

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: P459309

Luminaire Tested: **GALN-SA7D-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459309
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-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 43266 lumens
Efficiency: N/A
Efficacy: 99.9 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

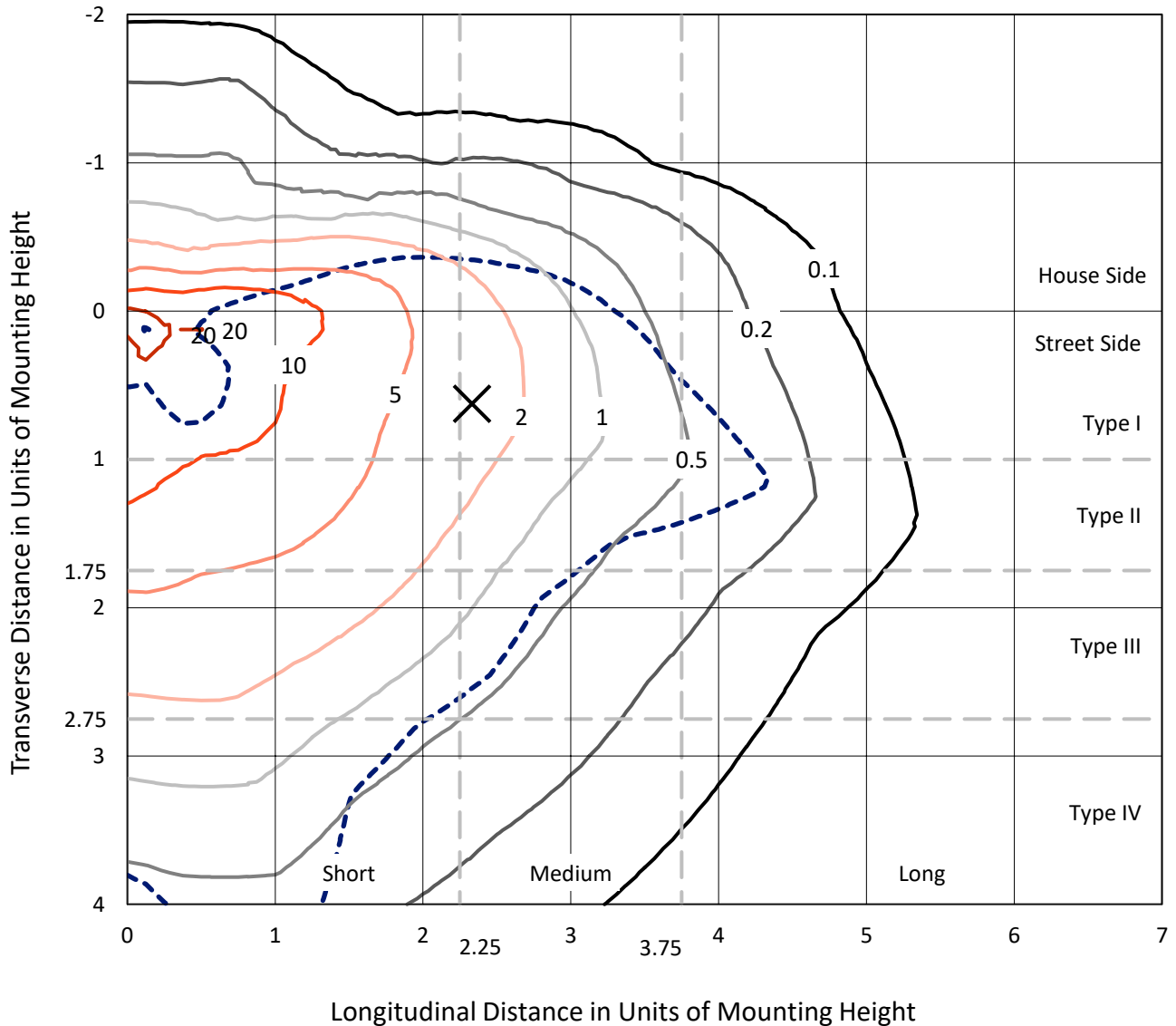
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

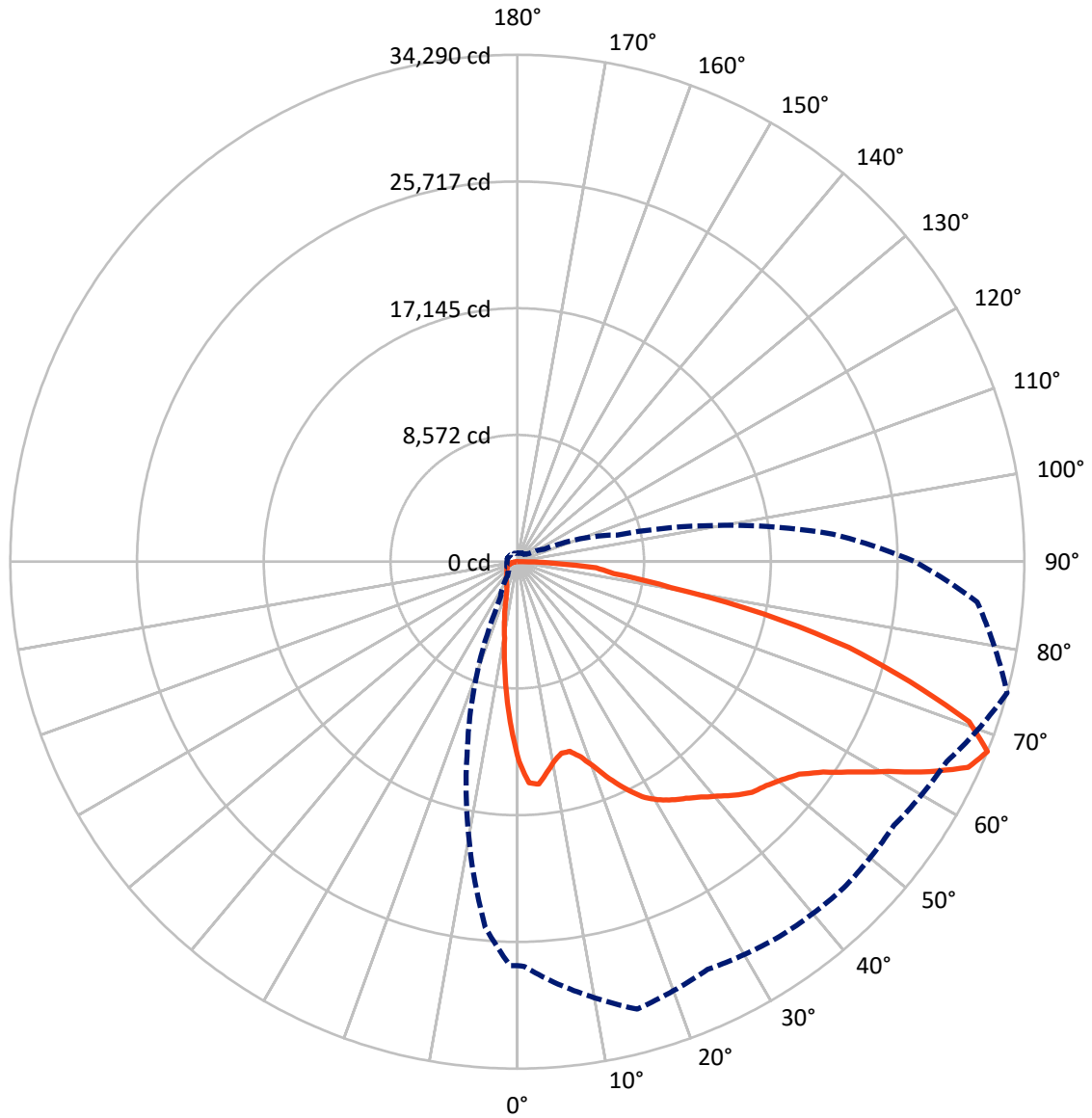
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.7 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	7312.9	0.0	7312.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	35953.1	0.0	35953.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	43266.0	0.0	43266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1025.3	2.4
10°-20°	2138.2	4.9
20°-30°	3076.9	7.1
30°-40°	4431.6	10.2
40°-50°	6225.2	14.4
50°-60°	8681.9	20.1
60°-70°	10322.2	23.9
70°-80°	6079.2	14.1
80°-90°	1285.5	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°	43266.0	100.0
0°-180°	43266.0	100.0

Coefficient of Utilization



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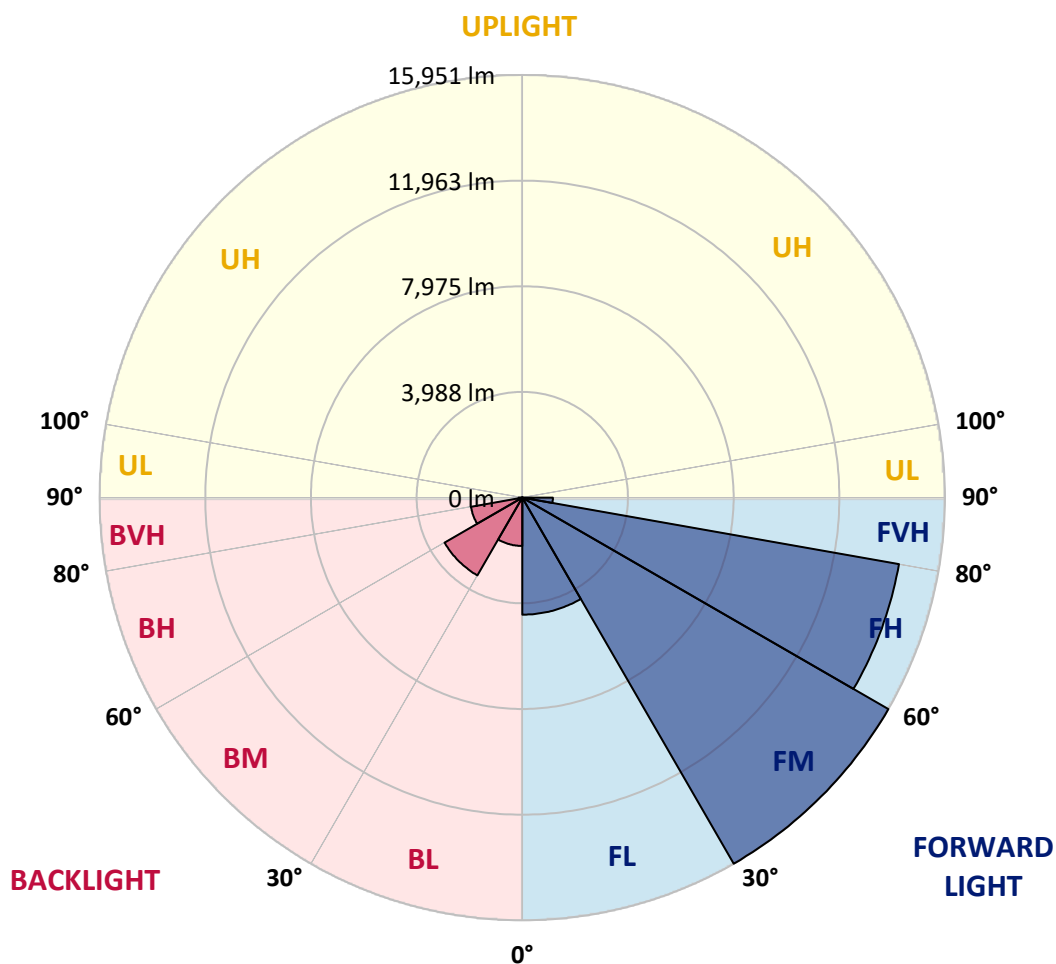
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4416.3	10.2			
FM	(30°-60°)	15950.6	36.9			
FH	(60°-80°)	14433.7	33.4			G5
FVH	(80°-90°)	1152.6	2.7			G5
BL	(0°-30°)	1824.1	4.2	B3/2500		
BM	(30°-60°)	3388.1	7.8	B3/5000		
BH	(60°-80°)	1967.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	133.0	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°	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3
2.5°	14574.4	14593.8	14718.7	15082.1	15331.8	15423.4	15487.2	15367.9	15251.4	14968.4	14541.1
