

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: STREETWORKS

Report Number: P268864

Luminaire Tested: **GAN-AF-09-LED-U-T2R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-T2R-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52837.1 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 575
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: 28.75 FT

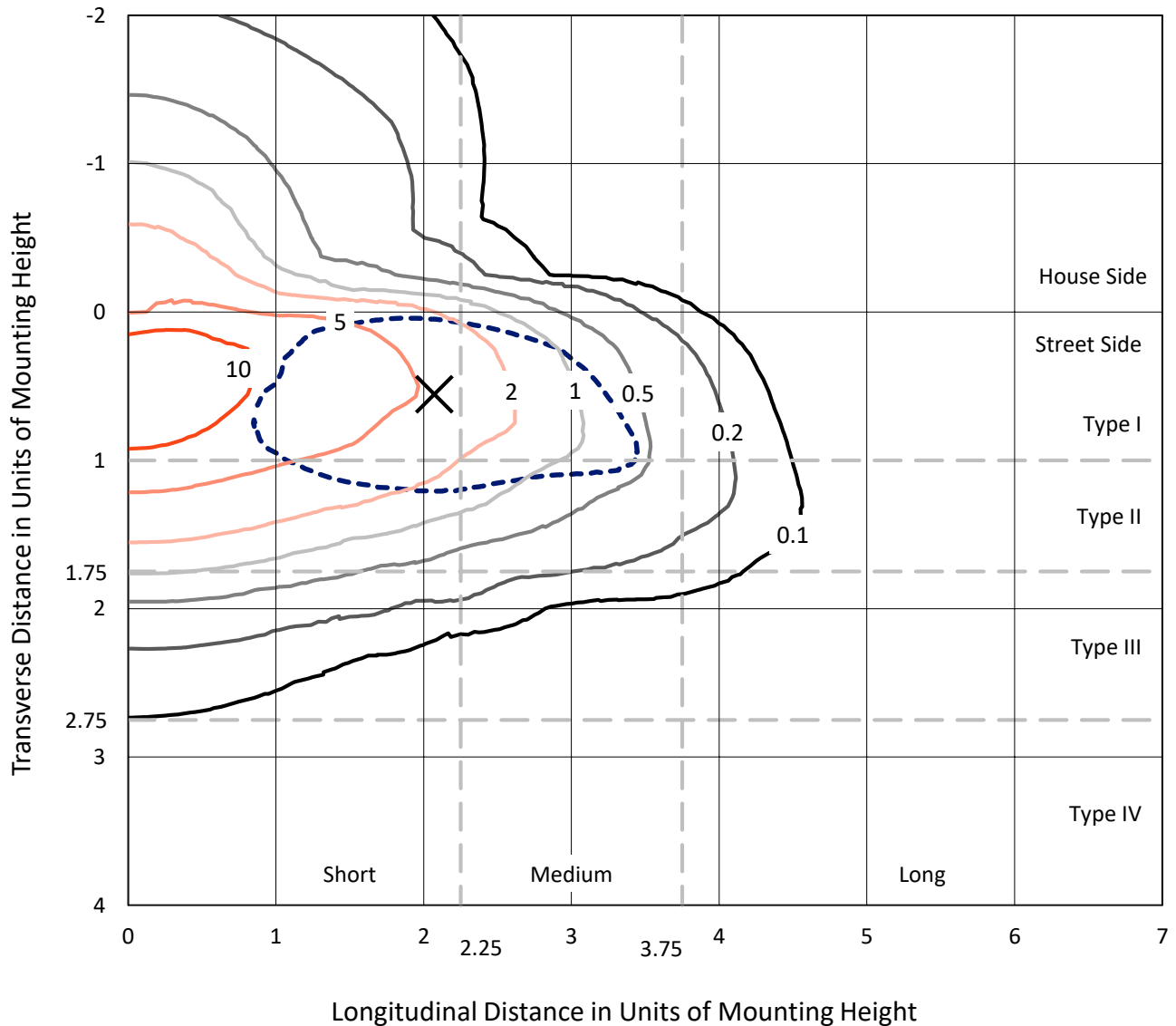


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

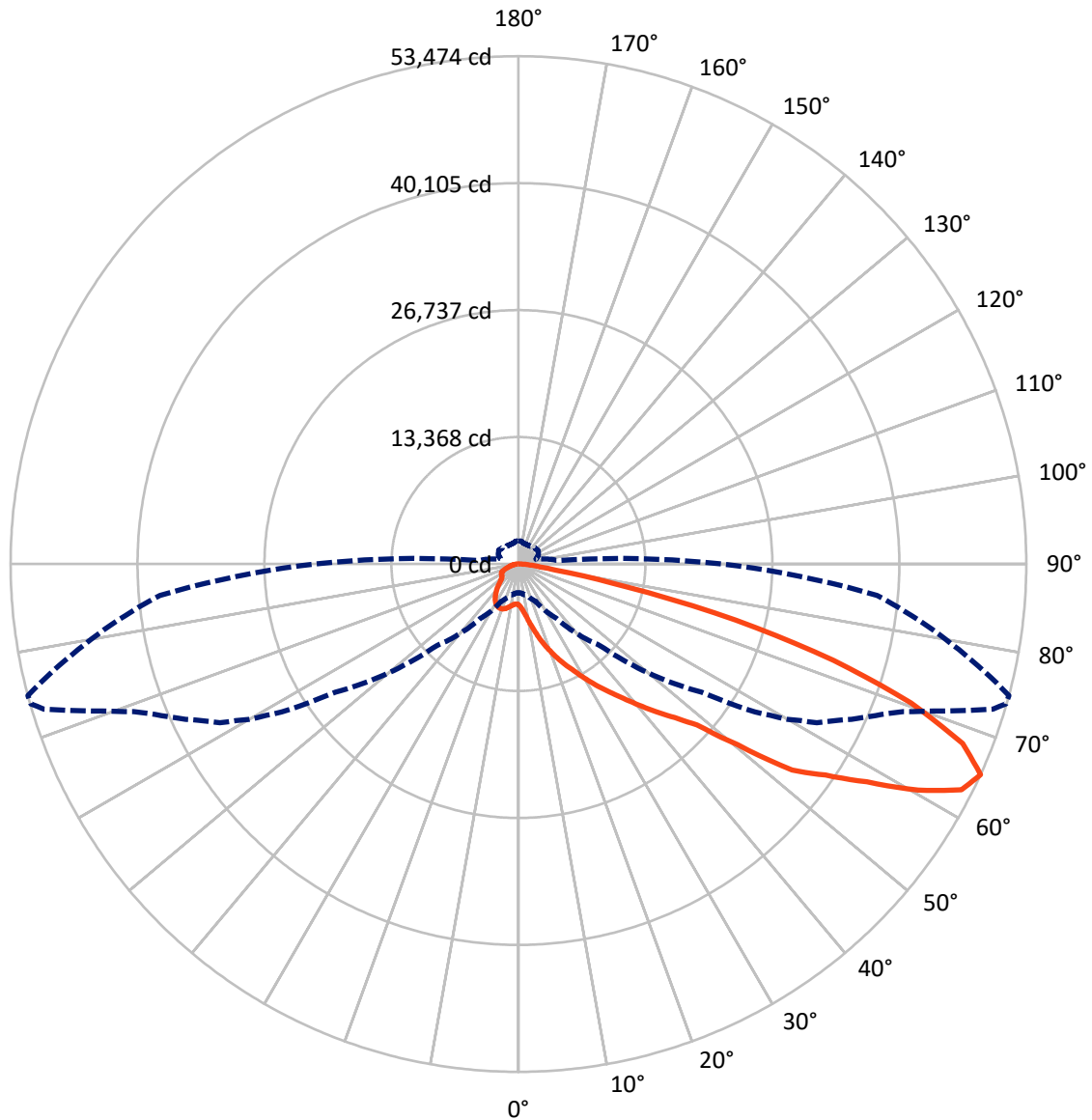


Based on 30 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8146.2	0.0	8146.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	44690.8	0.0	44690.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	52837.1	0.0	52837.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.8	1.0
10°-20°	2073.8	3.9
20°-30°	4254.7	8.1
30°-40°	7158.4	13.5
40°-50°	9890.8	18.7
50°-60°	12346.7	23.4
60°-70°	11110.7	21.0
70°-80°	4657.5	8.8
80°-90°	813.7	1.5
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°	52837.1	100.0
0°-180°	52837.1	100.0



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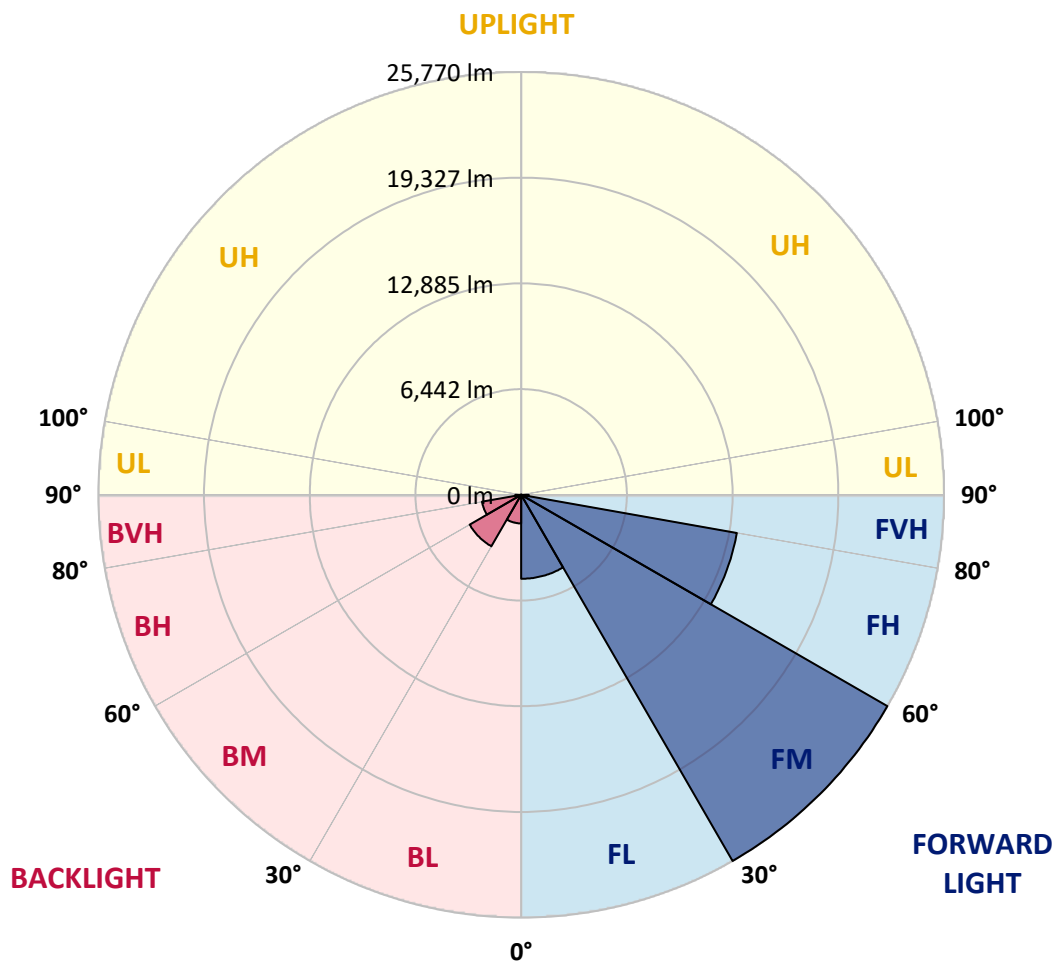
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5117.1	9.7			
FM	(30°-60°)	25769.9	48.8			
FH	(60°-80°)	13346.5	25.3			G5
FVH	(80°-90°)	457.4	0.9			G3/500
BL	(0°-30°)	1742.1	3.3	B3/2500		
BM	(30°-60°)	3626.0	6.9	B3/5000		
BH	(60°-80°)	2421.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	356.3	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0
2.5°	5452.0	5391.8	5406.9	5306.8	5184.4	5024.3	4846.7	4844.2	4846.7	4829.2	4764.3
5°	7560.1	7487.6	7460.2	7235.0	6904.9	6434.7	5924.6	5869.5	5847.1	5789.5	5656.9
7.5°	9098.3	9058.1	9015.7	8845.6	8545.5	8020.3	7335.1	7217.5	7105.1	7077.4	6927.5
10°	10091.1	10081.0	9991.0	9946.0	9758.5	9303.2	8635.5	8522.9	8400.5	8358.0	8200.4
