

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: P193135

Luminaire Tested: **GAN-AF-07-LED-U-T2R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193135
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-07-LED-U-T2R-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 27950.7 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

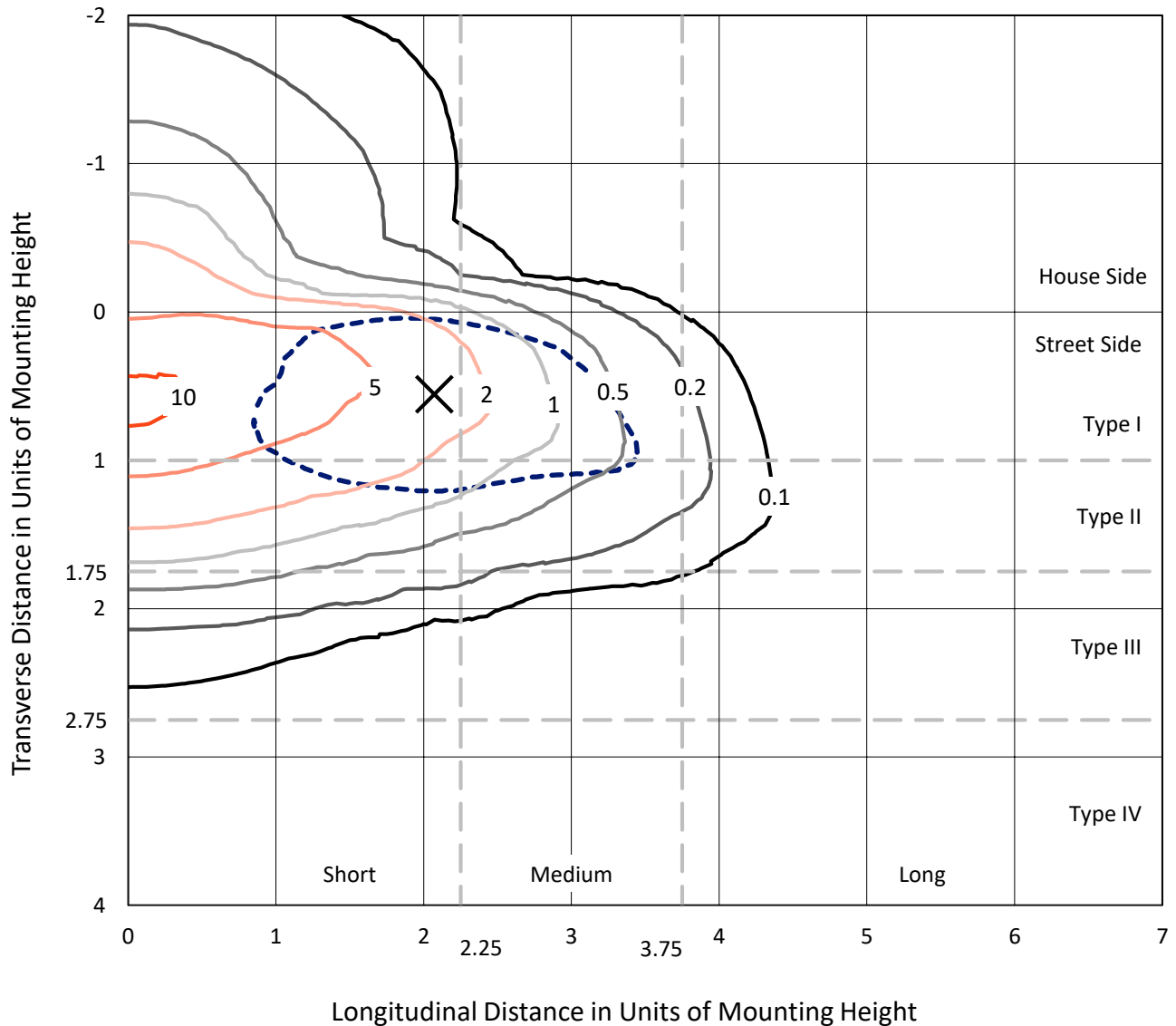
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

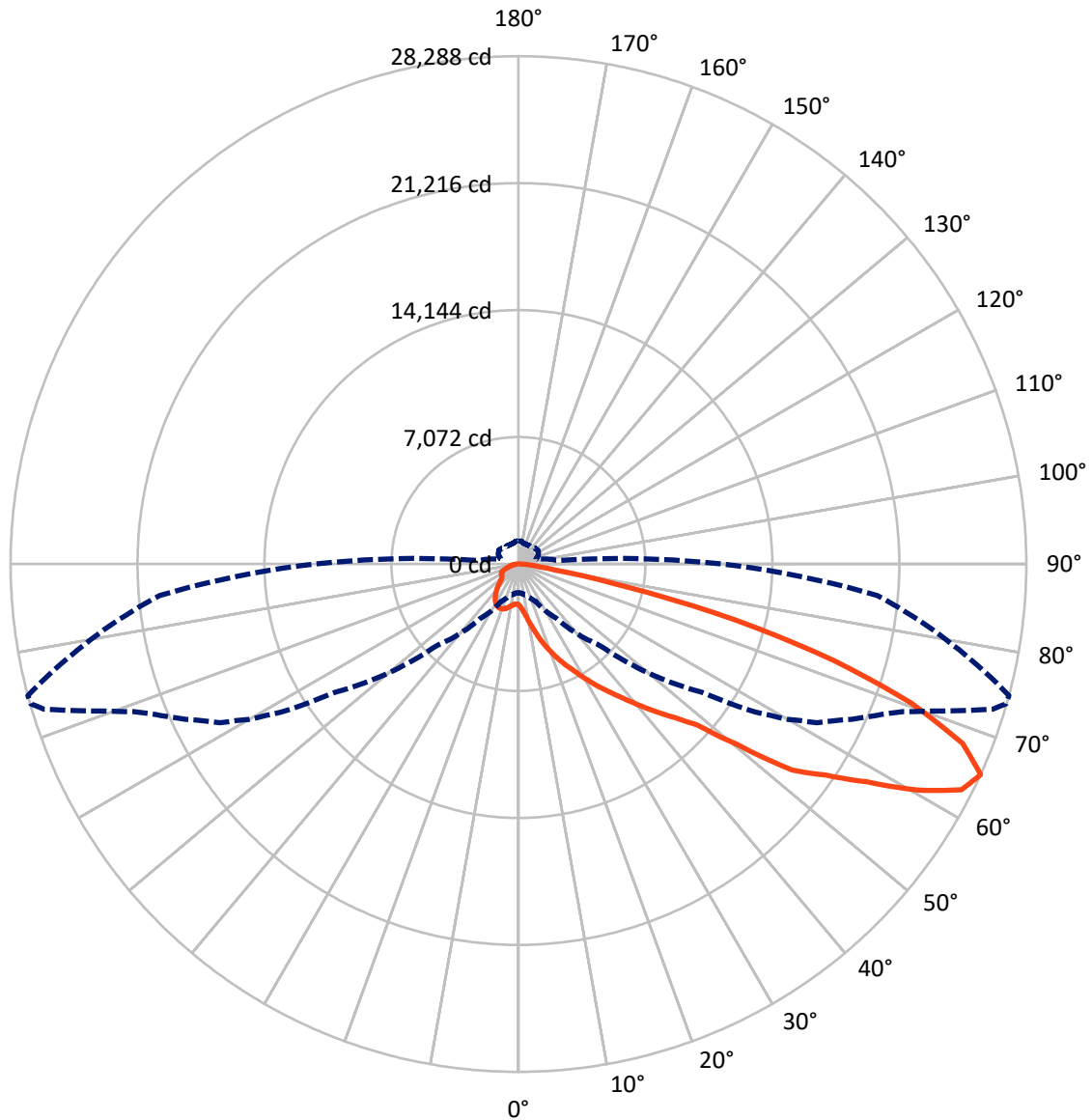
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	4309.3	0.0	4309.3
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	23641.4	0.0	23641.4
	% Fixture	84.6	0.0	84.6
Total	Lumens	27950.7	0.0	27950.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.8	1.0
10°-20°	1097.0	3.9
20°-30°	2250.7	8.1
30°-40°	3786.8	13.5
40°-50°	5232.2	18.7
50°-60°	6531.4	23.4
60°-70°	5877.5	21.0
70°-80°	2463.8	8.8
80°-90°	430.4	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°	27950.7	100.0
0°-180°	27950.7	100.0

Coefficient of Utilization



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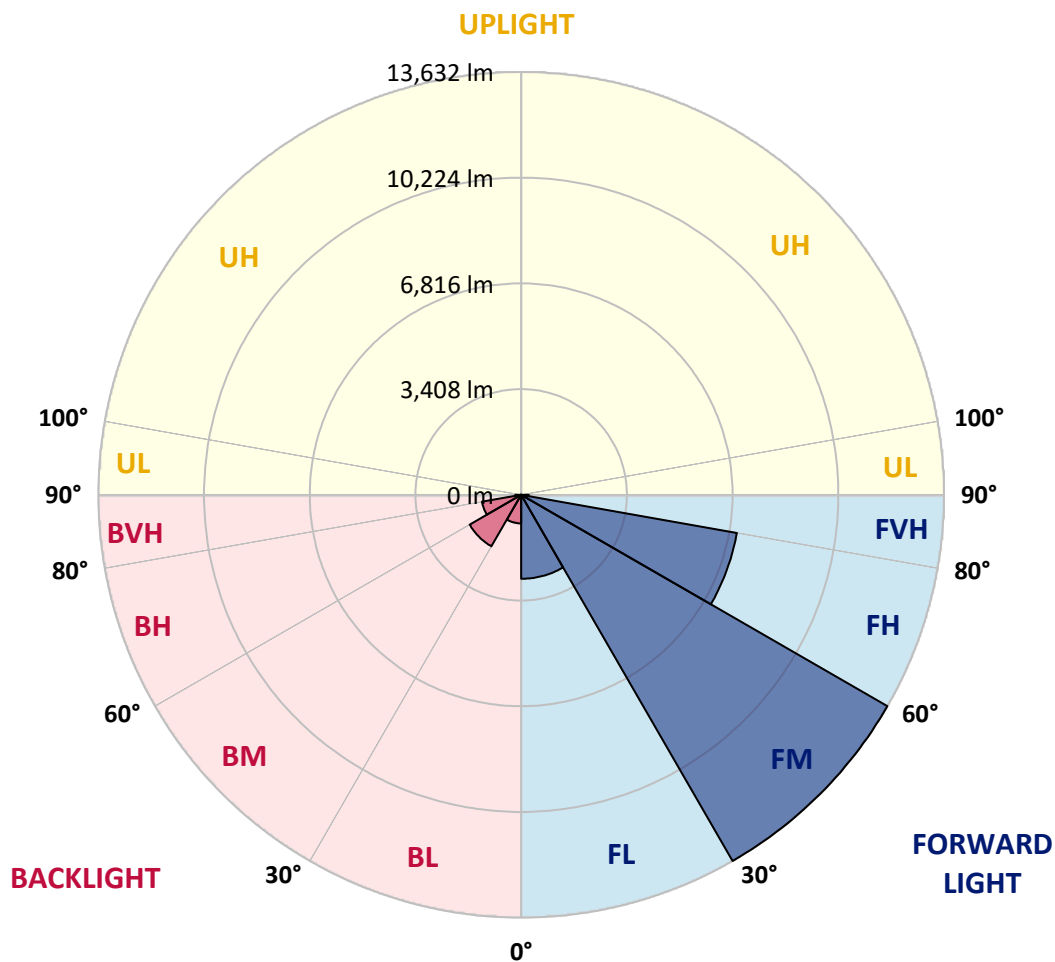
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2706.9	9.7			
FM (30°-60°)	13632.2	48.8			
FH (60°-80°)	7060.2	25.3			G3/7500
FVH (80°-90°)	241.9	0.9			G3/500
BL (0°-30°)	921.6	3.3	B2/1000		
BM (30°-60°)	1918.1	6.9	B2/2500		
BH (60°-80°)	1281.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	188.5	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2271.5	2271.5	2271.5	2271.5	2271.5	2271.5	2271.5	2271.5	2271.5	2271.5	2271.5
