

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: P193136

Luminaire Tested: **GAN-AF-08-LED-U-T2R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193136
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-08-LED-U-T2R-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31669.9 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

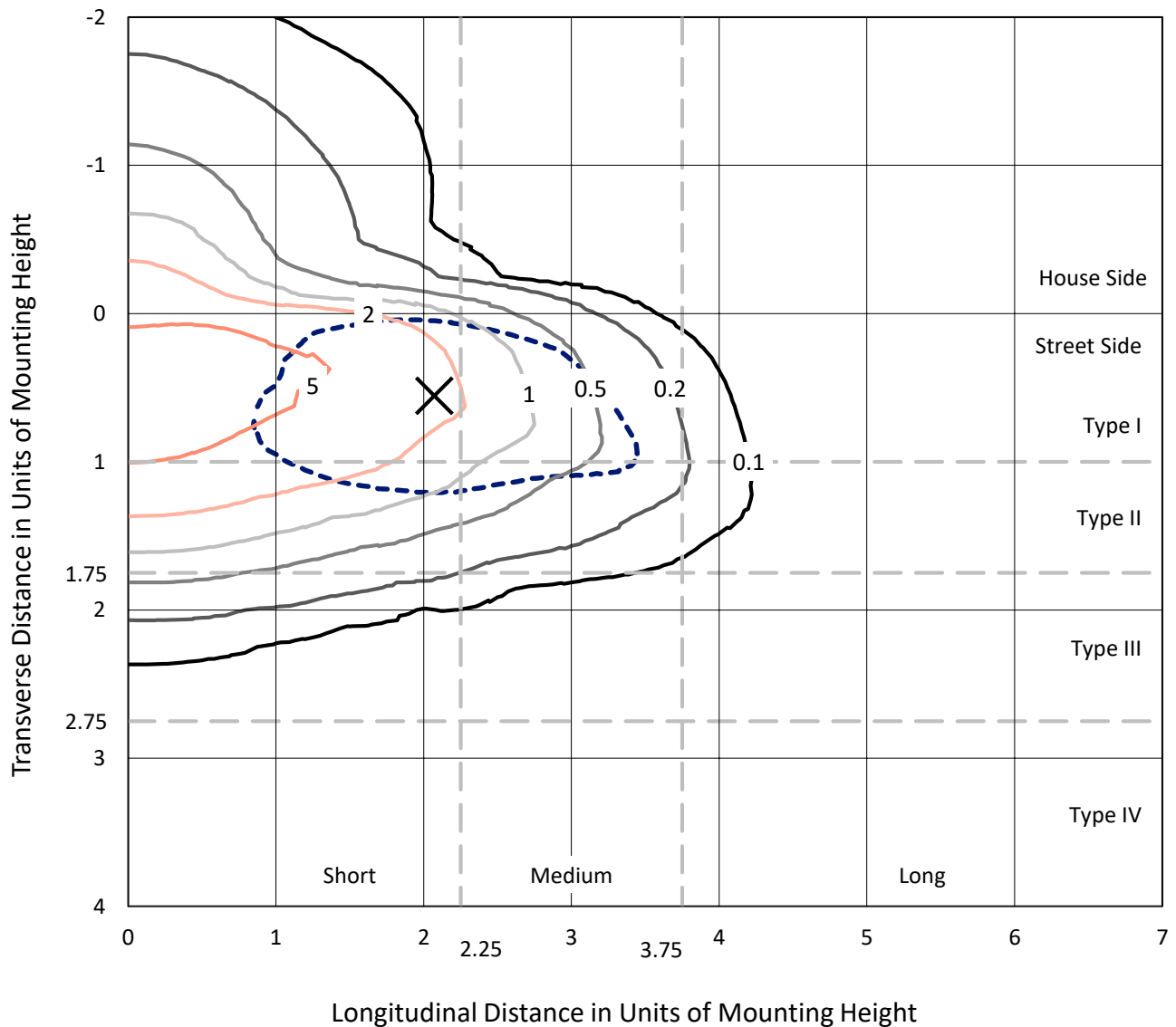
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

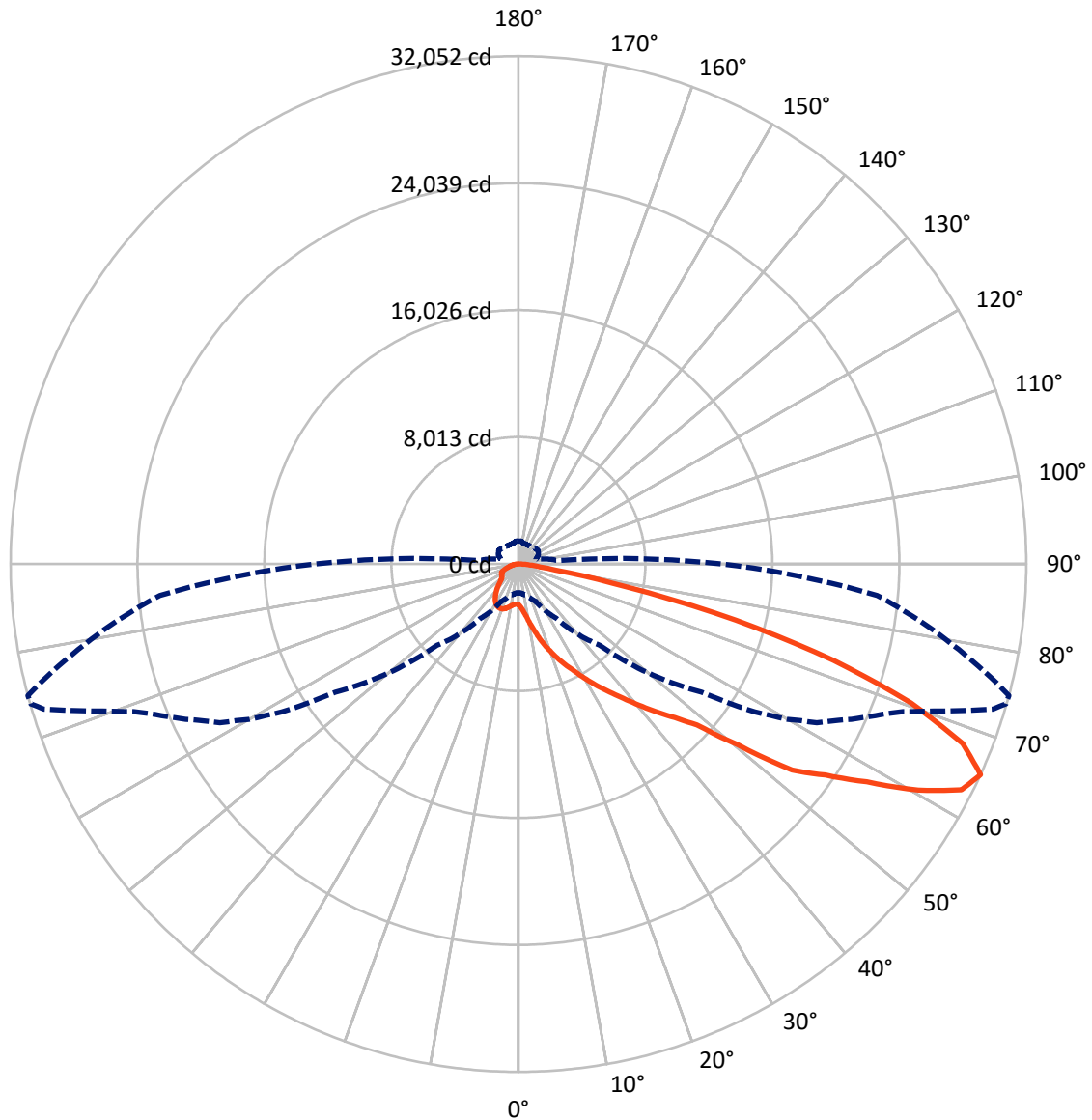
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 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	4882.8	0.0	4882.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	26787.1	0.0	26787.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	31669.9	0.0	31669.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.1	1.0
10°-20°	1243.0	3.9
20°-30°	2550.2	8.1
30°-40°	4290.6	13.5
40°-50°	5928.4	18.7
50°-60°	7400.5	23.4
60°-70°	6659.6	21.0
70°-80°	2791.7	8.8
80°-90°	487.7	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°	31669.9	100.0
0°-180°	31669.9	100.0

Coefficient of Utilization



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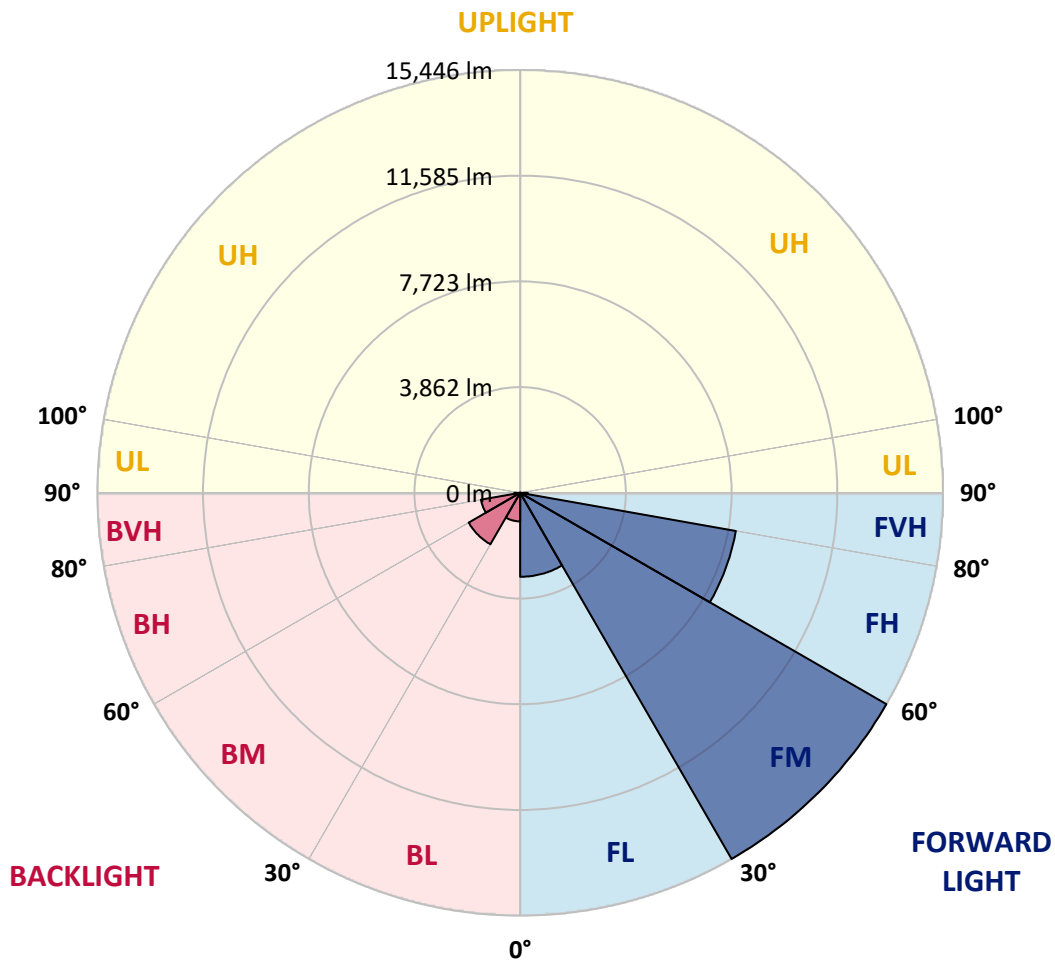
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3067.1	9.7			
FM	(30°-60°)	15446.2	48.8			
FH	(60°-80°)	7999.7	25.3			G4/12000
FVH	(80°-90°)	274.1	0.9			G3/500
BL	(0°-30°)	1044.2	3.3	B3/2500		
BM	(30°-60°)	2173.4	6.9	B2/2500		
BH	(60°-80°)	1451.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	213.6	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8
2.5°	3267.8	3231.9	3240.8	3180.9	3107.5	3011.5	2905.1	2903.6	2905.1	2894.6	2855.6
5°	4531.5	4488.1	4471.6	4336.6	4138.7	3857.0	3551.2	3518.1	3504.7	3470.2	3390.8
7.5°	5453.3	5429.4	5403.9	5302.0	5122.1	4807.3	4396.6	4326.1	4258.7	4242.2	4152.2