12.5°	10876.4	10873.9	10831.4	10843.8	10681.2	10351.2	9776.0	9673.4	9583.4	9453.4	9340.8
15°	11419.1	11421.6	11484.1	11554.1	11529.0	11306.4	10766.4	10721.4	10643.7	10553.7	10421.1
17.5°	11864.3	11876.8	11941.8	12069.3	12206.8	12189.3	11761.7	11724.1	11656.6	11534.1	11464.1
20°	12869.6	12917.1	12792.0	12792.0	12807.0	12874.6	12669.4	12639.5	12544.4	12479.4	12424.4
22.5°	14567.6	14622.7	14340.2	14052.5	13769.8	13564.9	13359.8	13397.2	13332.3	13287.2	13254.8
25°	16773.4	16815.9	16358.2	15873.1	15298.0	14547.6	14040.0	14017.5	13982.5	13955.0	13940.0
27.5°	18849.1	18866.7	18434.1	17723.7	17056.1	15978.2	14730.2	14702.6	14660.2	14607.7	14562.7
30°	20624.8	20619.9	20174.7	19497.0	18781.7	17588.8	15778.1	15693.1	15568.0	15425.4	15315.5
32.5°	22162.9	22155.3	21667.7	20965.0	20214.6	19184.4	17213.6	17038.5	16843.5	16565.9	16398.3
35°	23373.3	23368.2	22908.1	22175.4	21315.1	20687.3	18859.1	18644.1	18396.5	18024.0	17766.3
37.5°	23831.0	23831.0	23573.3	23073.1	22312.9	21882.7	20687.3	20427.3	20162.2	19739.4	19449.5
40°	23563.4	23568.3	23623.4	23530.8	23160.7	22830.7	22392.9	22237.9	22010.4	21630.2	21327.6
42.5°	22665.6	22693.1	23058.1	23505.8	23690.9	23638.4	23906.0	23835.9	23675.9	23383.3	23143.3
45°	21527.6	21612.7	22012.7	22858.1	23838.4	24336.2	25173.9	25181.5	25151.5	24993.8	24808.9
47.5°	19964.7	20084.7	20612.2	21755.2	23493.4	25013.8	26461.9	26529.5	26591.9	26489.4	26404.4
50°	17888.8	18031.4	18821.6	20337.2	22790.5	25716.6	28895.2	29200.3	29485.4	29450.5	29508.0
52.5°	15665.5	15833.2	16801.0	18489.0	21582.7	25879.2	30450.7	30948.4	31446.2	31853.8	32286.4
55°	13659.8	13569.7	14537.7	16315.7	19597.0	25146.4	31848.8	32449.0	33004.2	33504.4	34019.5
57.5°	10941.4	11088.9	12059.2	13817.4	16968.5	23078.1	32811.6	33689.4	34487.2	35315.0	36045.3
