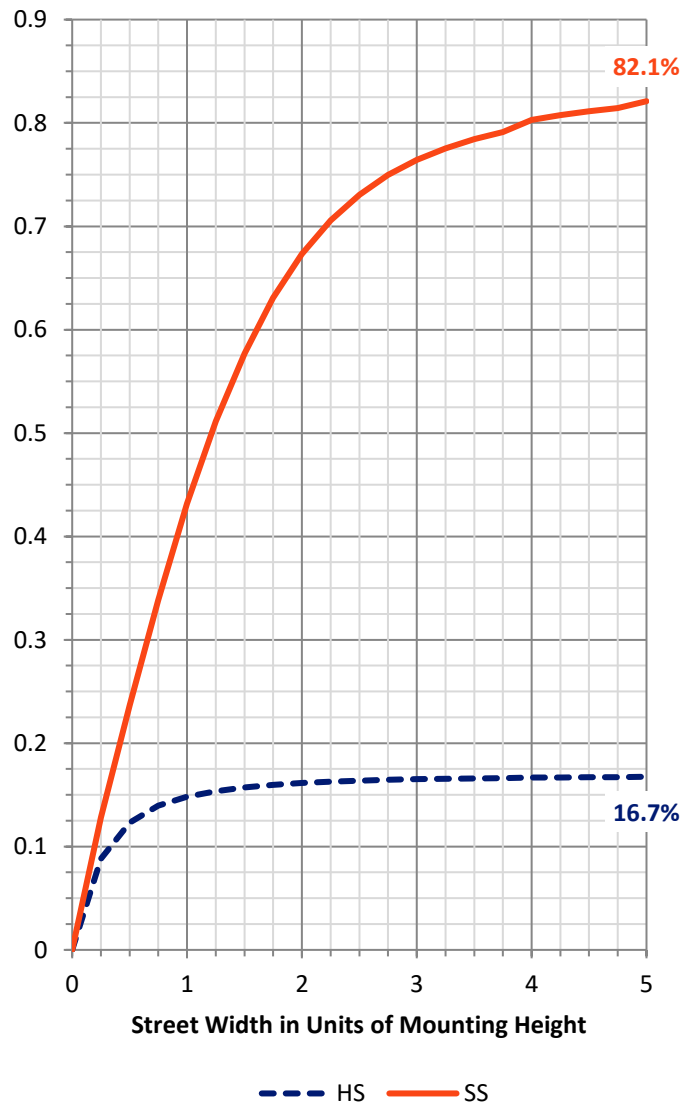
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6683.4	0.0	6683.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	32858.6	0.0	32858.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	39542.0	0.0	39542.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	937.0	2.4
10°-20°	1954.2	4.9
20°-30°	2812.1	7.1
30°-40°	4050.1	10.2
40°-50°	5689.3	14.4
50°-60°	7934.6	20.1
60°-70°	9433.8	23.9
70°-80°	5556.0	14.1
80°-90°	1174.9	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°	39542.0	100.0
0°-180°	39542.0	100.0



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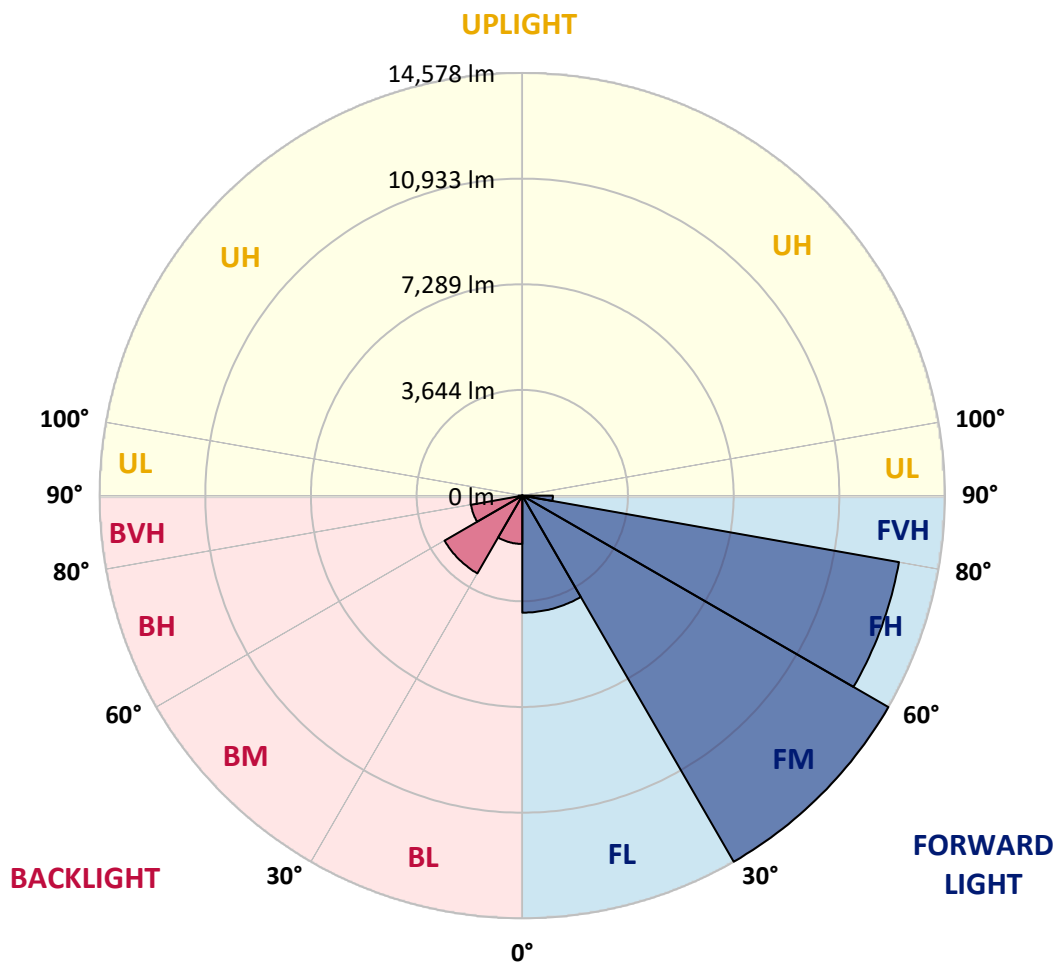
CATALOG NUMBER: GALN-SA6D-740-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4036.2	10.2			
FM	(30°-60°)	14577.7	36.9			
FH	(60°-80°)	13191.4	33.4			G5
FVH	(80°-90°)	1053.4	2.7			G5
BL	(0°-30°)	1667.1	4.2	B3/2500		
BM	(30°-60°)	3096.5	7.8	B3/5000		
BH	(60°-80°)	1798.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	121.5	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°	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9
2.5°	13320.0	13337.7	13451.8	13784.0	14012.2	14095.9	14154.2	14045.2	13938.7	13680.0	13289.5
5°	13279.4	13383.3	13680.0	14425.5	15013.8	15267.4	15343.4	15016.3	14476.2	13811.9	13013.1
7.5°	12503.5	12642.9	13099.3	14349.4	15386.5	15979.9	15901.3	15310.5	14336.8	13152.6	12036.9
10°	11583.0	11737.7	12287.9	13799.2	15135.5	15952.0	15952.0	15231.9	13938.7	12531.4	11245.8
12.5°	10852.7	11015.0	11643.9	13233.7	14613.2	15386.5	15515.9	14897.1	13652.1	12138.3	10725.9
15°	10611.8	10769.1	11446.1	12891.4	14060.4	14532.0	14575.1	14372.3	13512.7	12166.2	10703.1
17.5°	10911.1	11113.9	11798.5	12992.8	13553.2	13581.1	13614.1	13773.8	13527.9	12675.9	11164.6
20°	11775.7	11993.8	12708.9	13320.0	13109.5	12820.4	12838.2	13249.0	13707.9	13517.7	12267.6
22.5°	13023.3	13213.5	13946.3	13895.6	12921.8	12326.0	12201.7	12774.8	13974.2	14567.5	13441.7
25°	14369.7	14592.9	15434.7	14750.1	12975.1	12031.8	11953.2	12495.9	14250.5	15548.8	14798.3
27.5°	15911.4	16129.5	16793.8	15612.2	13254.0	12009.0	11915.2	12470.5	14499.0	16456.6	16094.0
