

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: P456554

Luminaire Tested: **GALN-SA7D-750-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456554
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-750-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 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: 46445 lumens
Efficiency: N/A
Efficacy: 107.3 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

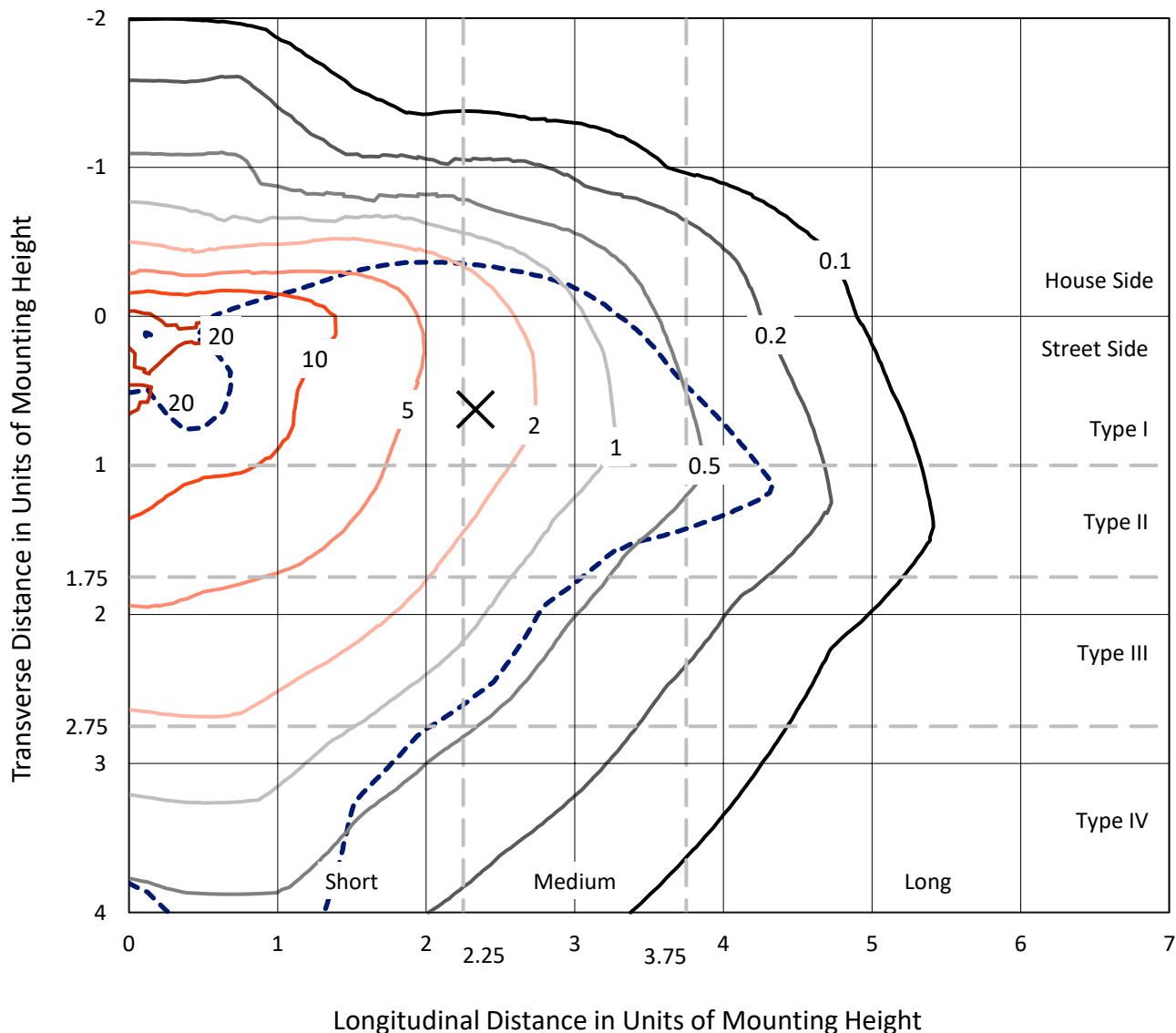
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

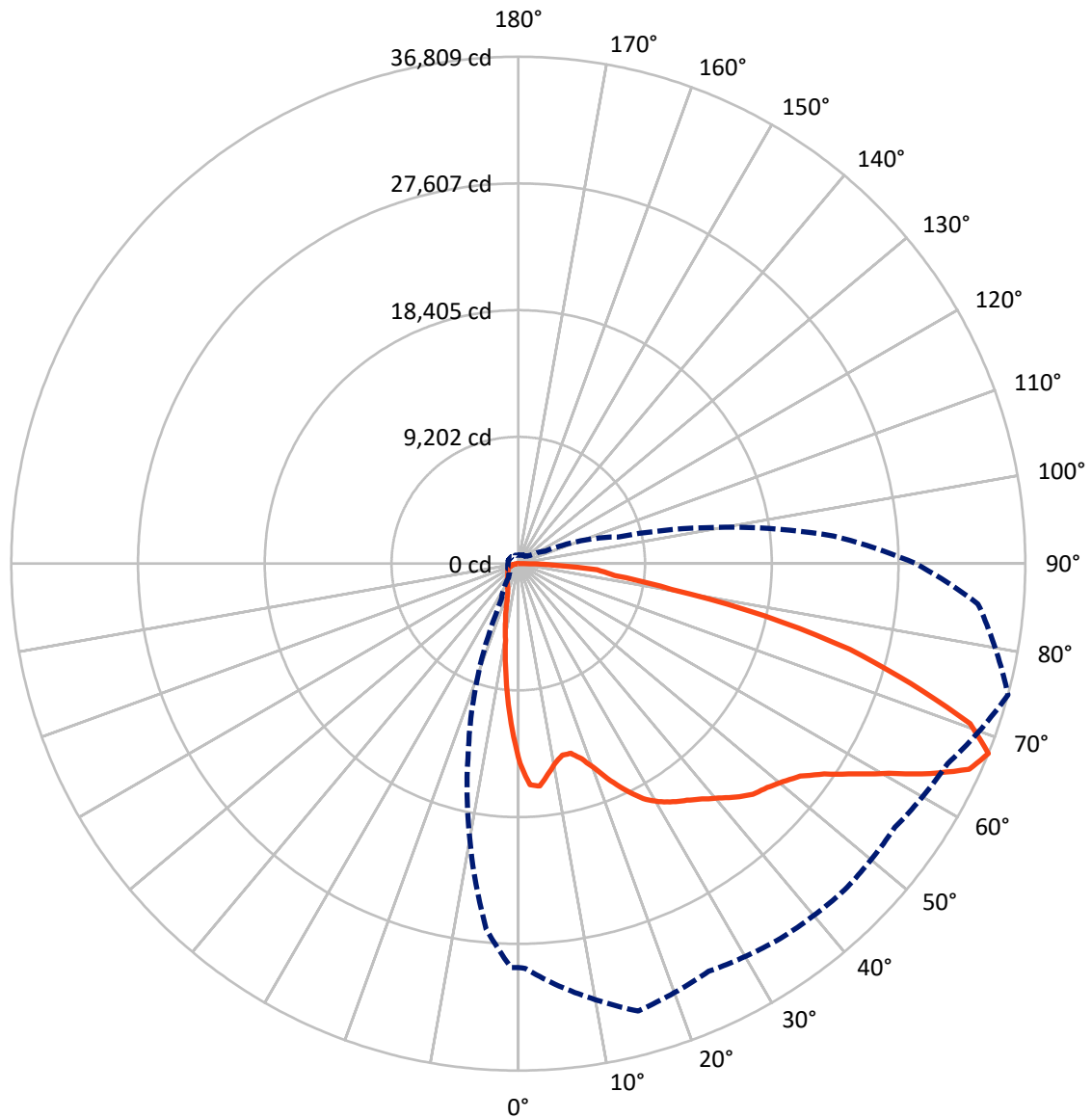
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.6 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	7850.2	0.0	7850.2
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	38594.8	0.0	38594.8
	% Fixture	83.1	0.0	83.1
Total	Lumens	46445.0	0.0	46445.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1100.6	2.4
10°-20°	2295.3	4.9
20°-30°	3303.0	7.1
30°-40°	4757.2	10.2
40°-50°	6682.6	14.4
50°-60°	9319.8	20.1
60°-70°	11080.7	23.9
70°-80°	6525.9	14.1
80°-90°	1380.0	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°	46445.0	100.0
0°-180°	46445.0	100.0



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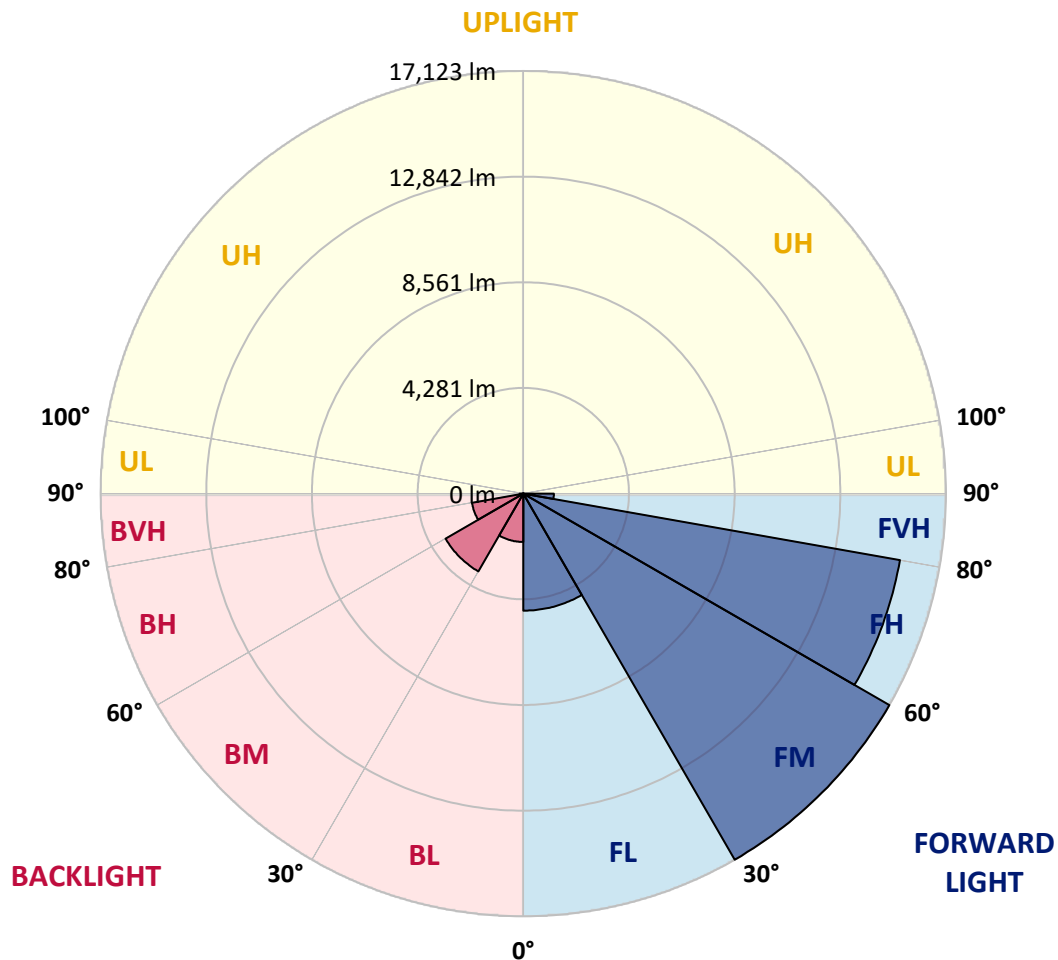
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4740.8	10.2			
FM	(30°-60°)	17122.6	36.9			
FH	(60°-80°)	15494.2	33.4			G5
FVH	(80°-90°)	1237.2	2.7			G5
BL	(0°-30°)	1958.1	4.2	B3/2500		
BM	(30°-60°)	3637.0	7.8	B3/5000		
BH	(60°-80°)	2112.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	142.7	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°	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5