60°	7997.8	8145.4	9198.3	10983.8	14115.0	19942.1	32076.4	33406.9	34684.7	35952.8	36943.1
62.5°	4829.2	4939.2	5867.1	7567.7	10883.9	16223.3	28800.2	30545.8	32426.5	33942.1	35460.1
65°	3006.1	3068.6	3411.3	4346.5	6990.0	12111.8	23530.8	25434.0	27459.7	29382.9	30961.1
67.5°	2460.8	2483.4	2545.8	2745.9	3838.8	7897.8	17513.7	19199.4	21027.4	22888.2	24643.7
70°	2213.2	2198.3	2198.3	2210.8	2460.8	4246.5	11466.5	12564.5	14087.5	15705.5	17311.1
72.5°	1998.2	1983.2	1955.7	1918.2	2008.3	2590.9	5927.0	6754.9	7852.9	9290.8	10828.9
75°	1795.6	1775.6	1743.2	1695.6	1758.2	1955.7	2846.0	3193.7	3728.9	4494.1	5351.9
77.5°	1585.6	1560.5	1530.5	1495.5	1575.5	1520.6	1668.2	1793.1	1998.2	2243.2	2565.9
80°	1347.9	1325.4	1315.5	1298.1	1393.0	1157.9	1177.9	1255.4	1375.5	1508.1	1658.1
82.5°	1055.4	1055.4	1095.5	1102.8	1208.0	832.8	880.2	947.8	1010.4	1080.4	1150.4
85°	695.3	700.3	835.3	887.9	952.8	560.3	660.3	682.7	732.7	772.8	802.7
87.5°	217.6	235.0	510.1	565.3	547.6	317.6	405.1	415.1	450.2	477.7	502.7
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0
2.5°	4764.3	4734.2	4706.7	4704.2	4684.1	4656.6	4666.6	4624.1	4626.6	4604.2	4579.1
5°	5602.0	5582.0	5481.9	5454.4	5379.4	5331.9	5324.3	5224.4	5211.8	5154.4	5091.9
7.5°	6807.4	6742.4	6602.4	6534.8	6407.3	6312.2	6267.2	6134.6	6069.7	5919.7	5852.1
10°	8070.4	7987.8	7815.3	7720.3	7597.7	7445.2	7362.6	7170.0	7095.1	6957.5	6792.4
12.5°	9240.8	9158.2	8980.6	8908.1	8745.5	8583.0	8493.0	8275.5	8177.9	7957.8	7827.8
15°	10323.6	10241.1	10086.1	10011.0	9848.5	9716.0	9596.0	9380.8	9265.7	9060.8	8890.6
17.5°	11374.0	11286.6	11151.5	11083.9	10926.4	10791.2	10661.3	10458.6	10341.2	10136.0	9983.6
20°	12349.4	12284.3	12186.9	12096.8	11939.3	11816.7	11661.6	11486.5	11316.5	11166.4	11021.5
22.5°	13199.7	13174.7	13069.6	13029.6	12894.6	12789.4	12654.6	12481.9	12359.4	12169.2	12034.2