30°	17057.6	17257.9	17709.2	16337.4	13596.3	12161.1	12044.5	12670.8	14712.0	17077.8	17356.8
32.5°	17957.7	18165.6	18411.6	16788.8	14047.7	12437.5	12222.0	13036.0	14991.0	17552.0	18292.4
35°	18895.9	19141.9	19124.1	17189.4	14468.6	12757.0	12546.6	13563.4	15429.6	17965.3	19479.1
37.5°	20085.2	20184.1	20057.3	17549.5	14973.2	13332.6	13216.0	14346.9	16053.4	18464.9	20866.2
40°	21292.1	21489.9	20838.3	17985.6	15586.9	14415.4	14402.7	15505.7	16793.8	19050.6	22210.1
42.5°	22326.7	22494.1	21568.5	18366.0	16329.8	15736.5	15832.8	17060.1	17765.0	19730.2	23290.3
45°	23105.2	23254.8	22243.0	18733.6	17308.6	17262.9	17830.9	18726.0	18989.7	20341.3	23924.2
47.5°	23767.0	23911.5	22712.1	19291.5	18518.1	19086.1	20075.0	20463.0	20037.0	20691.2	24634.2
50°	24324.8	24367.9	23034.2	19955.8	20019.2	21320.0	22278.5	22529.6	21071.5	21193.3	25250.3
52.5°	24905.5	24849.7	23589.5	20792.6	21642.1	23439.9	24137.2	24398.4	22063.0	21812.0	26148.0
55°	26206.3	26259.6	24834.5	21847.5	23282.7	25521.7	26439.6	26188.6	23160.9	22950.5	27289.0
57.5°	27778.4	27732.8	26586.7	23498.2	24953.7	27458.9	28143.6	27740.4	24626.6	24515.0	28445.3
60°	28389.5	28450.4	28052.3	25273.2	26601.9	29155.3	29855.2	29228.8	26383.8	26333.1	29317.6
62.5°	27775.9	28118.2	28387.0	26852.9	28006.6	30402.9	31097.6	30382.6	28217.1	28584.8	29928.7
65°	26553.7	26627.2	27542.6	28191.7	28683.7	30608.3	30970.9	30590.5	29748.7	30636.1	29900.8
67.5°	24966.4	25029.7	26102.3	28630.4	27811.4	28275.4	28529.0	28417.4	29274.5	31338.5	28523.9
70°	23455.1	23404.4	24537.8	27512.2	24210.7	23505.8	23716.3	23366.3	25260.5	29621.9	25823.4
72.5°	20513.7	20696.3	21913.4	24403.4	19169.8	18023.6	18482.6	17577.4	19428.4	25369.5	20960.0
75°	16068.6	16111.7	18142.8	20480.7	14461.0	12653.1	13274.3	12896.5	14881.9	21162.8	14473.7
77.5°	11126.6	11030.2	13213.5	15642.6	10312.6	9262.9	9273.0	9093.0	10391.2	15581.8	9833.4
80°	7067.0	6919.9	8271.4	9663.5	7087.2	7581.7	7333.2	7325.6	6765.2	9612.8	5946.2
82.5°	3818.7	3981.0	5226.0	6057.8	5084.0	5860.0	5370.6	5213.4	4642.8	6017.2	3803.5
85°	1739.5	1891.6	2786.7	4120.5	3861.8	3905.0	2609.2	3078.3	3841.6	4886.3	2031.1