2.5°	2884.0	2852.3	2860.3	2807.3	2742.5	2657.8	2563.9	2562.5	2563.9	2554.6	2520.3
5°	3999.3	3960.9	3946.5	3827.4	3652.7	3404.0	3134.1	3105.0	3093.1	3062.6	2992.5
7.5°	4813.0	4791.8	4769.2	4679.3	4520.6	4242.7	3880.3	3818.1	3758.5	3744.0	3664.7
10°	5338.2	5332.8	5285.2	5261.4	5162.2	4921.5	4568.2	4508.7	4443.8	4421.4	4338.0
12.5°	5753.6	5752.3	5729.8	5736.3	5650.4	5475.7	5171.5	5117.2	5069.6	5000.8	4941.2
15°	6040.6	6041.9	6075.1	6112.1	6098.9	5981.1	5695.3	5671.5	5630.5	5582.9	5512.7
17.5°	6276.2	6282.7	6317.2	6384.7	6457.4	6448.2	6221.9	6202.1	6166.4	6101.5	6064.4
20°	6808.0	6833.1	6767.0	6767.0	6774.9	6810.5	6702.2	6686.2	6636.0	6601.6	6572.5
22.5°	7706.3	7735.3	7585.9	7433.8	7284.2	7175.7	7067.3	7087.1	7052.6	7028.8	7011.7
25°	8873.2	8895.6	8653.6	8396.9	8092.7	7695.6	7427.1	7415.2	7396.8	7382.1	7374.2
27.5°	9971.2	9980.4	9751.6	9375.9	9022.6	8452.4	7792.3	7777.7	7755.2	7727.5	7703.7
30°	10910.5	10907.8	10672.3	10313.8	9935.5	9304.4	8346.6	8301.6	8235.4	8160.0	8101.8
32.5°	11724.1	11720.1	11462.2	11090.4	10693.5	10148.4	9106.0	9013.4	8910.2	8763.3	8674.6
35°	12364.5	12361.8	12118.4	11730.7	11275.7	10943.5	9976.5	9862.8	9731.7	9534.6	9398.4
37.5°	12606.6	12606.6	12470.3	12205.7	11803.5	11575.9	10943.5	10806.0	10665.8	10442.1	10288.7
40°	12465.0	12467.6	12496.7	12447.8	12252.0	12077.3	11845.8	11763.8	11643.4	11442.2	11282.2
42.5°	11990.0	12004.6	12197.7	12434.6	12532.5	12504.6	12646.2	12609.2	12524.5	12369.7	12242.7
45°	11388.1	11433.1	11644.8	12091.9	12610.4	12873.8	13316.9	13320.9	13305.0	13221.7	13123.7