2.5°	15645.3	15666.1	15800.1	16190.3	16458.4	16556.6	16625.1	16497.1	16372.0	16068.2	15609.5
5°	15597.6	15719.7	16068.2	16943.8	17634.8	17932.6	18022.0	17637.8	17003.4	16223.1	15284.9
7.5°	14686.2	14850.0	15386.2	16854.5	18072.6	18769.6	18677.2	17983.3	16839.6	15448.7	14138.2
10°	13605.1	13786.8	14433.1	16208.2	17777.8	18736.8	18736.8	17890.9	16372.0	14719.0	13209.0
12.5°	12747.3	12937.9	13676.6	15544.0	17164.2	18072.6	18224.5	17497.8	16035.4	14257.4	12598.4
15°	12464.4	12649.0	13444.3	15141.9	16514.9	17068.9	17119.6	16881.3	15871.6	14290.1	12571.6
17.5°	12815.8	13054.1	13858.3	15261.1	15919.3	15952.0	15990.8	16178.4	15889.5	14888.8	13113.7
20°	13831.5	14087.6	14927.5	15645.3	15398.1	15058.5	15079.4	15561.9	16101.0	15877.6	14409.3
22.5°	15296.8	15520.2	16380.9	16321.4	15177.7	14477.8	14331.8	15004.9	16413.7	17110.6	15788.2
25°	16878.3	17140.4	18129.2	17325.1	15240.2	14132.3	14039.9	14677.3	16738.3	18263.2	17381.6
27.5°	18689.1	18945.3	19725.6	18337.7	15567.8	14105.5	13995.3	14647.5	17030.2	19329.5	18903.6
30°	20035.4	20270.6	20800.8	19189.5	15969.9	14284.2	14147.2	14882.8	17280.4	20059.2	20386.8
32.5°	21092.7	21336.9	21625.8	19719.6	16500.1	14608.8	14355.6	15311.7	17608.0	20616.1	21485.8
35°	22194.7	22483.6	22462.7	20190.2	16994.5	14984.1	14736.9	15931.2	18123.3	21101.6	22879.7
37.5°	23591.5	23707.7	23558.7	20613.2	17587.2	15660.2	15523.2	16851.5	18855.9	21688.3	24508.8
40°	25009.2	25241.5	24476.1	21125.4	18307.9	16931.9	16917.0	18212.6	19725.6	22376.3	26087.4
42.5°	26224.4	26420.9	25333.8	21572.2	19180.6	18483.6	18596.8	20038.3	20866.3	23174.5	27356.1
45°	27138.7	27314.4	26126.1	22004.0	20330.2	20276.6	20943.8	21995.1	22304.9	23892.3	28100.7