10°	6048.5	6042.5	5988.5	5961.5	5849.0	5576.3	5176.0	5108.6	5035.1	5009.6	4915.2
12.5°	6519.2	6517.7	6492.1	6499.7	6402.3	6204.4	5859.6	5798.2	5744.2	5666.1	5598.8
15°	6844.4	6845.9	6883.5	6925.4	6910.4	6777.1	6453.2	6426.2	6379.7	6325.8	6246.4
17.5°	7111.2	7118.8	7157.7	7234.2	7316.6	7306.1	7049.9	7027.3	6986.8	6913.4	6871.5
20°	7713.8	7742.3	7667.4	7667.4	7676.3	7716.9	7593.9	7575.9	7519.0	7480.0	7447.0
22.5°	8731.7	8764.7	8595.3	8422.9	8253.5	8130.5	8007.6	8030.1	7991.2	7964.2	7944.7
25°	10053.8	10079.2	9804.9	9514.2	9169.4	8719.7	8415.3	8401.9	8380.9	8364.5	8355.4
27.5°	11298.0	11308.5	11049.2	10623.4	10223.2	9577.1	8829.1	8812.7	8787.1	8755.7	8728.7
30°	12362.2	12359.3	12092.5	11686.3	11257.5	10542.4	9457.2	9406.2	9331.3	9245.8	9179.9
32.5°	13284.2	13279.7	12987.3	12566.1	12116.5	11498.9	10317.6	10212.7	10095.8	9929.4	9829.0
35°	14009.7	14006.7	13730.8	13291.6	12776.0	12399.8	11304.0	11175.0	11026.7	10803.3	10649.0
37.5°	14284.0	14284.0	14129.6	13829.8	13374.1	13116.2	12399.8	12243.8	12084.9	11831.5	11657.8
40°	14123.6	14126.5	14159.6	14104.1	13882.3	13684.4	13422.1	13329.1	13192.7	12964.8	12783.5
42.5°	13585.4	13601.9	13820.7	14089.1	14200.0	14168.5	14329.0	14287.0	14191.0	14015.7	13871.8
45°	12903.4	12954.4	13194.2	13700.9	14288.5	14586.7	15088.9	15093.4	15075.5	14981.0	14870.0
47.5°	11966.5	12038.5	12354.8	13039.8	14081.7	14993.0	15860.9	15901.4	15938.8	15877.4	15826.4
50°	10722.3	10807.8	11281.4	12189.8	13660.3	15414.2	17319.4	17502.4	17673.2	17652.3	17686.7
52.5°	9389.7	9490.1	10070.3	11082.1	12936.4	15511.6	18251.9	18550.1	18848.5	19092.7	19352.1
55°	8187.6	8133.6	8713.7	9779.5	11746.1	15072.5	19089.8	19449.6	19782.3	20082.1	20390.9
57.5°	6558.2	6646.6	7228.1	8282.0	10170.7	13832.8	19666.8	20193.1	20671.2	21167.4	21605.2