47.5°	10561.2	10624.7	10903.8	11508.5	12427.9	13232.3	13998.3	14034.1	14067.1	14012.8	13967.8
50°	9463.2	9538.6	9956.6	10758.3	12056.2	13604.1	15285.5	15447.0	15597.8	15579.3	15609.7
52.5°	8287.1	8375.7	8887.7	9780.7	11417.1	13690.0	16108.4	16371.6	16634.9	16850.6	17079.5
55°	7226.1	7178.5	7690.4	8631.1	10366.7	13302.5	16848.0	17165.5	17459.2	17723.7	17996.3
57.5°	5788.0	5866.0	6379.3	7309.3	8976.3	12208.3	17357.3	17821.6	18243.7	18681.5	19067.9
60°	4230.8	4308.8	4865.9	5810.4	7466.8	10549.3	16968.3	17672.1	18348.2	19019.0	19542.8
62.5°	2554.6	2612.8	3103.7	4003.3	5757.5	8582.1	15235.2	16158.7	17153.6	17955.2	18758.2
65°	1590.2	1623.3	1804.5	2299.4	3697.7	6407.1	12447.8	13454.5	14526.1	15543.6	16378.3
67.5°	1301.9	1313.8	1346.7	1452.6	2030.8	4178.0	9264.7	10156.4	11123.4	12107.8	13036.5
70°	1170.8	1162.8	1162.8	1169.5	1301.9	2246.4	6065.7	6646.6	7452.2	8308.2	9157.6
72.5°	1057.1	1049.1	1034.5	1014.7	1062.3	1370.5	3135.4	3573.4	4154.1	4914.8	5728.5
75°	949.9	939.3	922.1	897.0	930.1	1034.5	1505.5	1689.4	1972.5	2377.4	2831.1
77.5°	838.8	825.6	809.6	791.1	833.4	804.3	882.4	948.6	1057.1	1186.7	1357.3
80°	713.0	701.1	695.9	686.5	736.9	612.5	623.1	664.1	727.6	797.7	877.2
82.5°	558.4	558.4	579.5	583.5	638.9	440.6	465.7	501.4	534.5	571.5	608.6
85°	367.7	370.4	441.9	469.7	504.0	296.3	349.3	361.2	387.7	408.8	424.7
87.5°	115.0	124.3	269.9	299.1	289.7	168.0	214.3	219.6	238.1	252.7	265.9
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°	2271.5	2271.5	2271.5	2271.5	2271.5	2271.5	2271.5	2271.5	2271.5	2271.5	2271.5
