

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: P192215

Luminaire Tested: **GAN-AF-07-LED-U-T2R-7050-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192215
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-7050-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43863 lumens
Efficiency: N/A
Efficacy: 112.2 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

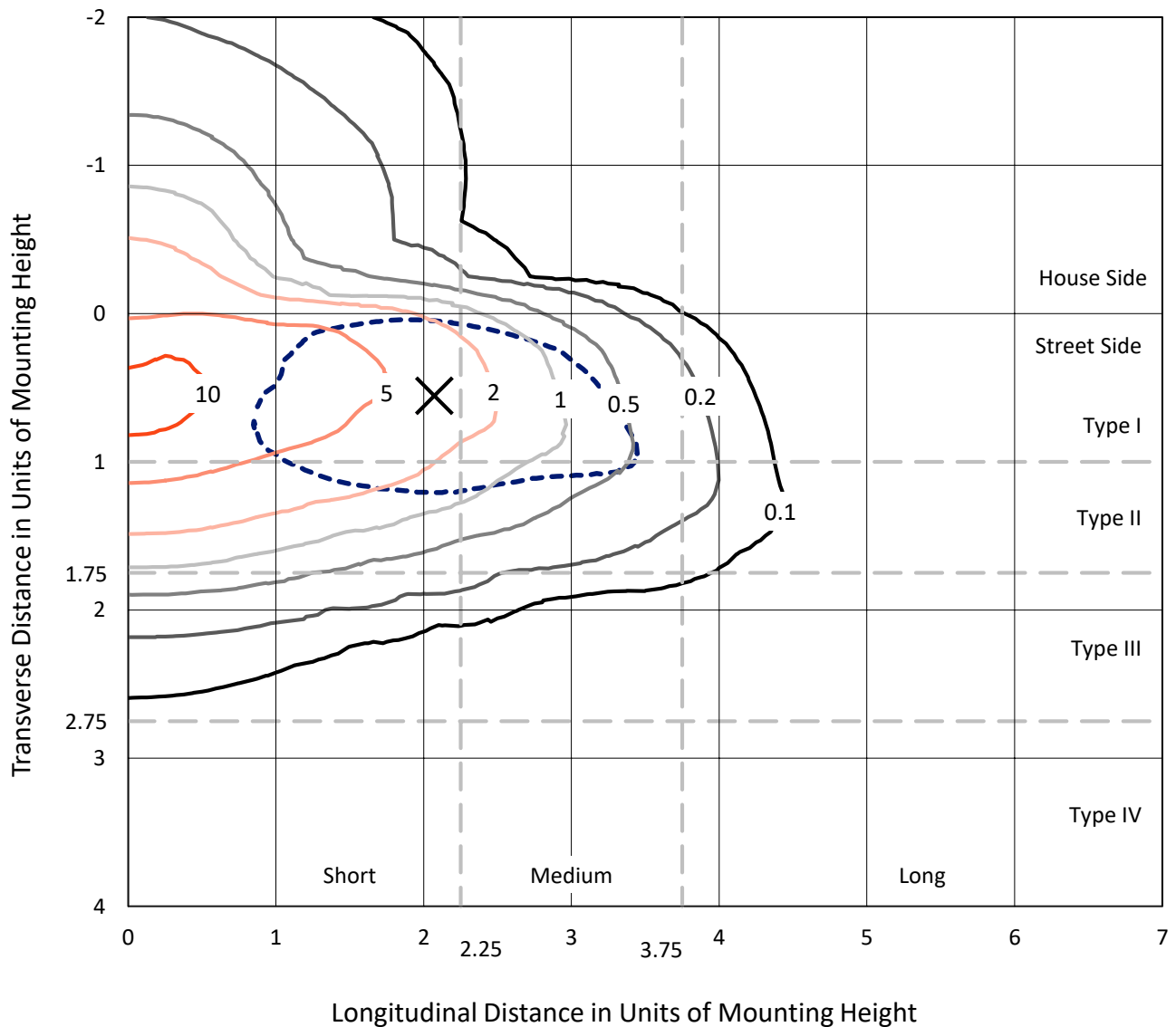
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

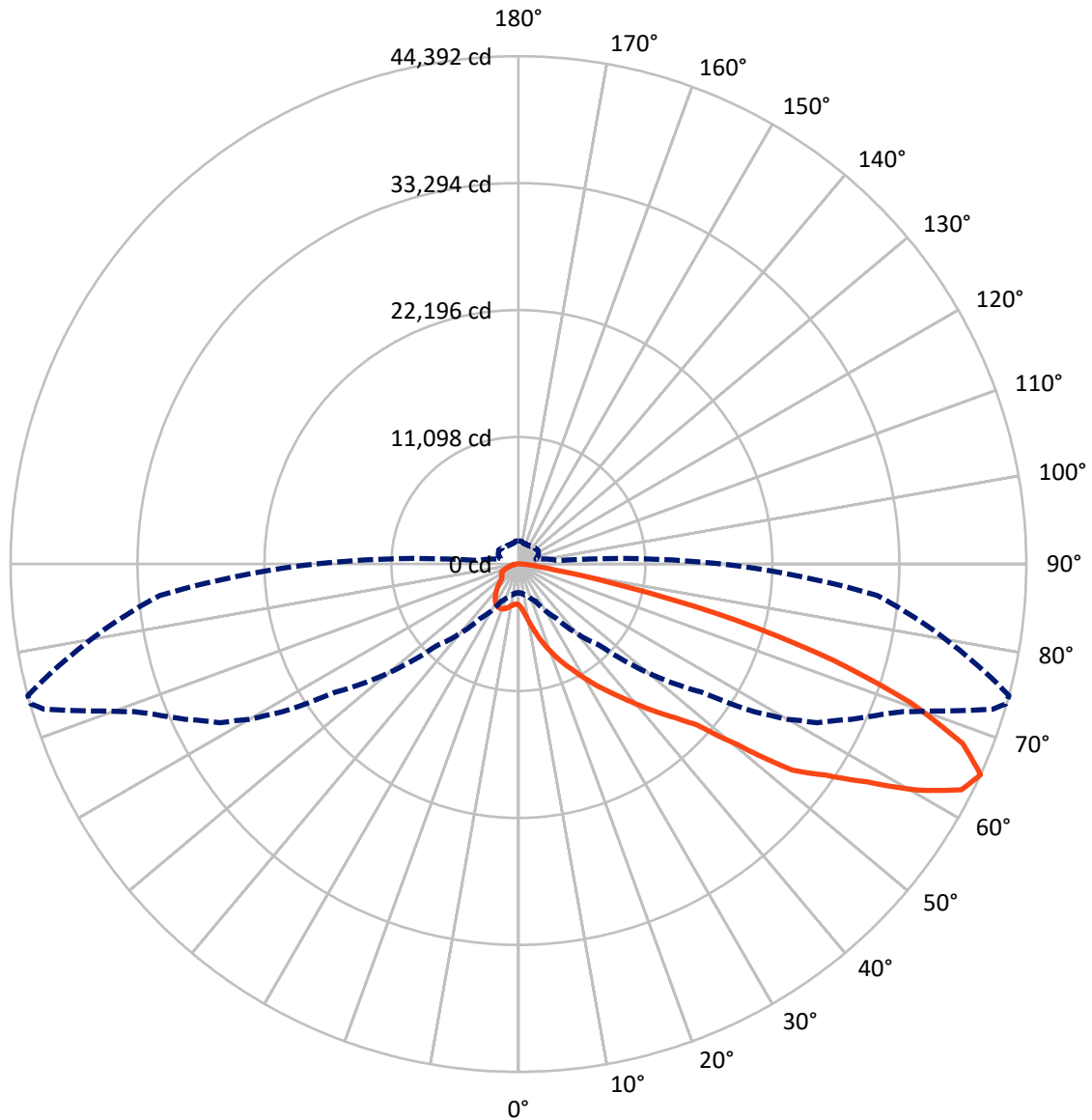
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 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	6762.6	0.0	6762.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	37100.4	0.0	37100.4
	% Fixture	84.6	0.0	84.6
Total	Lumens	43863.0	0.0	43863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.6	1.0
10°-20°	1721.6	3.9
20°-30°	3532.1	8.1
30°-40°	5942.5	13.5
40°-50°	8210.9	18.7
50°-60°	10249.7	23.4
60°-70°	9223.6	21.0
70°-80°	3866.5	8.8
80°-90°	675.5	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°	43863.0	100.0
0°-180°	43863.0	100.0

Coefficient of Utilization



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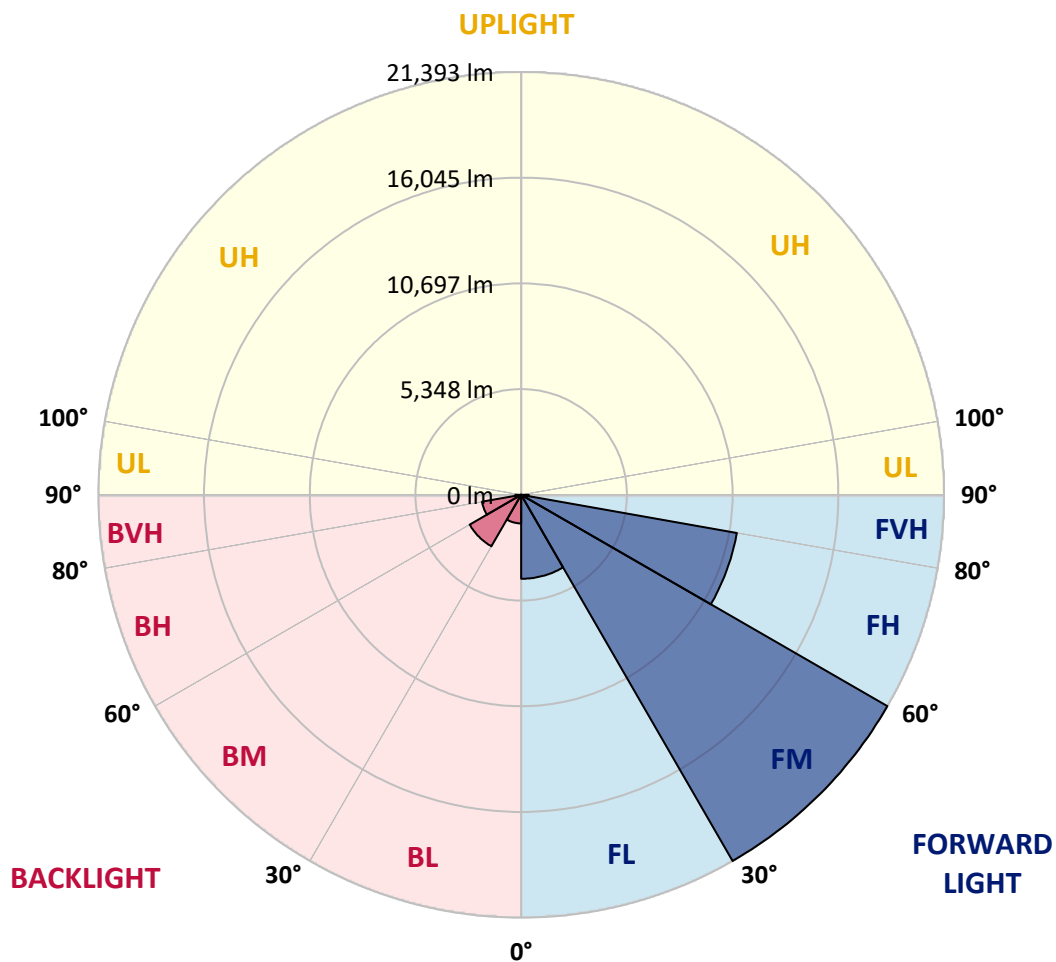
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4248.0	9.7			
FM	(30°-60°)	21393.0	48.8			
FH	(60°-80°)	11079.6	25.3			G4/12000
FVH	(80°-90°)	379.7	0.9			G3/500
BL	(0°-30°)	1446.3	3.3	B3/2500		
BM	(30°-60°)	3010.1	6.9	B3/5000		
BH	(60°-80°)	2010.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	295.8	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7
2.5°	4526.0	4476.1	4488.6	4405.5	4303.8	4170.9	4023.5	4021.5	4023.5	4009.0	3955.0
5°	6276.1	6215.9	6193.1	6006.2	5732.2	5341.9	4918.3	4872.7	4854.0	4806.2	4696.2