5°	14530.0	14643.8	14968.4	15784.1	16427.8	16705.2	16788.4	16430.5	15839.6	15112.7	14238.7
7.5°	13681.0	13833.6	14333.0	15700.8	16835.6	17484.8	17398.8	16752.4	15687.0	14391.3	13170.5
10°	12673.9	12843.1	13445.2	15098.8	16560.9	17454.3	17454.3	16666.4	15251.4	13711.5	12304.9
12.5°	11874.8	12052.4	12740.5	14480.1	15989.4	16835.6	16977.1	16300.1	14937.9	13281.5	11736.1
15°	11611.2	11783.3	12524.1	14105.5	15384.6	15900.6	15947.8	15725.8	14785.3	13312.0	11711.1
17.5°	11938.6	12160.6	12909.7	14216.5	14829.7	14860.2	14896.2	15071.0	14801.9	13869.7	12216.1
20°	12884.7	13123.3	13905.8	14574.4	14344.1	14027.8	14047.3	14496.7	14998.9	14790.8	13423.0
22.5°	14249.8	14457.9	15259.7	15204.2	14138.8	13486.8	13350.9	13977.9	15290.2	15939.5	14707.6
25°	15723.0	15967.2	16888.3	16139.2	14197.1	13165.0	13079.0	13672.7	15592.6	17013.2	16191.9
27.5°	17409.9	17648.5	18375.5	17082.5	14502.3	13140.0	13037.3	13644.9	15864.5	18006.4	17609.7
30°	18664.0	18883.2	19377.0	17876.0	14876.8	13306.5	13178.8	13864.1	16097.6	18686.2	18991.4
32.5°	19648.9	19876.5	20145.6	18369.9	15370.7	13608.9	13373.0	14263.7	16402.8	19205.0	20015.2
35°	20675.5	20944.6	20925.2	18808.3	15831.2	13958.5	13728.2	14840.8	16882.8	19657.3	21313.6
37.5°	21976.7	22085.0	21946.2	19202.3	16383.4	14588.3	14460.6	15698.1	17565.3	20203.8	22831.3
40°	23297.4	23513.8	22800.8	19679.5	17054.8	15773.0	15759.1	16966.0	18375.5	20844.8	24301.8
42.5°	24429.4	24612.5	23599.8	20095.6	17867.7	17218.5	17323.9	18666.8	19438.1	21588.3	25483.7
45°	25281.2	25444.9	24337.8	20497.9	18938.7	18888.7	19510.2	20489.6	20778.2	22257.0	26177.3
47.5°	26005.3	26163.5	24851.1	21108.3	20262.1	20883.6	21965.6	22390.1	21924.0	22639.9	26954.2