2.5°	2520.3	2504.3	2489.8	2488.5	2477.9	2463.4	2468.6	2446.2	2447.5	2435.6	2422.4
5°	2963.4	2952.8	2900.0	2885.4	2845.6	2820.5	2816.6	2763.7	2757.0	2726.7	2693.6
7.5°	3601.0	3566.7	3492.6	3456.9	3389.4	3339.2	3315.4	3245.2	3210.8	3131.5	3095.8
10°	4269.2	4225.6	4134.3	4084.0	4019.2	3938.5	3894.8	3792.9	3753.3	3680.5	3593.2
12.5°	4888.4	4844.7	4750.8	4712.4	4626.4	4540.4	4492.7	4377.7	4326.1	4209.6	4140.9
15°	5461.3	5417.5	5335.5	5295.8	5209.8	5139.7	5076.1	4962.4	4901.6	4793.1	4703.2
17.5°	6016.8	5970.6	5899.1	5863.4	5780.1	5708.6	5639.8	5532.7	5470.5	5362.0	5281.3
20°	6532.8	6498.4	6446.9	6399.2	6315.8	6251.0	6169.0	6076.4	5986.5	5907.0	5830.3
22.5°	6982.6	6969.3	6913.8	6892.6	6821.2	6765.7	6694.2	6602.9	6538.1	6437.5	6366.1
25°	7370.2	7366.3	7339.8	7333.2	7282.9	7230.0	7214.2	7138.7	7079.2	6990.5	6916.4
27.5°	7703.7	7707.5	7700.9	7719.5	7706.3	7682.4	7683.7	7658.6	7624.2	7550.2	7485.4
30°	8074.0	8052.9	8064.8	8091.2	8099.2	8101.8	8145.5	8160.0	8157.4	8108.4	8076.7
32.5°	8597.9	8547.7	8501.4	8497.4	8523.9	8534.5	8608.5	8646.9	8680.0	8691.9	8697.1
35°	9266.1	9165.5	9068.9	9017.2	8972.4	8984.3	9037.2	9099.3	9172.1	9222.3	9281.9
37.5°	10107.5	9984.4	9813.7	9692.1	9661.6	9595.4	9629.9	9678.8	9750.3	9828.3	9931.4
40°	11127.4	10940.9	10749.0	10587.7	10500.4	10378.6	10377.3	10368.0	10411.8	10484.5	10630.1
42.5°	12109.1	11943.6	11740.0	11570.7	11456.8	11294.1	11261.1	11175.0	11194.9	11258.4	11400.0
45°	13028.5	12892.3	12767.9	12572.1	12475.6	12299.7	12244.0	12142.2	12085.2	12114.3	12255.9
47.5°	13918.9	13831.5	13701.9	13574.9	13500.8	13343.4	13271.9	13199.2	13126.4	13123.7	13271.9