7.5°	7552.9	7519.7	7484.4	7343.3	7094.1	6658.1	6089.3	5991.7	5898.3	5875.4	5750.9
10°	8377.2	8368.9	8294.1	8256.8	8101.0	7723.2	7168.9	7075.4	6973.7	6938.4	6807.6
12.5°	9029.1	9027.0	8991.7	9002.1	8867.1	8593.1	8115.6	8030.5	7955.7	7847.8	7754.3
15°	9479.6	9481.7	9533.6	9591.7	9570.9	9386.2	8937.7	8900.4	8836.0	8761.3	8651.2
17.5°	9849.1	9859.5	9913.5	10019.4	10133.6	10119.0	9764.0	9732.9	9676.8	9575.1	9517.0
20°	10683.7	10723.2	10619.4	10619.4	10631.8	10687.9	10517.7	10492.7	10413.8	10359.9	10314.2
22.5°	12093.4	12139.1	11904.5	11665.8	11431.1	11260.9	11090.7	11121.8	11067.8	11030.5	11003.5
25°	13924.6	13959.9	13579.9	13177.2	12699.7	12076.8	11655.4	11636.7	11607.6	11584.8	11572.3
27.5°	15647.8	15662.3	15303.1	14713.5	14159.2	13264.4	12228.4	12205.5	12170.2	12126.7	12089.3
30°	17121.8	17117.7	16748.1	16185.5	15591.7	14601.4	13098.3	13027.7	12923.9	12805.5	12714.2
32.5°	18398.6	18392.4	17987.6	17404.2	16781.3	15926.0	14290.0	14144.6	13982.7	13752.3	13613.2
35°	19403.5	19399.3	19017.3	18409.0	17694.8	17173.7	15656.1	15477.5	15272.0	14962.6	14748.8
37.5°	19783.4	19783.4	19569.6	19154.3	18523.2	18166.1	17173.7	16957.8	16737.7	16386.9	16146.0
40°	19561.3	19565.4	19611.1	19534.3	19227.0	18953.0	18589.6	18460.9	18272.0	17956.4	17705.2
42.5°	18815.9	18838.8	19141.9	19513.5	19667.1	19623.5	19845.7	19787.6	19654.7	19411.8	19212.5
45°	17871.3	17941.9	18274.1	18975.8	19789.6	20202.8	20898.3	20904.5	20879.6	20748.8	20595.2
47.5°	16573.7	16673.4	17111.4	18060.2	19503.1	20765.4	21967.5	22023.5	22075.4	21990.3	21919.7
50°	14850.5	14968.9	15624.9	16883.1	18919.7	21348.8	23987.6	24240.8	24477.5	24448.5	24496.2