50°	26615.7	26662.9	25203.5	21835.2	21904.6	23327.9	24376.7	24651.4	23056.0	23189.2	27628.4
52.5°	27251.1	27190.0	25811.1	22750.8	23680.3	25647.4	26410.4	26696.2	24140.8	23866.2	28610.6
55°	28674.4	28732.6	27173.4	23905.0	25475.4	27925.3	28929.6	28654.9	25342.2	25111.9	29859.1
57.5°	30394.6	30344.6	29090.5	25711.2	27303.8	30045.0	30794.1	30352.9	26945.9	26823.8	31124.2
60°	31063.2	31129.8	30694.2	27653.4	29107.2	31901.1	32666.9	31981.6	28868.6	28813.1	32078.7
62.5°	30391.8	30766.3	31060.4	29381.9	30644.3	33266.2	34026.4	33244.0	30874.5	31276.8	32747.3
65°	29054.5	29134.9	30136.5	30846.8	31385.0	33490.9	33887.6	33471.5	32550.3	33521.4	32716.8
67.5°	27317.6	27387.0	28560.6	31326.8	30430.6	30938.4	31215.8	31093.7	32031.5	34289.9	31210.3
70°	25664.0	25608.6	26848.8	30103.2	26490.8	25719.5	25949.8	25566.9	27639.5	32411.6	28255.4
72.5°	22445.6	22645.4	23977.2	26701.7	20975.2	19721.1	20223.3	19232.8	21258.2	27758.8	22933.9
75°	17582.0	17629.1	19851.5	22409.6	15822.9	13844.7	14524.5	14111.1	16283.5	23155.9	15836.8
77.5°	12174.5	12069.0	14457.9	17115.8	11283.9	10135.2	10146.3	9949.3	11369.9	17049.2	10759.5
80°	7732.5	7571.6	9050.4	10573.6	7754.7	8295.7	8023.8	8015.5	7402.3	10518.1	6506.2
82.5°	4178.4	4356.0	5718.2	6628.3	5562.9	6411.8	5876.4	5704.4	5080.1	6583.9	4161.7
85°	1903.3	2069.8	3049.2	4508.5	4225.6	4272.7	2855.0	3368.2	4203.4	5346.4	2222.4
87.5°	185.9	238.6	629.8	2128.0	1442.7	1137.5	424.5	818.5	1057.1	1900.5	177.6
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°	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3
2.5°	14366.3	14222.0	13731.0	13325.9	12895.8	12568.4	12141.2	11855.4	11658.4	11361.5	11325.5