50°	15654.6	15608.3	15454.8	15322.5	15358.2	15165.1	15177.1	14981.2	15069.9	15080.5	15391.4
52.5°	17285.8	17447.3	17561.0	17699.9	17789.9	17807.1	17866.6	17955.2	18062.4	18274.1	18562.5
55°	18219.8	18422.3	18539.9	18645.8	18820.5	18857.5	18956.7	19074.5	19168.5	19406.5	19651.3
57.5°	19329.8	19705.6	19888.1	20056.1	20291.6	20381.5	20547.0	20675.2	20797.0	21078.8	21375.2
60°	20013.8	20471.6	20843.3	21109.2	21404.2	21616.0	21865.9	22067.1	22352.8	22690.2	23132.1
62.5°	19470.1	20142.2	20635.6	21092.1	21492.8	21897.7	22256.2	22632.0	23065.8	23576.5	24261.9
65°	17304.4	17988.3	18833.7	19307.3	19837.8	20462.3	21007.4	21616.0	22207.3	22950.8	23964.2
67.5°	13930.8	14726.0	15675.8	16153.4	16763.3	17460.5	18071.7	18815.2	19505.8	20406.7	21659.5
70°	10041.3	11069.3	11868.3	12367.0	13078.8	13797.1	14387.3	15252.5	15824.0	16747.4	18042.6
72.5°	6358.2	7169.1	8148.1	8776.6	9409.0	10136.5	10739.8	11486.0	12019.2	12860.6	14034.1
75°	3418.5	4016.5	4876.5	5473.2	6150.4	6772.2	7478.7	7978.7	8373.1	9038.5	9991.0
77.5°	1602.1	1965.9	2401.2	2860.3	3319.3	3798.2	4264.0	4668.7	4838.1	5219.1	5781.4
80°	972.4	1090.1	1217.1	1358.6	1550.5	1705.3	1910.4	2058.6	2069.2	2189.5	2361.5
82.5°	649.5	693.2	731.6	767.3	816.2	854.6	898.3	949.9	971.1	998.8	1054.4
85°	443.1	464.4	472.3	494.8	489.5	502.7	520.0	537.1	546.4	545.1	570.3
87.5°	272.5	283.1	288.5	293.7	289.7	284.4	292.4	301.7	304.3	296.3	299.1
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	2271.5	2271.5	2271.5	2271.5	2271.5	2271.5	2271.5	2271.5	2271.5	2271.5	2271.5