60°	4793.8	4882.2	5513.3	6583.6	8460.4	11953.1	19226.2	20023.6	20789.7	21549.6	22143.2
62.5°	2894.6	2960.5	3516.6	4536.0	6523.7	9724.0	17262.5	18308.8	19436.0	20344.4	21254.3
65°	1801.8	1839.3	2044.7	2605.3	4189.6	7259.6	14104.1	15244.8	16459.1	17611.7	18557.5
67.5°	1475.0	1488.5	1526.1	1645.9	2301.0	4733.8	10497.5	11507.8	12603.6	13718.8	14771.2
70°	1326.6	1317.6	1317.6	1325.1	1475.0	2545.3	6873.0	7531.0	8443.9	9413.8	10376.2
72.5°	1197.7	1188.7	1172.3	1149.7	1203.7	1553.0	3552.7	4048.8	4706.9	5568.8	6490.6
75°	1076.3	1064.3	1044.8	1016.3	1053.8	1172.3	1705.9	1914.2	2235.0	2693.7	3207.9
77.5°	950.3	935.4	917.3	896.4	944.3	911.4	999.8	1074.8	1197.7	1344.7	1538.0
80°	808.0	794.5	788.6	778.0	835.0	694.1	706.1	752.5	824.5	903.9	993.8
82.5°	632.6	632.6	656.5	661.0	724.1	499.2	527.6	568.1	605.7	647.6	689.5
85°	416.8	419.8	500.6	532.1	571.1	335.8	395.7	409.1	439.2	463.2	481.2
87.5°	130.4	141.0	305.8	338.8	328.4	190.3	242.9	248.8	269.9	286.3	301.3
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8
2.5°	2855.6	2837.6	2821.1	2819.7	2807.6	2791.1	2797.1	2771.7	2773.1	2759.7	2744.7
5°	3357.7	3345.7	3285.9	3269.4	3224.3	3195.9	3191.4	3131.4	3123.9	3089.5	3051.9
7.5°	4080.3	4041.3	3957.4	3916.8	3840.5	3783.4	3756.5	3677.0	3638.2	3548.0	3507.7
10°	4837.2	4787.8	4684.4	4627.4	4553.9	4462.4	4413.1	4297.6	4252.7	4170.2	4071.3
12.5°	5538.8	5489.3	5382.8	5339.4	5242.0	5144.6	5090.6	4960.2	4901.7	4769.8	4691.9
15°	6187.9	6138.4	6045.5	6000.5	5903.1	5823.6	5751.6	5622.7	5553.7	5430.8	5328.9
17.5°	6817.4	6765.0	6684.1	6643.6	6549.1	6468.1	6390.2	6268.9	6198.4	6075.5	5984.0
20°	7402.1	7363.1	7304.6	7250.7	7156.3	7082.7	6989.9	6884.9	6783.0	6693.0	6606.2
22.5°	7911.7	7896.7	7833.8	7809.8	7728.9	7665.8	7585.0	7481.5	7408.1	7294.1	7213.2