47.5°	27916.1	28085.8	26677.1	22659.3	21750.9	22418.0	23579.6	24035.3	23534.9	24303.3	28934.7
50°	28571.3	28621.9	27055.3	23439.6	23514.1	25042.0	26167.8	26462.6	24750.1	24893.0	29658.4
52.5°	29253.3	29187.8	27707.6	24422.5	25420.2	27531.9	28350.9	28657.7	25914.6	25619.8	30712.7
55°	30781.2	30843.8	29170.0	25661.5	27347.2	29977.1	31055.2	30760.4	27204.2	26957.0	32053.0
57.5°	32627.8	32574.2	31228.0	27600.4	29309.9	32252.5	33056.7	32583.1	28925.7	28794.7	33411.1
60°	33345.6	33417.1	32949.5	29685.2	31245.9	34245.1	35067.1	34331.4	30989.7	30930.2	34435.7
62.5°	32624.8	33026.9	33342.6	31540.7	32895.9	35710.4	36526.5	35686.6	33143.1	33574.9	35153.5
65°	31189.3	31275.6	32350.8	33113.3	33691.1	35951.7	36377.6	35930.8	34942.0	35984.4	35120.7
67.5°	29324.8	29399.3	30659.1	33628.5	32666.5	33211.6	33509.4	33378.4	34385.0	36809.4	33503.4
70°	27549.7	27490.2	28821.5	32315.1	28437.3	27609.3	27856.5	27445.5	29670.3	34793.1	30331.5
72.5°	24094.8	24309.3	25738.9	28663.6	22516.3	21170.1	21709.2	20645.9	22820.1	29798.4	24619.0
75°	18873.8	18924.4	21310.1	24056.1	16985.5	14862.0	15591.7	15147.9	17479.9	24857.3	17000.4
77.5°	13069.0	12955.8	15520.2	18373.4	12112.9	10879.9	10891.8	10680.4	12205.3	18302.0	11550.0
80°	8300.7	8127.9	9715.4	11350.5	8324.5	8905.3	8613.4	8604.5	7946.2	11290.9	6984.2
82.5°	4485.4	4676.0	6138.4	7115.3	5971.6	6883.0	6308.1	6123.5	5453.4	7067.6	4467.5
85°	2043.1	2221.8	3273.2	4839.8	4536.0	4586.7	3064.7	3615.7	4512.2	5739.3	2385.7
87.5°	199.5	256.1	676.1	2284.4	1548.7	1221.1	455.7	878.6	1134.8	2040.2	190.6
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°	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5
2.5°	15421.9	15267.0	14739.8	14305.0	13843.4	13491.9	13033.3	12726.5	12515.0	12196.3	12157.6