2.5°	2425.0	2413.1	2401.2	2393.3	2390.6	2320.4	2290.1	2270.2	2227.9	2193.5	2165.7
5°	2675.0	2649.9	2630.1	2606.3	2593.0	2415.7	2350.9	2305.9	2231.8	2188.1	2148.5
7.5°	3077.2	3007.2	2966.1	2919.7	2880.1	2560.0	2452.8	2382.6	2279.4	2221.2	2176.2
10°	3533.7	3460.9	3396.0	3324.6	3262.5	2751.8	2595.7	2487.2	2350.9	2275.6	2216.0
12.5°	4043.0	3971.6	3889.5	3798.2	3718.8	2995.3	2778.3	2623.5	2436.9	2336.4	2253.0
15°	4644.9	4519.3	4420.0	4314.2	4221.6	3286.2	2991.2	2777.0	2528.2	2391.9	2280.8
17.5°	5204.6	5072.3	4937.3	4844.7	4737.5	3612.9	3205.5	2933.1	2603.5	2427.6	2286.0
20°	5751.0	5606.7	5490.3	5365.9	5253.5	3951.7	3434.4	3070.6	2652.6	2429.0	2253.0
22.5°	6232.4	6142.5	6012.9	5877.9	5764.2	4290.4	3648.7	3187.0	2671.1	2398.6	2194.8
25°	6780.2	6684.9	6526.2	6412.4	6285.3	4635.7	3859.0	3277.0	2660.5	2341.7	2104.9
27.5°	7364.9	7259.0	7096.4	6977.3	6823.9	4994.2	4052.2	3341.8	2620.8	2249.0	1984.4
30°	7974.9	7878.2	7718.2	7597.8	7443.0	5373.9	4267.8	3385.5	2541.4	2120.7	1844.2
32.5°	8629.8	8549.0	8390.2	8264.6	8099.2	5785.3	4468.9	3398.7	2421.0	1968.6	1696.0
35°	9251.5	9196.0	9062.3	8944.5	8772.5	6174.2	4682.0	3392.1	2278.2	1801.9	1561.1
37.5°	9951.4	9918.2	9852.1	9702.7	9492.2	6702.2	4937.3	3364.3	2103.5	1636.4	1457.9
40°	10697.5	10700.1	10628.7	10526.8	10331.0	7342.4	5241.6	3310.0	1913.0	1491.0	1364.0
42.5°	11487.3	11528.3	11494.0	11421.2	11233.3	7988.1	5605.4	3243.9	1727.8	1349.5	1271.3
45°	12392.1	12442.5	12495.4	12388.3	12205.7	8840.0	6084.3	3157.9	1528.0	1231.7	1207.9
47.5°	13436.0	13515.4	13563.0	13564.3	13381.7	9895.7	6862.2	3106.3	1350.8	1152.2	1177.5