87.5°	169.9	218.1	575.6	1944.9	1318.6	1039.6	388.0	748.0	966.1	1736.9	162.3
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°	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9
2.5°	13129.8	12997.9	12549.1	12178.9	11785.9	11486.7	11096.2	10835.0	10654.9	10383.6	10350.7
5°	12526.3	12204.3	11423.3	10627.1	9939.9	9422.6	8897.7	8415.9	8131.9	8043.2	7929.1
7.5°	11509.5	10966.8	9962.7	9049.9	8261.3	7490.4	6897.1	6476.1	6194.7	6029.9	5832.1
10°	10672.7	10043.8	8821.6	7703.4	7054.3	6575.0	6052.7	5601.3	5253.9	4957.3	4795.0
12.5°	10109.8	9399.8	8025.4	7117.7	6615.6	6105.9	5494.8	4987.7	4475.5	4138.2	3993.7
15°	9939.9	9189.3	7779.5	6826.1	6105.9	5439.0	4754.4	4092.6	3585.5	3266.0	3159.5
17.5°	10355.7	9448.0	7776.9	6438.1	5507.5	4711.3	3834.0	3212.7	2692.9	2454.5	2378.5
20°	11131.7	9945.0	7799.8	6055.2	4858.4	3737.6	2789.3	2279.6	2031.1	1929.7	1891.6
22.5°	12214.4	10703.1	7868.2	5677.4	4148.4	2870.4	2089.4	1830.8	1742.0	1724.3	1716.7
25°	13548.2	11641.3	8099.0	5337.6	3550.0	2190.8	1747.1	1630.4	1579.7	1562.0	1559.4
27.5°	14775.4	12853.4	8377.9	5046.0	2971.8	1889.1	1579.7	1480.8	1430.1	1427.6	1432.7
30°	15883.5	13867.7	8611.2	4718.9	2533.1	1678.6	1470.7	1371.8	1323.6	1321.1	1336.3
32.5°	16842.0	14701.9	8783.6	4396.9	2289.7	1549.3	1371.8	1265.3	1224.7	1217.1	1224.7
35°	17866.4	15533.6	8705.0	4145.8	2150.3	1442.8	1298.3	1194.3	1146.1	1123.3	1123.3
37.5°	19035.4	16390.7	8570.6	3937.9	2086.9	1354.1	1234.9	1133.5	1085.3	1062.5	1059.9
40°	20310.8	17247.7	8385.5	3752.8	2023.5	1300.8	1191.8	1085.3	1027.0	1004.1	999.1
42.5°	21436.7	17980.5	8233.4	3631.1	1919.5	1310.9	1153.7	1049.8	976.2	945.8	943.3
45°	22415.5	18718.4	8205.5	3560.1	1833.3	1295.7	1143.6	1021.9	935.7	902.7	897.6
47.5°	23181.2	19486.7	8365.2	3519.5	1739.5	1214.6	1209.5	1004.1	900.2	864.7	859.6
50°	24114.4	20577.1	8730.4	3435.9	1653.3	1138.5	1278.0	1001.6	872.3	826.6	814.0
52.5°	25356.8	21997.1	9224.8	3286.2	1529.0	1067.5	1219.7	1001.6	839.3	793.7	778.5
55°	27235.8	23807.5	9709.1	3075.8	1354.1	973.7	1100.5	971.2	791.1	750.6	740.4
57.5°	28480.8	25131.2	10018.5	2784.2	1136.0	905.2	948.3	923.0	743.0	699.8	699.8