5°	13706.0	13353.6	12499.1	11627.9	10876.0	10310.0	9735.7	9208.5	8897.8	8800.7	8675.8
7.5°	12593.4	11999.7	10901.0	9902.2	9039.3	8195.8	7546.6	7086.1	6778.1	6597.7	6381.3
10°	11677.8	10989.8	9652.5	8428.9	7718.6	7194.3	6622.7	6128.9	5748.7	5424.1	5246.6
12.5°	11061.9	10285.0	8781.3	7788.0	7238.6	6681.0	6012.3	5457.4	4897.0	4528.0	4369.8
15°	10876.0	10054.8	8512.1	7468.9	6681.0	5951.3	5202.2	4478.0	3923.1	3573.5	3457.0
17.5°	11331.0	10337.8	8509.4	7044.4	6026.2	5155.0	4195.0	3515.3	2946.5	2685.7	2602.5
20°	12180.0	10881.6	8534.3	6625.5	5315.9	4089.6	3051.9	2494.3	2222.4	2111.4	2069.8
22.5°	13364.7	11711.1	8609.2	6212.1	4539.1	3140.7	2286.2	2003.2	1906.1	1886.7	1878.3
25°	14824.1	12737.7	8861.7	5840.3	3884.3	2397.2	1911.6	1784.0	1728.5	1709.1	1706.3
27.5°	16167.0	14063.9	9166.9	5521.2	3251.7	2067.0	1728.5	1620.3	1564.8	1562.0	1567.6
30°	17379.4	15173.7	9422.2	5163.3	2771.7	1836.7	1609.2	1501.0	1448.3	1445.5	1462.2
32.5°	18428.2	16086.5	9610.8	4811.0	2505.4	1695.2	1501.0	1384.5	1340.1	1331.8	1340.1
35°	19549.1	16996.5	9524.8	4536.3	2352.8	1578.7	1420.5	1306.8	1254.1	1229.1	1229.1
37.5°	20828.1	17934.3	9377.8	4308.8	2283.4	1481.6	1351.2	1240.2	1187.5	1162.5	1159.7
40°	22223.7	18872.1	9175.2	4106.2	2214.0	1423.3	1304.0	1187.5	1123.7	1098.7	1093.1
42.5°	23455.6	19673.9	9008.8	3973.1	2100.3	1434.4	1262.4	1148.6	1068.2	1034.9	1032.1
45°	24526.5	20481.3	8978.3	3895.4	2006.0	1417.8	1251.3	1118.1	1023.8	987.7	982.2
47.5°	25364.4	21322.0	9153.0	3851.0	1903.3	1329.0	1323.4	1098.7	984.9	946.1	940.6
50°	26385.4	22515.0	9552.6	3759.4	1809.0	1245.7	1398.3	1095.9	954.4	904.5	890.6
52.5°	27744.9	24068.7	10093.6	3595.7	1673.0	1168.1	1334.5	1095.9	918.4	868.4	851.8