25°	8350.9	8346.5	8316.5	8308.9	8252.1	8192.0	8174.0	8088.6	8021.2	7920.7	7836.7
27.5°	8728.7	8733.2	8725.7	8746.6	8731.7	8704.6	8706.3	8677.7	8638.7	8554.8	8481.4
30°	9148.4	9124.5	9137.9	9167.8	9176.9	9179.9	9229.3	9245.8	9242.8	9187.4	9151.4
32.5°	9742.0	9685.1	9632.7	9628.0	9658.1	9670.1	9754.0	9797.5	9835.0	9848.4	9854.4
35°	10499.0	10385.1	10275.7	10217.2	10166.2	10179.6	10239.7	10310.1	10392.5	10449.5	10517.0
37.5°	11452.3	11312.9	11119.6	10981.6	10947.2	10872.3	10911.1	10966.7	11047.6	11136.0	11253.0
40°	12608.1	12396.8	12179.3	11996.5	11897.6	11759.7	11758.2	11747.7	11797.2	11879.5	12044.5
42.5°	13720.3	13533.0	13302.1	13110.2	12981.3	12797.0	12759.6	12662.0	12684.6	12756.4	12916.8
45°	14762.1	14607.8	14466.9	14245.0	14135.5	13936.2	13873.3	13757.8	13693.4	13726.4	13886.8
47.5°	15771.0	15672.0	15525.2	15381.3	15297.3	15119.0	15038.0	14955.5	14873.1	14870.0	15038.0
50°	17737.7	17685.2	17511.3	17361.4	17401.9	17183.1	17196.6	16974.7	17075.1	17087.0	17439.4
52.5°	19586.0	19768.9	19897.8	20055.1	20157.0	20176.6	20244.0	20344.4	20465.9	20705.7	21032.5
55°	20644.2	20873.6	21007.0	21126.9	21324.7	21366.7	21479.2	21612.6	21719.0	21988.9	22266.2
57.5°	21901.9	22327.5	22534.5	22724.9	22991.7	23093.6	23281.0	23426.4	23564.3	23883.5	24219.4
60°	22676.9	23195.5	23616.7	23918.1	24252.4	24492.2	24775.5	25003.3	25327.2	25709.4	26209.9
62.5°	22060.7	22822.3	23381.4	23898.6	24352.8	24811.4	25217.7	25643.3	26135.1	26713.7	27490.1
65°	19606.9	20381.9	21339.8	21876.4	22477.5	23185.1	23802.6	24492.2	25162.2	26004.7	27152.9
67.5°	15784.4	16685.4	17761.6	18302.8	18993.8	19783.8	20476.4	21318.7	22101.3	23122.1	24541.6
70°	11377.3	12542.1	13447.5	14012.6	14819.2	15633.1	16301.6	17282.0	17929.6	18975.8	20443.4
72.5°	7204.2	8123.1	9232.3	9944.3	10660.9	11485.4	12168.9	13014.3	13618.4	14571.8	15901.4