50°	15638.8	15663.9	15776.4	15972.2	15831.8	12339.3	8220.8	3074.5	1230.4	1103.3	1155.0
52.5°	18812.6	19089.0	19283.5	19270.3	19079.8	13891.1	8969.7	2910.5	1158.9	1084.8	1144.4
55°	20105.2	20450.4	20810.2	20905.4	20757.3	15215.5	9677.5	2746.4	1124.5	1098.0	1148.4
57.5°	21827.6	22409.7	22903.2	23110.8	22896.6	16910.2	10608.8	2660.5	1113.9	1133.8	1173.5
60°	23839.9	24559.6	25207.7	25580.9	25580.9	18857.5	11574.6	2624.7	1099.3	1186.7	1215.8
62.5°	25132.4	26189.5	27168.4	27714.8	27698.9	20213.6	12003.2	2503.0	1066.3	1223.7	1274.0
65°	25137.6	26394.5	27642.0	28255.9	28287.7	20046.9	11295.4	2210.7	1005.4	1229.0	1332.2
67.5°	23042.0	24382.2	25836.2	26522.8	26681.5	18454.0	9778.0	1817.7	906.2	1176.0	1353.4
70°	19460.8	20769.2	22253.6	22928.3	23210.1	15731.3	7875.6	1401.0	779.2	1059.7	1309.7
72.5°	15331.8	16615.0	17648.3	18141.9	18361.4	12024.4	5735.0	1058.4	638.9	892.9	1192.0
75°	10854.9	11818.0	12367.0	12476.9	12511.3	7248.5	3484.8	787.2	526.5	694.6	1006.9
77.5°	6126.6	6539.3	6494.5	6543.4	6135.9	2798.0	1517.4	563.6	434.0	527.8	780.5
80°	2391.9	2466.0	2316.6	2270.2	2082.4	1041.1	669.4	392.9	346.6	399.6	546.4
82.5°	1054.4	1088.8	1057.1	1065.0	1018.8	537.1	400.9	284.4	264.6	292.4	362.5
85°	580.8	591.3	588.7	606.0	580.8	214.3	190.5	174.6	185.2	198.5	232.8
87.5°	283.1	285.7	276.5	291.0	281.8	108.5	94.0	99.2	108.5	111.1	111.1
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°	2271.5	2271.5	2271.5	2271.5	2271.5	2271.5
2.5°	2145.9	2135.3	2136.6	2134.0	2128.7	2128.7
5°	2127.3	2116.8	2116.8	2114.0	2107.5	2108.8