55°	29800.8	26049.7	10623.5	3365.5	1481.6	1065.4	1204.1	1062.6	865.6	821.2	810.2
57.5°	31163.1	27498.0	10962.0	3046.4	1243.0	990.5	1037.7	1009.9	812.9	765.8	765.8
60°	31232.5	27886.4	10801.1	2644.1	1093.1	921.1	901.7	1018.2	765.8	715.8	710.3
62.5°	30433.4	26934.8	9963.2	2283.4	1012.7	846.2	815.7	893.4	718.6	668.7	660.3
65°	29184.9	24507.1	8509.4	2111.4	968.3	779.6	735.2	732.5	668.7	621.5	610.4
67.5°	26890.4	21416.3	6991.7	2011.5	946.1	704.7	663.1	649.2	610.4	571.5	566.0
70°	23508.3	17937.1	5607.2	1969.9	935.0	627.0	593.7	577.1	543.8	513.3	510.5
72.5°	18289.4	14549.4	4627.9	1942.1	929.5	554.9	518.8	496.6	477.2	449.5	449.5
75°	13137.2	10704.0	3531.9	1750.7	860.1	477.2	438.4	424.5	396.8	374.6	380.1
77.5°	8281.9	7208.1	2325.0	1287.4	665.9	382.9	349.6	341.3	319.1	288.5	308.0
80°	5593.4	5069.0	1356.7	810.2	418.9	280.2	269.1	266.4	241.4	208.1	210.9
82.5°	3806.6	3734.5	704.7	460.6	241.4	163.7	158.1	163.7	136.0	111.0	111.0
85°	1487.1	2030.9	332.9	180.3	77.7	25.0	36.1	38.8	22.2	11.1	13.9
87.5°	27.7	208.1	8.3	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°	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3
2.5°	11270.0	11245.0	11286.6	11109.1	11145.1	11211.7	11245.0	11264.4	11539.1	11475.3	11650.1
5°	8792.4	8767.4	8928.3	8950.5	9033.7	9017.1	9097.6	9117.0	9216.9	9252.9	9497.1
7.5°	6395.2	6503.4	6686.5	6780.9	6922.4	6966.7	6925.1	7027.8	6819.7	6969.5	7013.9
10°	5138.4	5008.0	4930.3	5146.7	5174.4	5379.7	5296.5	5229.9	5352.0	5357.5	5474.1
12.5°	4278.3	3998.0	3812.2	3873.2	3939.8	4028.6	4042.4	4175.6	4264.4	4347.6	4417.0
15°	3354.4	3257.3	3088.0	3004.8	3099.1	3135.2	3221.2	3332.2	3426.5	3451.5	3545.8