75°	3873.5	4550.9	5525.3	6201.3	6968.9	7673.4	8473.8	9040.4	9487.2	10241.2	11320.5
77.5°	1815.4	2227.5	2720.7	3240.8	3761.0	4303.6	4831.2	5290.0	5481.9	5913.5	6550.6
80°	1101.8	1235.1	1379.1	1539.5	1756.8	1932.2	2164.5	2332.4	2344.4	2480.8	2675.8
82.5°	736.0	785.5	829.0	869.3	924.9	968.4	1017.9	1076.3	1100.2	1131.7	1194.8
85°	502.1	526.2	535.2	560.6	554.6	569.6	589.1	608.6	619.1	617.7	646.0
87.5°	308.7	320.7	326.8	332.8	328.4	322.4	331.3	341.8	344.8	335.8	338.8
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°	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8
2.5°	2747.7	2734.2	2720.7	2711.7	2708.6	2629.3	2594.8	2572.3	2524.3	2485.3	2453.9
5°	3031.0	3002.5	2980.0	2953.1	2938.1	2737.2	2663.7	2612.7	2528.8	2479.3	2434.4
7.5°	3486.7	3407.2	3360.7	3308.3	3263.3	2900.7	2779.1	2699.7	2582.8	2516.8	2465.9
10°	4003.8	3921.5	3847.9	3767.0	3696.6	3117.9	2941.0	2818.2	2663.7	2578.3	2510.8
12.5°	4580.9	4500.0	4407.1	4303.6	4213.7	3393.7	3147.9	2972.5	2761.2	2647.3	2552.9
15°	5263.0	5120.6	5008.1	4888.3	4783.3	3723.5	3389.2	3146.4	2864.6	2710.1	2584.3
17.5°	5897.0	5747.1	5594.3	5489.3	5367.9	4093.7	3632.1	3323.3	2950.0	2750.7	2590.3
20°	6516.1	6352.8	6220.9	6079.9	5952.6	4477.6	3891.4	3479.2	3005.5	2752.1	2552.9
22.5°	7061.8	6959.9	6813.0	6660.0	6531.2	4861.3	4134.3	3611.1	3026.5	2717.8	2486.8
25°	7682.3	7574.4	7394.5	7265.6	7121.7	5252.5	4372.5	3713.0	3014.5	2653.3	2384.9
27.5°	8344.9	8225.0	8040.6	7905.8	7731.8	5658.7	4591.4	3786.5	2969.5	2548.3	2248.5
30°	9036.0	8926.6	8745.2	8608.7	8433.4	6088.9	4835.9	3836.0	2879.5	2402.9	2089.6
32.5°	9777.9	9686.5	9506.6	9364.3	9176.9	6555.1	5063.6	3851.0	2743.2	2230.5	1921.8
35°	10482.6	10419.5	10268.1	10134.8	9939.9	6995.9	5305.0	3843.4	2581.2	2041.6	1768.8