52.5°	13004.9	13144.0	13947.4	15348.8	17917.0	21483.7	25278.9	25692.1	26105.2	26443.6	26802.8
55°	11339.8	11265.1	12068.5	13544.6	16268.5	20875.4	26439.5	26937.7	27398.6	27813.9	28241.5
57.5°	9083.0	9205.5	10011.1	11470.6	14086.5	19158.5	27238.8	27967.5	28629.8	29317.0	29923.2
60°	6639.4	6761.9	7636.0	9118.3	11717.7	16555.0	26628.4	27732.9	28793.8	29846.4	30668.5
62.5°	4009.0	4100.3	4870.6	6282.4	9035.3	13467.8	23908.7	25357.8	26919.0	28177.2	29437.4
65°	2495.5	2547.4	2831.8	3608.3	5802.8	10054.7	19534.3	21114.2	22795.9	24392.4	25702.4
67.5°	2042.9	2061.6	2113.5	2279.6	3186.9	6556.4	14539.1	15938.4	17456.1	19000.7	20458.1
70°	1837.4	1824.9	1824.9	1835.3	2042.9	3525.3	9519.0	10430.5	11694.8	13038.1	14370.9
72.5°	1658.8	1646.4	1623.5	1592.4	1667.1	2150.9	4920.4	5607.6	6519.0	7712.8	8989.6
75°	1490.7	1474.0	1447.1	1407.6	1459.5	1623.5	2362.6	2651.2	3095.5	3730.8	4442.9
77.5°	1316.3	1295.5	1270.6	1241.5	1308.0	1262.3	1384.8	1488.6	1658.8	1862.3	2130.1
80°	1119.0	1100.3	1092.0	1077.5	1156.4	961.2	977.9	1042.2	1141.9	1251.9	1376.5
82.5°	876.1	876.1	909.3	915.6	1002.8	691.3	730.8	786.9	838.8	896.9	955.0
85°	577.2	581.3	693.4	737.0	791.0	465.1	548.1	566.8	608.3	641.5	666.4
87.5°	180.6	195.2	423.5	469.2	454.7	263.7	336.3	344.6	373.7	396.5	417.3
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°	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7
2.5°	3955.0	3930.1	3907.3	3905.2	3888.6	3865.7	3874.1	3838.8	3840.8	3822.1	3801.4
5°	4650.5	4633.9	4550.9	4528.0	4465.7	4426.3	4420.1	4337.0	4326.6	4278.9	4227.0
7.5°	5651.2	5597.2	5481.0	5424.9	5319.0	5240.1	5202.8	5092.7	5038.8	4914.2	4858.1
10°	6699.7	6631.1	6487.9	6409.0	6307.3	6180.6	6112.1	5952.3	5890.0	5775.8	5638.8
12.5°	7671.3	7602.8	7455.4	7395.2	7260.2	7125.3	7050.5	6869.9	6788.9	6606.2	6498.3