5°	14713.0	14334.8	13417.5	12482.3	11675.1	11067.5	10451.0	9885.1	9551.6	9447.3	9313.3
7.5°	13518.7	12881.4	11701.9	10629.7	9703.5	8798.0	8101.1	7606.7	7276.1	7082.5	6850.2
10°	12535.9	11797.2	10361.7	9048.2	8285.8	7722.9	7109.3	6579.2	6171.1	5822.7	5632.1
12.5°	11874.7	11040.7	9426.5	8360.2	7770.5	7171.9	6454.1	5858.4	5256.8	4860.7	4690.9
15°	11675.1	10793.5	9137.6	8017.7	7171.9	6388.6	5584.4	4807.1	4211.4	3836.1	3711.0
17.5°	12163.6	11097.3	9134.6	7562.0	6469.0	5533.8	4503.3	3773.6	3163.0	2883.0	2793.7
20°	13075.0	11681.1	9161.4	7112.3	5706.5	4390.1	3276.2	2677.5	2385.7	2266.5	2221.8
22.5°	14346.7	12571.6	9241.8	6668.5	4872.6	3371.5	2454.2	2150.4	2046.1	2025.3	2016.3
25°	15913.3	13673.6	9512.8	6269.4	4169.7	2573.3	2052.1	1915.1	1855.5	1834.7	1831.7
27.5°	17354.8	15097.3	9840.5	5926.9	3490.6	2218.9	1855.5	1739.4	1679.8	1676.8	1682.8
30°	18656.4	16288.6	10114.5	5542.7	2975.4	1971.7	1727.4	1611.3	1554.7	1551.7	1569.6
32.5°	19782.2	17268.5	10317.0	5164.5	2689.4	1819.8	1611.3	1486.2	1438.5	1429.6	1438.5
35°	20985.4	18245.4	10224.7	4869.6	2525.6	1694.7	1524.9	1402.8	1346.2	1319.4	1319.4
37.5°	22358.5	19252.0	10066.8	4625.4	2451.2	1590.4	1450.5	1331.3	1274.7	1247.9	1244.9
40°	23856.6	20258.7	9849.4	4408.0	2376.7	1527.9	1399.8	1274.7	1206.2	1179.4	1173.5
42.5°	25179.0	21119.5	9670.7	4265.0	2254.6	1539.8	1355.1	1233.0	1146.7	1110.9	1107.9
45°	26328.6	21986.2	9637.9	4181.6	2153.3	1521.9	1343.2	1200.3	1099.0	1060.3	1054.3
47.5°	27228.1	22888.6	9825.6	4133.9	2043.1	1426.6	1420.7	1179.4	1057.3	1015.6	1009.7
50°	28324.1	24169.3	10254.5	4035.7	1941.9	1337.3	1501.1	1176.4	1024.6	970.9	956.1
52.5°	29783.5	25837.2	10835.2	3859.9	1795.9	1253.9	1432.6	1176.4	985.8	932.2	914.4