60°	28544.2	25486.2	9871.4	2416.5	999.1	841.8	824.1	930.6	699.8	654.2	649.1
62.5°	27813.9	24616.4	9105.6	2086.9	925.5	773.4	745.5	816.5	656.7	611.1	603.5
65°	26672.9	22397.7	7776.9	1929.7	885.0	712.5	672.0	669.4	611.1	568.0	557.9
67.5°	24575.9	19573.0	6389.9	1838.4	864.7	644.1	606.0	593.4	557.9	522.4	517.3
70°	21484.9	16393.2	5124.6	1800.3	854.5	573.1	542.6	527.4	497.0	469.1	466.6
72.5°	16715.2	13297.1	4229.5	1775.0	849.5	507.1	474.2	453.9	436.1	410.8	410.8
75°	12006.5	9782.7	3227.9	1600.0	786.1	436.1	400.6	388.0	362.6	342.3	347.4
77.5°	7569.0	6587.7	2124.9	1176.6	608.6	349.9	319.5	311.9	291.6	263.7	281.5
80°	5111.9	4632.7	1239.9	740.4	382.9	256.1	246.0	243.4	220.6	190.2	192.7
82.5°	3479.0	3413.0	644.1	420.9	220.6	149.6	144.5	149.6	124.2	101.4	101.4
85°	1359.1	1856.1	304.3	164.8	71.0	22.8	33.0	35.5	20.3	10.1	12.7
87.5°	25.4	190.2	7.6	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°	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9
2.5°	10300.0	10277.1	10315.2	10152.9	10185.8	10246.7	10277.1	10294.9	10545.9	10487.6	10647.3
5°	8035.6	8012.8	8159.8	8180.1	8256.2	8241.0	8314.5	8332.3	8423.5	8456.5	8679.6
7.5°	5844.8	5943.6	6111.0	6197.2	6326.5	6367.1	6329.1	6422.9	6232.7	6369.6	6410.2
10°	4696.1	4576.9	4505.9	4703.7	4729.1	4916.7	4840.6	4779.8	4891.3	4896.4	5002.9
12.5°	3910.0	3653.9	3484.0	3539.8	3600.7	3681.8	3694.5	3816.2	3897.3	3973.4	4036.8
15°	3065.6	2976.9	2822.2	2746.1	2832.4	2865.3	2943.9	3045.4	3131.6	3154.4	3240.6
17.5°	2353.1	2368.3	2343.0	2297.3	2350.6	2375.9	2381.0	2383.5	2406.4	2391.2	2517.9
20°	1894.2	1947.4	2010.8	2020.9	2038.7	2051.4	2028.5	1942.3	1944.9	1998.1	2038.7
22.5°	1714.1	1724.3	1795.3	1818.1	1873.9	1851.0	1785.1	1744.6	1739.5	1752.2	1772.4
25°	1572.1	1587.3	1638.1	1673.6	1716.7	1676.1	1627.9	1589.9	1584.8	1597.5	1617.8
27.5°	1445.3	1468.2	1513.8	1549.3	1589.9	1551.8	1506.2	1473.2	1470.7	1468.2	1480.8
30°	1343.9	1369.3	1402.2	1442.8	1470.7	1437.7	1394.6	1376.9	1374.3	1369.3	1374.3
32.5°	1242.5	1283.1	1316.0	1336.3	1364.2	1338.8	1305.9	1295.7	1278.0	1262.8	1255.2
35°	1128.4	1171.5	1222.2	1247.6	1275.4	1250.1	1227.3	1184.2	1153.7	1151.2	1156.3