15°	8570.2	8501.7	8373.0	8310.7	8175.8	8065.7	7966.1	7787.5	7692.0	7521.8	7380.6
17.5°	9442.2	9369.6	9257.4	9201.4	9070.6	8958.5	8850.5	8682.4	8584.8	8414.5	8287.9
20°	10251.9	10197.9	10117.0	10042.2	9911.4	9809.7	9681.0	9535.6	9394.5	9269.9	9149.5
22.5°	10957.8	10937.0	10849.8	10816.6	10704.5	10617.3	10505.2	10361.9	10260.2	10102.4	9990.3
25°	11566.1	11559.9	11518.3	11508.0	11429.1	11346.0	11321.1	11202.8	11109.3	10970.2	10854.0
27.5°	12089.3	12095.5	12085.1	12114.2	12093.4	12056.1	12058.1	12018.7	11964.7	11848.4	11746.7
30°	12670.6	12637.4	12656.1	12697.6	12710.0	12714.2	12782.7	12805.5	12801.4	12724.6	12674.7
32.5°	13492.7	13413.8	13341.2	13335.0	13376.5	13393.1	13509.3	13569.6	13621.5	13640.1	13648.5
35°	14541.2	14383.4	14231.8	14150.9	14080.3	14099.0	14182.0	14279.6	14393.8	14472.7	14566.1
37.5°	15861.6	15668.5	15400.7	15209.7	15161.9	15058.1	15112.1	15188.9	15301.0	15423.5	15585.5
40°	17462.3	17169.6	16868.5	16615.2	16478.2	16287.2	16285.1	16270.6	16339.1	16453.3	16681.7
42.5°	19002.8	18743.3	18423.5	18157.8	17979.2	17723.9	17672.0	17537.0	17568.2	17667.8	17890.0
45°	20445.7	20231.8	20036.7	19729.4	19577.9	19301.7	19214.5	19054.7	18965.4	19011.1	19233.2
47.5°	21842.9	21705.9	21502.4	21303.1	21186.9	20939.8	20827.7	20713.5	20599.3	20595.2	20827.7
50°	24566.8	24494.1	24253.3	24045.7	24101.7	23798.6	23817.3	23510.0	23649.1	23665.8	24153.6
52.5°	27126.7	27379.9	27558.5	27776.5	27917.7	27944.7	28038.1	28177.2	28345.3	28677.5	29130.1
55°	28592.4	28910.1	29094.8	29260.9	29535.0	29593.1	29748.8	29933.6	30081.0	30454.7	30838.8
57.5°	30334.3	30923.9	31210.4	31474.1	31843.6	31984.8	32244.3	32445.7	32636.7	33078.9	33544.0