55°	31990.4	27963.7	11404.1	3612.7	1590.4	1143.7	1292.6	1140.7	929.2	881.6	869.7
57.5°	33452.8	29518.4	11767.5	3270.2	1334.3	1063.3	1113.9	1084.1	872.7	822.0	822.0
60°	33527.3	29935.4	11594.7	2838.4	1173.5	988.8	968.0	1093.1	822.0	768.4	762.5
62.5°	32669.5	28913.8	10695.3	2451.2	1087.1	908.4	875.6	959.0	771.4	717.8	708.8
65°	31329.3	26307.8	9134.6	2266.5	1039.4	836.9	789.3	786.3	717.8	667.2	655.2
67.5°	28866.2	22989.9	7505.4	2159.3	1015.6	756.5	711.8	696.9	655.2	613.5	607.6
70°	25235.6	19255.0	6019.2	2114.6	1003.7	673.1	637.4	619.5	583.8	551.0	548.0
72.5°	19633.3	15618.5	4967.9	2084.8	997.7	595.7	557.0	533.1	512.3	482.5	482.5
75°	14102.5	11490.5	3791.4	1879.3	923.3	512.3	470.6	455.7	425.9	402.1	408.0
77.5°	8890.4	7737.8	2495.9	1382.0	714.8	411.0	375.3	366.3	342.5	309.7	330.6
80°	6004.4	5441.4	1456.4	869.7	449.7	300.8	288.9	285.9	259.1	223.4	226.4
82.5°	4086.3	4008.9	756.5	494.4	259.1	175.7	169.8	175.7	145.9	119.1	119.1
85°	1596.4	2180.2	357.4	193.6	83.4	26.8	38.7	41.7	23.8	11.9	14.9
87.5°	29.8	223.4	8.9	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°	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5
2.5°	12098.1	12071.2	12115.9	11925.3	11964.0	12035.5	12071.2	12092.1	12387.0	12318.5	12506.1
5°	9438.4	9411.6	9584.3	9608.2	9697.5	9679.6	9766.0	9786.9	9894.1	9932.8	10194.9
7.5°	6865.1	6981.3	7177.8	7279.1	7431.0	7478.6	7434.0	7544.2	7320.8	7481.6	7529.3
10°	5515.9	5375.9	5292.5	5524.8	5554.6	5775.0	5685.7	5614.2	5745.2	5751.2	5876.3
12.5°	4592.6	4291.8	4092.3	4157.8	4229.3	4324.6	4339.5	4482.4	4577.7	4667.1	4741.5
15°	3600.8	3496.6	3314.9	3225.6	3326.8	3365.5	3457.9	3577.0	3678.3	3705.1	3806.3