25°	13932.4	13924.9	13875.0	13862.5	13767.3	13667.4	13637.3	13494.8	13382.2	13214.6	13074.7
27.5°	14562.7	14570.1	14557.7	14592.6	14567.6	14522.7	14525.1	14477.7	14412.5	14272.6	14150.0
30°	15262.9	15222.9	15245.5	15295.4	15310.4	15315.5	15397.9	15425.4	15420.5	15327.9	15268.0
32.5°	16253.3	16158.3	16070.7	16063.2	16113.2	16133.2	16273.2	16345.7	16408.4	16430.8	16440.8
35°	17516.2	17326.1	17143.6	17046.1	16961.0	16983.5	17083.5	17201.0	17338.6	17433.6	17546.2
37.5°	19106.8	18874.2	18551.5	18321.6	18264.0	18138.9	18204.0	18296.5	18431.6	18579.0	18774.1
40°	21034.9	20682.3	20319.8	20014.5	19849.6	19619.4	19616.9	19599.5	19682.0	19819.6	20094.6
42.5°	22890.6	22578.0	22192.8	21872.8	21657.6	21350.0	21287.6	21125.0	21162.5	21282.6	21550.1
45°	24628.7	24371.1	24136.1	23765.9	23583.4	23250.7	23145.6	22953.1	22845.7	22900.6	23168.2
47.5°	26311.8	26146.7	25901.6	25661.6	25521.6	25224.0	25088.9	24951.3	24813.8	24808.9	25088.9
50°	29593.0	29505.5	29215.3	28965.3	29032.9	28667.7	28690.2	28320.1	28487.6	28507.6	29095.4
52.5°	32676.6	32981.7	33196.8	33459.3	33629.4	33661.9	33774.5	33942.1	34144.5	34544.7	35090.0
55°	34442.3	34824.9	35047.5	35247.4	35577.6	35647.6	35835.1	36057.7	36235.3	36685.5	37148.1
57.5°	36540.4	37250.7	37595.9	37913.4	38358.6	38528.7	38841.3	39083.8	39314.0	39846.7	40406.8
60°	37833.5	38698.8	39401.5	39904.1	40461.8	40862.0	41334.7	41714.9	42255.1	42892.7	43728.1
62.5°	36805.5	38076.0	39008.9	39871.6	40629.4	41394.6	42072.4	42782.7	43603.0	44568.2	45863.8
65°	32711.6	34004.6	35602.6	36498.0	37500.9	38681.2	39711.6	40862.0	41980.0	43385.4	45301.0
67.5°	26334.4	27837.3	29633.0	30535.8	31688.7	33006.8	34162.2	35567.6	36873.1	38576.2	40944.6
70°	18981.7	20924.8	22435.4	23378.3	24723.8	26081.7	27197.2	28832.7	29913.1	31658.7	34107.0