17.5°	2574.7	2591.4	2563.6	2513.7	2572.0	2599.7	2605.2	2608.0	2633.0	2616.3	2755.1
20°	2072.5	2130.8	2200.2	2211.3	2230.7	2244.6	2219.6	2125.3	2128.0	2186.3	2230.7
22.5°	1875.6	1886.7	1964.3	1989.3	2050.3	2025.4	1953.2	1908.9	1903.3	1917.2	1939.4
25°	1720.2	1736.8	1792.3	1831.2	1878.3	1833.9	1781.2	1739.6	1734.1	1747.9	1770.1
27.5°	1581.5	1606.4	1656.4	1695.2	1739.6	1698.0	1648.0	1612.0	1609.2	1606.4	1620.3
30°	1470.5	1498.2	1534.3	1578.7	1609.2	1573.1	1526.0	1506.5	1503.8	1498.2	1503.8
32.5°	1359.5	1403.9	1440.0	1462.2	1492.7	1464.9	1428.9	1417.8	1398.3	1381.7	1373.4
35°	1234.6	1281.8	1337.3	1365.0	1395.6	1367.8	1342.9	1295.7	1262.4	1259.6	1265.2
37.5°	1162.5	1181.9	1226.3	1273.5	1304.0	1290.1	1243.0	1195.8	1187.5	1187.5	1193.0
40°	1098.7	1107.0	1126.4	1187.5	1243.0	1201.4	1143.1	1129.2	1129.2	1126.4	1129.2
42.5°	1034.9	1043.2	1043.2	1090.4	1179.2	1112.6	1068.2	1068.2	1068.2	1071.0	1079.3
45°	976.6	979.4	976.6	1009.9	1093.1	1037.7	1007.1	1015.5	1021.0	1026.6	1032.1
47.5°	926.7	929.5	926.7	954.4	996.0	973.8	957.2	968.3	979.4	987.7	993.3
50°	882.3	879.5	885.1	901.7	921.1	926.7	915.6	932.2	937.8	948.9	962.7
52.5°	843.4	840.7	846.2	854.5	882.3	882.3	882.3	896.2	907.3	918.4	937.8
55°	799.1	801.8	810.2	821.2	857.3	851.8	854.5	865.6	876.7	893.4	904.5
57.5°	757.4	763.0	774.1	790.7	826.8	824.0	826.8	832.3	846.2	854.5	865.6
60°	710.3	721.4	735.2	746.3	782.4	779.6	793.5	804.6	812.9	812.9	818.5
62.5°	663.1	679.8	693.6	701.9	740.8	743.6	763.0	771.3	776.9	771.3	779.6
65°	615.9	640.9	646.5	657.6	696.4	699.2	721.4	740.8	735.2	729.7	743.6
67.5°	568.8	599.3	596.5	610.4	649.2	654.8	674.2	707.5	696.4	690.8	701.9
70°	516.1	538.3	541.0	549.3	602.1	593.7	624.3	654.8	646.5	649.2	649.2