17.5°	2763.9	2781.8	2752.0	2698.4	2760.9	2790.7	2796.7	2799.6	2826.5	2808.6	2957.5
20°	2224.8	2287.4	2361.8	2373.7	2394.6	2409.5	2382.7	2281.4	2284.4	2346.9	2394.6
22.5°	2013.4	2025.3	2108.7	2135.5	2201.0	2174.2	2096.8	2049.1	2043.1	2058.0	2081.9
25°	1846.6	1864.4	1924.0	1965.7	2016.3	1968.7	1912.1	1867.4	1861.5	1876.4	1900.2
27.5°	1697.7	1724.5	1778.1	1819.8	1867.4	1822.7	1769.1	1730.4	1727.4	1724.5	1739.4
30°	1578.5	1608.3	1647.0	1694.7	1727.4	1688.7	1638.1	1617.2	1614.3	1608.3	1614.3
32.5°	1459.4	1507.0	1545.8	1569.6	1602.4	1572.6	1533.8	1521.9	1501.1	1483.2	1474.3
35°	1325.4	1376.0	1435.6	1465.3	1498.1	1468.3	1441.5	1390.9	1355.1	1352.2	1358.1
37.5°	1247.9	1268.8	1316.4	1367.1	1399.8	1384.9	1334.3	1283.7	1274.7	1274.7	1280.7
40°	1179.4	1188.4	1209.2	1274.7	1334.3	1289.6	1227.1	1212.2	1212.2	1209.2	1212.2
42.5°	1110.9	1119.9	1119.9	1170.5	1265.8	1194.3	1146.7	1146.7	1146.7	1149.6	1158.6
45°	1048.4	1051.4	1048.4	1084.1	1173.5	1113.9	1081.1	1090.1	1096.0	1102.0	1107.9
47.5°	994.8	997.7	994.8	1024.6	1069.2	1045.4	1027.5	1039.4	1051.4	1060.3	1066.2
50°	947.1	944.1	950.1	968.0	988.8	994.8	982.9	1000.7	1006.7	1018.6	1033.5
52.5°	905.4	902.4	908.4	917.3	947.1	947.1	947.1	962.0	973.9	985.8	1006.7
55°	857.8	860.7	869.7	881.6	920.3	914.4	917.3	929.2	941.2	959.0	970.9
57.5°	813.1	819.0	831.0	848.8	887.5	884.6	887.5	893.5	908.4	917.3	929.2
60°	762.5	774.4	789.3	801.2	839.9	836.9	851.8	863.7	872.7	872.7	878.6
62.5°	711.8	729.7	744.6	753.5	795.2	798.2	819.0	828.0	833.9	828.0	836.9
65°	661.2	688.0	694.0	705.9	747.6	750.5	774.4	795.2	789.3	783.3	798.2
67.5°	610.6	643.3	640.3	655.2	696.9	702.9	723.7	759.5	747.6	741.6	753.5
70°	554.0	577.8	580.8	589.7	646.3	637.4	670.1	702.9	694.0	696.9	696.9