7.5°	2145.9	2128.7	2122.1	2112.7	2103.5	2103.5
10°	2167.0	2136.6	2118.1	2102.1	2090.2	2090.2
12.5°	2182.9	2135.3	2104.9	2083.7	2071.8	2071.8
15°	2188.1	2125.9	2083.7	2058.6	2047.9	2046.7
17.5°	2171.0	2090.2	2038.7	2009.6	1996.3	1992.4
20°	2118.1	2025.4	1963.3	1930.2	1911.7	1905.1
22.5°	2038.7	1932.8	1860.1	1825.7	1801.9	1797.9
25°	1927.6	1813.8	1742.3	1709.3	1696.0	1692.1
27.5°	1797.9	1692.1	1631.2	1610.1	1598.1	1596.9
30°	1674.8	1585.0	1539.9	1524.0	1509.5	1506.9
32.5°	1559.7	1502.9	1485.7	1463.2	1428.8	1424.8
35°	1477.7	1472.5	1460.6	1410.3	1367.9	1356.0
37.5°	1427.5	1476.4	1415.6	1316.3	1285.9	1283.2
40°	1398.4	1435.4	1330.9	1296.5	1299.2	1296.5
42.5°	1332.2	1370.5	1333.5	1317.6	1328.3	1330.9
45°	1266.1	1308.4	1353.4	1342.8	1367.9	1367.9
47.5°	1229.0	1292.5	1352.1	1352.1	1389.1	1402.4
50°	1186.7	1279.3	1330.9	1349.5	1378.6	1367.9
52.5°	1184.1	1256.8	1300.5	1333.5	1346.7	1334.8
55°	1187.9	1238.4	1270.0	1307.1	1322.9	1324.3
57.5°	1193.3	1227.7	1248.9	1266.1	1313.8	1313.8
60°	1206.5	1218.5	1230.4	1239.6	1301.9	1303.1
62.5°	1227.7	1209.2	1206.5	1215.8	1295.2	1290.0
65°	1260.8	1196.0	1176.0	1185.4	1288.6	1272.7
67.5°	1305.7	1176.0	1137.7	1144.4	1283.2	1248.9
70°	1346.7	1144.4	1090.1	1083.6	1233.0	1172.2
72.5°	1350.8	1107.4	1024.0	1004.1	1071.7	1013.4
75°	1284.6	1082.2	951.2	892.9	885.1	877.2
77.5°	1157.6	1067.7	866.5	775.3	759.4	764.7
80°	968.4	1013.4	764.7	656.2	742.2	732.9
82.5°	723.7	894.3	649.5	580.8	579.5	512.0
85°	402.2	697.2	529.2	435.3	302.9	293.7
87.5°	112.4	387.7	370.4	246.1	168.0	174.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)