60°	31407.6	32126.0	32709.4	33126.7	33589.6	33921.8	34314.2	34629.8	35078.2	35607.6	36301.1
62.5°	30554.3	31609.0	32383.4	33099.7	33728.7	34364.0	34926.7	35516.3	36197.3	36998.6	38074.1
65°	27155.7	28229.1	29555.7	30299.0	31131.5	32111.4	32966.8	33921.8	34849.8	36016.6	37606.9
67.5°	21861.6	23109.4	24600.0	25349.5	26306.6	27400.7	28359.9	29526.7	30610.4	32024.2	33990.3
70°	15757.8	17370.9	18624.9	19407.6	20524.6	21651.9	22577.9	23935.7	24832.5	26281.7	28314.2
72.5°	9977.9	11250.5	12786.9	13773.0	14765.4	15907.3	16854.0	18024.9	18861.6	20182.0	22023.5
75°	5364.7	6303.1	7652.6	8588.9	9651.9	10627.7	11736.3	12521.1	13139.8	14184.1	15678.9
77.5°	2514.2	3085.1	3768.2	4488.6	5209.0	5960.6	6691.4	7326.6	7592.4	8190.3	9072.7
80°	1526.0	1710.7	1910.0	2132.2	2433.2	2676.1	2997.9	3230.5	3247.1	3436.0	3705.9
82.5°	1019.4	1087.9	1148.1	1204.2	1281.0	1341.2	1409.7	1490.7	1523.9	1567.5	1654.7
85°	695.5	728.7	741.2	776.5	768.2	788.9	815.9	842.9	857.4	855.4	894.8
87.5°	427.7	444.3	452.6	460.9	454.7	446.4	458.8	473.4	477.5	465.1	469.2
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°	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7
2.5°	3805.5	3786.9	3768.2	3755.7	3751.6	3641.5	3593.8	3562.6	3496.2	3442.2	3398.6
5°	4197.9	4158.5	4127.3	4090.0	4069.2	3791.0	3689.3	3618.7	3502.4	3433.9	3371.6
7.5°	4829.1	4719.0	4654.7	4582.0	4519.7	4017.3	3849.1	3739.1	3577.2	3485.8	3415.2
10°	5545.3	5431.1	5329.4	5217.3	5119.7	4318.3	4073.4	3903.1	3689.3	3570.9	3477.5
12.5°	6344.6	6232.5	6103.8	5960.6	5836.0	4700.3	4359.9	4117.0	3824.2	3666.4	3535.6
15°	7289.3	7092.0	6936.3	6770.2	6624.9	5157.1	4694.1	4357.8	3967.5	3753.6	3579.2
17.5°	8167.5	7959.9	7748.1	7602.8	7434.6	5669.9	5030.5	4602.8	4085.8	3809.7	3587.5