72.5°	491.4	512.3	512.3	530.1	589.7	574.8	601.6	637.4	637.4	634.4	634.4
75°	417.0	428.9	440.8	467.6	530.1	512.3	530.1	562.9	568.9	562.9	562.9
77.5°	336.6	354.4	360.4	396.1	440.8	437.8	455.7	470.6	482.5	476.5	476.5
80°	238.3	256.1	280.0	318.7	345.5	354.4	363.4	375.3	381.2	381.2	387.2
82.5°	134.0	160.8	181.7	220.4	232.3	277.0	274.0	282.9	274.0	241.2	268.1
85°	29.8	56.6	80.4	101.3	116.2	160.8	169.8	190.6	157.9	145.9	145.9
87.5°	0.0	0.0	0.0	0.0	0.0	23.8	47.7	65.5	56.6	47.7	47.7
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°	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5	14510.5
2.5°	12663.9	12923.1	13235.8	13774.9	14153.1	14561.1	14972.2	15410.0	15526.1	15645.3
5°	10266.4	10775.7	11052.7	11776.4	12535.9	13500.9	14290.1	15153.8	15514.2	15597.6
7.5°	7776.5	8122.0	8848.7	9581.3	10522.5	11535.1	12744.4	14090.6	14510.5	14686.2
10°	6165.2	6635.8	7273.1	8059.4	8884.4	9974.5	11338.6	12911.1	13506.8	13605.1
12.5°	5247.9	5772.0	6466.0	7297.0	8077.3	8899.3	10275.3	11898.5	12535.9	12747.3
15°	4196.5	4830.9	5632.1	6507.7	7356.5	8256.0	9649.9	11481.5	12217.2	12464.4
17.5°	3297.0	3809.3	4676.0	5626.1	6632.8	7770.5	9518.8	11681.1	12586.5	12815.8
20°	2522.7	2889.0	3618.7	4622.4	5801.8	7291.0	9551.6	12434.6	13518.7	13831.5
22.5°	2180.2	2367.8	2811.6	3767.6	5087.0	6874.0	9685.6	13468.1	14775.6	15296.8
25°	1974.6	2072.9	2323.1	2948.6	4405.0	6469.0	9992.4	14859.0	16532.8	16878.3
27.5°	1798.9	1870.4	2025.3	2475.0	3785.5	6093.7	10349.8	16401.8	18173.9	18689.1
30°	1632.1	1727.4	1873.4	2198.0	3389.4	5751.2	10799.5	17652.7	19555.8	20035.4
32.5°	1504.1	1599.4	1733.4	2004.4	3052.8	5390.8	11067.5	18751.7	20684.6	21092.7