37.5°	11275.4	11238.0	11163.0	10993.6	10755.4	7593.9	5594.3	3811.9	2383.4	1854.2	1651.9
40°	12120.9	12124.0	12043.0	11927.5	11705.7	8319.4	5939.0	3750.6	2167.6	1689.3	1545.5
42.5°	13015.8	13062.3	13023.2	12940.8	12728.0	9050.9	6351.2	3675.6	1957.7	1529.0	1440.6
45°	14041.1	14098.0	14158.1	14036.6	13829.8	10016.4	6893.9	3578.1	1731.3	1395.6	1368.6
47.5°	15223.8	15313.8	15367.8	15369.3	15162.4	11212.5	7775.3	3519.7	1530.5	1305.6	1334.2
50°	17719.6	17748.2	17875.6	18097.4	17938.5	13981.2	9314.8	3483.7	1394.0	1250.2	1308.6
52.5°	21315.8	21629.1	21849.4	21834.5	21618.6	15739.6	10163.2	3297.8	1313.1	1229.1	1296.7
55°	22780.3	23171.6	23579.2	23687.2	23519.3	17240.0	10965.1	3111.9	1274.2	1244.1	1301.2
57.5°	24732.0	25391.6	25950.7	26186.0	25943.2	19160.2	12020.4	3014.5	1262.2	1284.7	1329.5
60°	27011.9	27827.5	28562.0	28984.7	28984.7	21366.7	13114.7	2974.0	1245.7	1344.7	1377.5
62.5°	28476.6	29674.3	30783.5	31402.5	31384.6	22903.3	13600.5	2836.2	1208.2	1386.6	1443.6
65°	28482.5	29906.6	31320.2	32015.7	32051.6	22714.4	12798.5	2504.9	1139.2	1392.6	1509.5
67.5°	26108.0	27626.5	29274.0	30052.0	30231.8	20909.6	11079.1	2059.6	1026.8	1332.6	1533.5
70°	22050.2	23532.8	25214.8	25979.2	26298.4	17824.7	8923.5	1587.4	883.0	1200.6	1484.0
72.5°	17371.9	18825.9	19996.6	20555.8	20804.6	13624.4	6498.2	1199.2	724.1	1011.8	1350.6
75°	12299.4	13390.6	14012.6	14137.0	14176.1	8213.0	3948.4	891.9	596.5	787.0	1140.7
77.5°	6941.9	7409.5	7358.6	7414.0	6952.3	3170.3	1719.3	638.6	491.6	598.0	884.5
80°	2710.1	2794.1	2624.7	2572.3	2359.5	1179.7	758.5	445.2	392.8	452.7	619.1
82.5°	1194.8	1233.6	1197.7	1206.7	1154.3	608.6	454.2	322.4	299.8	331.3	410.7
85°	658.1	670.1	667.0	686.5	658.1	242.9	215.9	197.9	209.9	224.8	263.9
87.5°	320.7	323.7	313.2	329.8	319.2	122.9	106.4	112.4	122.9	125.8	125.8