37.5°	1062.5	1080.2	1120.8	1163.9	1191.8	1179.1	1136.0	1092.9	1085.3	1085.3	1090.3
40°	1004.1	1011.7	1029.5	1085.3	1136.0	1098.0	1044.7	1032.0	1032.0	1029.5	1032.0
42.5°	945.8	953.4	953.4	996.5	1077.7	1016.8	976.2	976.2	976.2	978.8	986.4
45°	892.6	895.1	892.6	923.0	999.1	948.3	920.5	928.1	933.1	938.2	943.3
47.5°	846.9	849.5	846.9	872.3	910.3	890.0	874.8	885.0	895.1	902.7	907.8
50°	806.3	803.8	808.9	824.1	841.8	846.9	836.8	852.0	857.1	867.2	879.9
52.5°	770.8	768.3	773.4	781.0	806.3	806.3	806.3	819.0	829.2	839.3	857.1
55°	730.3	732.8	740.4	750.6	783.5	778.5	781.0	791.1	801.3	816.5	826.6
57.5°	692.2	697.3	707.5	722.7	755.6	753.1	755.6	760.7	773.4	781.0	791.1
60°	649.1	659.3	672.0	682.1	715.1	712.5	725.2	735.3	743.0	743.0	748.0
62.5°	606.0	621.2	633.9	641.5	677.0	679.6	697.3	704.9	710.0	704.9	712.5
65°	562.9	585.7	590.8	601.0	636.5	639.0	659.3	677.0	672.0	666.9	679.6
67.5°	519.8	547.7	545.2	557.9	593.4	598.4	616.2	646.6	636.5	631.4	641.5
70°	471.6	491.9	494.5	502.1	550.2	542.6	570.5	598.4	590.8	593.4	593.4
72.5°	418.4	436.1	436.1	451.4	502.1	489.4	512.2	542.6	542.6	540.1	540.1
75°	355.0	365.1	375.3	398.1	451.4	436.1	451.4	479.2	484.3	479.2	479.2
77.5°	286.5	301.7	306.8	337.2	375.3	372.7	388.0	400.6	410.8	405.7	405.7
80°	202.9	218.1	238.4	271.3	294.1	301.7	309.4	319.5	324.6	324.6	329.6
82.5°	114.1	136.9	154.7	187.6	197.8	235.8	233.3	240.9	233.3	205.4	228.2
85°	25.4	48.2	68.5	86.2	98.9	136.9	144.5	162.3	134.4	124.2	124.2
87.5°	0.0	0.0	0.0	0.0	0.0	20.3	40.6	55.8	48.2	40.6	40.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9	12353.9
2.5°	10781.7	11002.3	11268.6	11727.5	12049.6	12397.0	12746.9	13119.6	13218.5	13320.0
5°	8740.5	9174.1	9409.9	10026.1	10672.7	11494.3	12166.2	12901.6	13208.4	13279.4
7.5°	6620.7	6914.8	7533.5	8157.3	8958.6	9820.7	10850.2	11996.3	12353.9	12503.5
10°	5248.9	5649.5	6192.1	6861.6	7563.9	8492.0	9653.4	10992.2	11499.3	11583.0
12.5°	4467.9	4914.2	5505.0	6212.4	6876.8	7576.6	8748.1	10130.1	10672.7	10852.7
15°	3572.8	4112.9	4795.0	5540.5	6263.1	7028.9	8215.6	9775.1	10401.4	10611.8
17.5°	2807.0	3243.1	3981.0	4789.9	5647.0	6615.6	8104.0	9945.0	10715.8	10911.1
20°	2147.7	2459.6	3080.9	3935.4	4939.5	6207.4	8131.9	10586.5	11509.5	11775.7