35°	1399.8	1480.2	1620.2	1849.6	2796.7	5116.8	11013.9	19624.3	21777.7	22194.7
37.5°	1325.4	1393.9	1533.8	1703.6	2603.1	4830.9	10987.1	20777.0	23109.0	23591.5
40°	1256.9	1328.3	1456.4	1608.3	2409.5	4494.3	11002.0	21920.6	24526.7	25009.2
42.5°	1203.3	1283.7	1387.9	1581.5	2209.9	4223.3	11002.0	22915.4	25759.7	26224.4
45°	1158.6	1244.9	1346.2	1578.5	2052.1	4017.8	10927.6	23770.2	26742.6	27138.7
47.5°	1119.9	1215.2	1361.1	1524.9	2013.4	3868.9	10862.0	24455.2	27543.8	27916.1
50°	1093.1	1206.2	1447.5	1462.4	2025.3	3824.2	11177.7	25318.9	28249.6	28571.3
52.5°	1072.2	1209.2	1444.5	1370.0	2004.4	3854.0	11836.0	26668.1	29229.5	29253.3
55°	1030.5	1206.2	1370.0	1265.8	1918.1	3904.6	12681.8	28627.9	30763.4	30781.2
57.5°	988.8	1173.5	1271.8	1176.4	1742.3	3904.6	13700.4	30483.4	32612.9	32627.8
60°	947.1	1221.1	1116.9	1099.0	1513.0	3833.1	14775.6	31299.5	33193.7	33345.6
62.5°	905.4	1230.1	997.7	1030.5	1346.2	3660.4	15576.8	30397.0	32407.4	32624.8
65°	857.8	991.8	920.3	959.0	1259.8	3371.5	15323.6	28744.0	30930.2	31189.3
67.5°	801.2	839.9	836.9	884.6	1230.1	2945.6	13989.3	26653.2	29339.7	29324.8
70°	732.7	753.5	762.5	813.1	1173.5	2615.0	11657.3	23940.0	27216.2	27549.7
72.5°	661.2	679.1	688.0	732.7	1116.9	2427.4	9048.2	20202.1	23573.6	24094.8
75°	583.8	595.7	607.6	646.3	1057.3	2150.4	6445.1	15421.9	18054.8	18873.8
77.5°	503.3	503.3	518.2	557.0	890.5	1775.1	4324.6	10817.4	12232.1	13069.0
80°	408.0	411.0	405.1	446.8	655.2	1215.2	2457.1	7225.5	8139.8	8300.7
82.5°	312.7	303.8	306.8	327.6	488.4	828.0	1310.5	4488.4	4574.7	4485.4
85°	196.6	196.6	190.6	214.4	312.7	431.9	714.8	2749.0	2147.4	2043.1
87.5°	80.4	65.5	74.5	86.4	148.9	175.7	280.0	565.9	217.4	199.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)