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°	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8
2.5°	2431.3	2419.4	2420.8	2417.9	2411.9	2411.9
5°	2410.4	2398.3	2398.3	2395.4	2387.9	2389.4
7.5°	2431.3	2411.9	2404.4	2393.9	2383.4	2383.4
10°	2455.4	2420.8	2399.9	2382.0	2368.4	2368.4
12.5°	2473.3	2419.4	2384.9	2360.9	2347.4	2347.4
15°	2479.3	2408.9	2360.9	2332.4	2320.4	2318.9
17.5°	2459.9	2368.4	2310.0	2277.0	2262.0	2257.6
20°	2399.9	2295.0	2224.5	2187.1	2166.1	2158.5
22.5°	2310.0	2190.0	2107.6	2068.6	2041.6	2037.1
25°	2184.1	2055.1	1974.2	1936.7	1921.8	1917.2
27.5°	2037.1	1917.2	1848.2	1824.3	1810.8	1809.4
30°	1897.8	1795.7	1744.9	1726.9	1710.4	1707.4
32.5°	1767.3	1703.0	1683.3	1657.9	1618.9	1614.5
35°	1674.4	1668.4	1655.0	1597.9	1550.0	1536.5
37.5°	1617.5	1672.9	1603.9	1491.5	1457.1	1454.0
40°	1584.5	1626.5	1508.0	1469.0	1472.0	1469.0
42.5°	1509.5	1553.0	1510.9	1493.0	1505.0	1508.0
45°	1434.6	1482.5	1533.5	1521.4	1550.0	1550.0
47.5°	1392.6	1464.5	1532.1	1532.1	1574.0	1588.9
50°	1344.7	1449.6	1508.0	1529.0	1562.0	1550.0
52.5°	1341.6	1424.0	1473.5	1510.9	1526.1	1512.4
55°	1346.1	1403.1	1439.1	1481.0	1499.0	1500.4
57.5°	1352.1	1391.1	1415.0	1434.6	1488.5	1488.5
60°	1367.1	1380.6	1394.0	1404.5	1475.0	1476.5
62.5°	1391.1	1370.1	1367.1	1377.5	1467.6	1461.6
65°	1428.6	1355.2	1332.6	1343.2	1460.0	1442.0
67.5°	1479.5	1332.6	1289.1	1296.7	1454.0	1415.0
70°	1526.1	1296.7	1235.1	1227.6	1397.1	1328.1
72.5°	1530.5	1254.7	1160.3	1137.7	1214.2	1148.2
75°	1455.6	1226.2	1077.8	1011.8	1002.8	993.8
77.5°	1311.6	1209.7	981.8	878.5	860.4	866.4
80°	1097.3	1148.2	866.4	743.5	841.0	830.5
82.5°	820.0	1013.3	736.0	658.1	656.5	580.1
85°	455.7	790.0	599.7	493.2	343.3	332.8
87.5°	127.4	439.2	419.8	278.8	190.3	197.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)