22.5°	1856.1	2015.9	2393.7	3207.6	4330.9	5852.4	8246.0	11466.4	12579.5	13023.3
25°	1681.2	1764.8	1977.8	2510.3	3750.3	5507.5	8507.2	12650.5	14075.6	14369.7
27.5°	1531.6	1592.4	1724.3	2107.2	3222.9	5188.0	8811.5	13964.0	15472.7	15911.4
30°	1389.6	1470.7	1594.9	1871.3	2885.6	4896.4	9194.4	15029.0	16649.3	17057.6
32.5°	1280.5	1361.7	1475.8	1706.5	2599.1	4589.6	9422.6	15964.7	17610.3	17957.7
35°	1191.8	1260.2	1379.4	1574.7	2381.0	4356.3	9377.0	16707.6	18540.9	18895.9
37.5°	1128.4	1186.7	1305.9	1450.4	2216.2	4112.9	9354.1	17688.9	19674.4	20085.2
40°	1070.1	1130.9	1239.9	1369.3	2051.4	3826.3	9366.8	18662.6	20881.4	21292.1
42.5°	1024.4	1092.9	1181.6	1346.4	1881.5	3595.6	9366.8	19509.6	21931.1	22326.7
45°	986.4	1059.9	1146.1	1343.9	1747.1	3420.6	9303.4	20237.3	22767.9	23105.2
47.5°	953.4	1034.6	1158.8	1298.3	1714.1	3293.9	9247.6	20820.5	23450.0	23767.0
50°	930.6	1027.0	1232.3	1245.0	1724.3	3255.8	9516.4	21555.9	24051.0	24324.8
52.5°	912.8	1029.5	1229.8	1166.4	1706.5	3281.2	10076.8	22704.5	24885.2	24905.5
55°	877.3	1027.0	1166.4	1077.7	1633.0	3324.3	10796.9	24373.0	26191.1	26206.3
57.5°	841.8	999.1	1082.7	1001.6	1483.4	3324.3	11664.2	25952.7	27765.7	27778.4
60°	806.3	1039.6	950.9	935.7	1288.1	3263.4	12579.5	26647.5	28260.2	28389.5
62.5°	770.8	1047.2	849.5	877.3	1146.1	3116.4	13261.6	25879.2	27590.8	27775.9
65°	730.3	844.4	783.5	816.5	1072.6	2870.4	13046.1	24471.9	26333.1	26553.7
67.5°	682.1	715.1	712.5	753.1	1047.2	2507.8	11910.1	22691.8	24979.0	24966.4
70°	623.8	641.5	649.1	692.2	999.1	2226.3	9924.7	20381.8	23171.1	23455.1
72.5°	562.9	578.1	585.7	623.8	950.9	2066.6	7703.4	17199.6	20069.9	20513.7
75°	497.0	507.1	517.3	550.2	900.2	1830.8	5487.2	13129.8	15371.3	16068.6
77.5°	428.5	428.5	441.2	474.2	758.2	1511.3	3681.8	9209.6	10414.1	11126.6
80°	347.4	349.9	344.9	380.4	557.9	1034.6	2091.9	6151.6	6930.0	7067.0
82.5°	266.2	258.6	261.2	278.9	415.9	704.9	1115.7	3821.3	3894.8	3818.7
85°	167.4	167.4	162.3	182.6	266.2	367.7	608.6	2340.4	1828.2	1739.5
87.5°	68.5	55.8	63.4	73.5	126.8	149.6	238.4	481.8	185.1	169.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)