72.5°	12019.2	13552.3	15403.0	16590.8	17786.4	19161.7	20302.2	21712.8	22720.6	24311.1	26529.5
75°	6462.2	7592.7	9218.2	10346.1	11626.7	12802.0	14137.5	15082.8	15828.1	17086.0	18886.8
77.5°	3028.5	3716.3	4539.1	5406.9	6274.8	7180.1	8060.3	8825.7	9145.7	9866.1	10928.9
80°	1838.1	2060.7	2300.7	2568.4	2931.0	3223.7	3611.2	3891.4	3911.4	4139.0	4464.0
82.5°	1228.0	1310.4	1383.0	1450.6	1543.1	1615.6	1698.1	1795.6	1835.6	1888.1	1993.2
85°	837.8	877.9	892.8	935.3	925.3	950.3	982.8	1015.4	1033.0	1030.4	1077.8
87.5°	515.2	535.2	545.2	555.2	547.6	537.6	552.6	570.2	575.3	560.3	565.3
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0
2.5°	4584.1	4561.7	4539.1	4524.1	4519.2	4386.6	4329.0	4291.6	4211.6	4146.4	4093.9
5°	5056.7	5009.3	4971.8	4926.8	4901.7	4566.7	4444.1	4359.0	4219.0	4136.4	4061.4
7.5°	5817.1	5684.6	5607.0	5519.5	5444.4	4839.2	4636.6	4504.1	4309.0	4198.9	4114.0
10°	6679.8	6542.4	6419.7	6284.7	6167.1	5201.8	4906.7	4701.6	4444.1	4301.5	4188.9
12.5°	7642.7	7507.7	7352.5	7180.1	7030.0	5661.9	5251.9	4959.3	4606.7	4416.5	4259.0
15°	8780.7	8543.1	8355.5	8155.4	7980.4	6212.1	5654.6	5249.3	4779.3	4521.6	4311.5
17.5°	9838.4	9588.4	9333.3	9158.2	8955.7	6830.0	6059.6	5544.5	4921.8	4589.1	4321.6
20°	10871.4	10598.7	10378.7	10143.7	9931.0	7470.1	6492.3	5804.6	5014.2	4591.6	4259.0
22.5°	11781.7	11611.6	11366.6	11111.5	10896.4	8110.3	6897.5	6024.7	5049.4	4534.1	4149.0
25°	12817.0	12636.9	12336.9	12121.8	11881.7	8763.1	7295.0	6194.7	5029.3	4426.6	3979.0
27.5°	13922.4	13722.4	13414.7	13189.6	12899.7	9440.8	7660.1	6317.2	4954.2	4251.5	3751.3
30°	15075.4	14892.8	14590.2	14362.6	14070.1	10158.7	8067.9	6399.7	4804.1	4009.0	3486.2
32.5°	16313.3	16160.8	15860.7	15623.1	15310.4	10936.3	8448.0	6424.8	4576.7	3721.3	3206.1
35°	17488.7	17383.7	17131.0	16908.4	16583.4	11671.7	8850.6	6412.3	4306.6	3406.3	2951.0