72.5°	457.8	477.2	477.2	493.9	549.3	535.5	560.4	593.7	593.7	591.0	591.0
75°	388.4	399.5	410.6	435.6	493.9	477.2	493.9	524.4	529.9	524.4	524.4
77.5°	313.5	330.2	335.7	369.0	410.6	407.9	424.5	438.4	449.5	443.9	443.9
80°	222.0	238.6	260.8	296.9	321.8	330.2	338.5	349.6	355.1	355.1	360.7
82.5°	124.9	149.8	169.2	205.3	216.4	258.0	255.3	263.6	255.3	224.7	249.7
85°	27.7	52.7	74.9	94.3	108.2	149.8	158.1	177.6	147.0	136.0	136.0
87.5°	0.0	0.0	0.0	0.0	0.0	22.2	44.4	61.0	52.7	44.4	44.4
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°	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3	13517.3
2.5°	11797.1	12038.5	12329.8	12832.0	13184.4	13564.5	13947.4	14355.2	14463.4	14574.4
5°	9563.7	10038.1	10296.1	10970.3	11677.8	12576.8	13312.0	14116.6	14452.3	14530.0
7.5°	7244.2	7566.0	8243.0	8925.5	9802.3	10745.6	11872.0	13126.1	13517.3	13681.0
10°	5743.2	6181.6	6775.3	7507.8	8276.3	9291.8	10562.5	12027.4	12582.3	12673.9
12.5°	4888.7	5377.0	6023.4	6797.5	7524.4	8290.2	9572.0	11084.1	11677.8	11874.8
15°	3909.3	4500.2	5246.6	6062.3	6853.0	7690.9	8989.4	10695.7	11381.0	11611.2
17.5°	3071.4	3548.6	4356.0	5241.0	6178.8	7238.6	8867.3	10881.6	11725.0	11938.6
20°	2350.0	2691.3	3371.0	4306.0	5404.7	6792.0	8897.8	11583.5	12593.4	12884.7
22.5°	2030.9	2205.7	2619.1	3509.7	4738.8	6403.5	9022.6	12546.3	13764.3	14249.8
25°	1839.5	1931.0	2164.1	2746.7	4103.5	6026.2	9308.4	13841.9	15401.2	15723.0
27.5°	1675.8	1742.4	1886.7	2305.6	3526.4	5676.6	9641.4	15279.1	16929.9	17409.9
30°	1520.4	1609.2	1745.2	2047.6	3157.4	5357.5	10060.3	16444.4	18217.3	18664.0
32.5°	1401.1	1489.9	1614.8	1867.2	2843.9	5021.8	10310.0	17468.2	19268.8	19648.9