37.5°	18811.6	18749.2	18624.1	18341.6	17943.9	12669.4	9333.3	6359.8	3976.3	3093.7	2756.0
40°	20222.1	20227.1	20092.1	19899.6	19529.4	13879.9	9908.6	6257.2	3616.2	2818.5	2578.4
42.5°	21715.2	21792.7	21727.8	21590.1	21235.0	15100.4	10596.2	6132.2	3266.1	2550.8	2403.3
45°	23425.8	23520.9	23620.9	23418.4	23073.1	16710.9	11501.5	5969.6	2888.5	2328.3	2283.3
47.5°	25398.9	25549.1	25639.1	25641.6	25296.5	18706.7	12972.2	5872.1	2553.4	2178.3	2225.8
50°	29563.0	29610.6	29823.1	30193.2	29928.1	23325.7	15540.5	5812.0	2325.8	2085.8	2183.3
52.5°	35562.6	36085.4	36453.0	36427.9	36067.8	26259.3	16956.0	5501.9	2190.7	2050.7	2163.3
55°	38006.0	38658.6	39338.9	39519.0	39239.0	28762.7	18294.1	5191.8	2125.7	2075.8	2170.8
57.5°	41262.1	42362.5	43295.3	43688.0	43282.9	31966.4	20054.7	5029.3	2105.7	2143.3	2218.3
60°	45066.0	46426.5	47651.9	48357.1	48357.1	35647.6	21880.2	4961.8	2078.1	2243.2	2298.4
62.5°	47509.4	49507.6	51358.2	52391.0	52361.0	38211.1	22690.6	4731.7	2015.6	2313.3	2408.4
65°	47519.4	49895.2	52253.5	53413.9	53473.9	37896.0	21352.6	4178.9	1900.6	2323.3	2518.4
67.5°	43557.9	46091.3	48839.8	50137.8	50437.9	34884.9	18484.1	3436.2	1713.1	2223.2	2558.5
70°	36788.1	39261.4	42067.4	43343.0	43875.6	29738.0	14887.8	2648.5	1473.0	2003.2	2475.9
72.5°	28982.7	31408.7	33361.9	34294.7	34709.8	22730.5	10841.4	2000.7	1208.0	1688.1	2253.3
75°	20519.8	22340.4	23378.3	23585.9	23650.8	13702.3	6587.4	1488.0	995.3	1313.0	1903.1
77.5°	11581.6	12361.8	12276.9	12369.4	11599.2	5289.4	2868.5	1065.4	820.3	997.8	1475.6
80°	4521.6	4661.7	4379.1	4291.6	3936.5	1968.1	1265.4	742.8	655.3	755.2	1033.0
82.5°	1993.2	2058.2	1998.2	2013.2	1925.6	1015.4	757.8	537.6	500.1	552.6	685.2
85°	1097.9	1117.9	1112.9	1145.3	1097.9	405.1	360.1	330.0	350.1	375.1	440.2
87.5°	535.2	540.2	522.6	550.2	532.6	205.1	177.5	187.6	205.1	210.1	210.1
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):

	135°	145°	155°	165°	175°	180°
0°	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0
2.5°	4056.4	4036.4	4038.9	4033.8	4024.0	4024.0
5°	4021.4	4001.4	4001.4	3996.4	3984.0	3986.4
7.5°	4056.4	4024.0	4011.4	3994.0	3976.3	3976.3
10°	4096.5	4038.9	4003.9	3973.9	3951.5	3951.5
12.5°	4126.5	4036.4	3979.0	3938.9	3916.4	3916.4
15°	4136.4	4018.9	3938.9	3891.4	3871.3	3868.9
17.5°	4103.9	3951.5	3853.9	3798.8	3773.8	3766.4
20°	4003.9	3828.8	3711.3	3648.7	3613.8	3601.2
22.5°	3853.9	3653.8	3516.2	3451.2	3406.3	3398.6
25°	3643.7	3428.7	3293.6	3231.2	3206.1	3198.7
27.5°	3398.6	3198.7	3083.6	3043.5	3021.1	3018.6
30°	3166.2	2996.0	2911.0	2881.0	2853.6	2848.5
32.5°	2948.5	2841.0	2808.6	2766.1	2700.9	2693.5
35°	2793.5	2783.5	2761.0	2665.9	2586.0	2563.5
37.5°	2698.5	2791.0	2676.0	2488.3	2430.9	2425.9
40°	2643.4	2713.5	2516.0	2450.8	2455.8	2450.8
42.5°	2518.4	2590.9	2521.0	2490.9	2510.9	2516.0
45°	2393.4	2473.4	2558.5	2538.4	2586.0	2586.0
47.5°	2323.3	2443.4	2555.9	2555.9	2625.9	2651.0
50°	2243.2	2418.3	2516.0	2550.8	2606.0	2586.0
52.5°	2238.2	2375.8	2458.4	2521.0	2545.8	2523.3
55°	2245.9	2340.9	2400.9	2470.9	2500.9	2503.3
57.5°	2255.9	2320.9	2360.8	2393.4	2483.4	2483.4
60°	2280.7	2303.3	2325.8	2343.3	2460.8	2463.4
62.5°	2320.9	2285.7	2280.7	2298.4	2448.4	2438.4
65°	2383.4	2260.9	2223.2	2240.8	2435.8	2405.8
67.5°	2468.4	2223.2	2150.7	2163.3	2425.9	2360.8
70°	2545.8	2163.3	2060.7	2048.2	2330.8	2215.8
72.5°	2553.4	2093.2	1935.7	1898.2	2025.7	1915.6
75°	2428.4	2045.7	1798.1	1688.1	1673.2	1658.1
77.5°	2188.4	2018.2	1638.1	1465.6	1435.5	1445.6
80°	1830.7	1915.6	1445.6	1240.4	1403.1	1385.5
82.5°	1367.9	1690.6	1228.0	1097.9	1095.5	967.8
85°	760.2	1318.0	1000.4	822.8	572.7	555.2
87.5°	212.5	732.7	700.3	465.1	317.6	330.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)