35°	1304.0	1378.9	1509.3	1723.0	2605.2	4766.6	10260.1	18281.1	20287.1	20675.5
37.5°	1234.6	1298.5	1428.9	1587.0	2424.9	4500.2	10235.1	19354.9	21527.3	21976.7
40°	1170.8	1237.4	1356.7	1498.2	2244.6	4186.7	10249.0	20420.3	22847.9	23297.4
42.5°	1120.9	1195.8	1292.9	1473.3	2058.7	3934.2	10249.0	21346.9	23996.6	24429.4
45°	1079.3	1159.7	1254.1	1470.5	1911.6	3742.8	10179.6	22143.2	24912.2	25281.2
47.5°	1043.2	1132.0	1267.9	1420.5	1875.6	3604.1	10118.6	22781.3	25658.5	26005.3
50°	1018.2	1123.7	1348.4	1362.3	1886.7	3562.4	10412.7	23586.0	26316.1	26615.7
52.5°	998.8	1126.4	1345.6	1276.3	1867.2	3590.2	11025.8	24842.8	27228.9	27251.1
55°	960.0	1123.7	1276.3	1179.2	1786.8	3637.4	11813.8	26668.4	28657.7	28674.4
57.5°	921.1	1093.1	1184.7	1095.9	1623.1	3637.4	12762.7	28396.9	30380.7	30394.6
60°	882.3	1137.5	1040.4	1023.8	1409.4	3570.8	13764.3	29157.1	30921.7	31063.2
62.5°	843.4	1145.9	929.5	960.0	1254.1	3409.8	14510.6	28316.5	30189.2	30391.8
65°	799.1	923.9	857.3	893.4	1173.6	3140.7	14274.8	26776.6	28813.1	29054.5
67.5°	746.3	782.4	779.6	824.0	1145.9	2744.0	13031.8	24828.9	27331.5	27317.6
70°	682.5	701.9	710.3	757.4	1093.1	2436.0	10859.4	22301.4	25353.3	25664.0
72.5°	615.9	632.6	640.9	682.5	1040.4	2261.2	8428.9	18819.4	21960.1	22445.6
75°	543.8	554.9	566.0	602.1	984.9	2003.2	6004.0	14366.3	16819.0	17582.0
77.5°	468.9	468.9	482.8	518.8	829.6	1653.6	4028.6	10077.0	11394.8	12174.5
80°	380.1	382.9	377.3	416.2	610.4	1132.0	2289.0	6730.9	7582.7	7732.5
82.5°	291.3	283.0	285.8	305.2	455.0	771.3	1220.8	4181.2	4261.6	4178.4
85°	183.1	183.1	177.6	199.8	291.3	402.3	665.9	2560.9	2000.4	1903.3
87.5°	74.9	61.0	69.4	80.5	138.7	163.7	260.8	527.2	202.5	185.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)