20°	9024.9	8798.6	8615.9	8420.8	8244.3	6201.4	5389.6	4818.7	4162.6	3811.8	3535.6
22.5°	9780.6	9639.5	9436.0	9224.2	9045.7	6732.9	5726.0	5001.4	4191.7	3764.0	3444.3
25°	10640.1	10490.7	10241.5	10063.0	9863.7	7274.7	6056.1	5142.6	4175.1	3674.7	3303.1
27.5°	11557.8	11391.7	11136.3	10949.5	10708.7	7837.4	6359.2	5244.3	4112.8	3529.4	3114.2
30°	12514.9	12363.3	12112.1	11923.2	11680.3	8433.2	6697.6	5312.8	3988.2	3328.0	2894.1
32.5°	13542.6	13415.9	13166.8	12969.6	12710.0	9078.9	7013.2	5333.6	3799.3	3089.3	2661.6
35°	14518.3	14431.1	14221.5	14036.7	13766.8	9689.3	7347.4	5323.2	3575.1	2827.7	2449.8
37.5°	15616.6	15564.7	15460.9	15226.3	14896.2	10517.7	7748.1	5279.6	3301.0	2568.2	2287.9
40°	16787.6	16791.7	16679.6	16519.7	16212.5	11522.5	8225.6	5194.5	3002.1	2339.8	2140.5
42.5°	18027.0	18091.4	18037.4	17923.2	17628.4	12535.6	8796.5	5090.7	2711.4	2117.6	1995.2
45°	19447.1	19526.0	19609.0	19440.8	19154.3	13872.7	9548.1	4955.7	2397.9	1932.9	1895.5
47.5°	21085.1	21209.7	21284.4	21286.5	21000.0	15529.4	10768.9	4874.7	2119.7	1808.3	1847.8
50°	24541.9	24581.3	24757.8	25065.1	24845.0	19364.0	12901.0	4824.9	1930.8	1731.5	1812.5
52.5°	29522.5	29956.4	30261.6	30240.8	29941.9	21799.3	14076.1	4567.5	1818.7	1702.4	1795.8
55°	31550.9	32092.8	32657.5	32806.9	32574.4	23877.5	15186.9	4310.0	1764.7	1723.2	1802.1
57.5°	34254.0	35167.5	35941.9	36267.8	35931.5	26537.0	16648.5	4175.1	1748.1	1779.2	1841.5
60°	37411.8	38541.2	39558.5	40144.0	40144.0	29593.1	18164.0	4119.0	1725.3	1862.3	1908.0
62.5°	39440.2	41099.0	42635.3	43492.8	43467.8	31721.1	18836.7	3928.0	1673.4	1920.4	1999.3
65°	39448.5	41420.8	43378.6	44341.9	44391.7	31459.5	17726.0	3469.2	1577.9	1928.7	2090.7
67.5°	36159.9	38263.0	40544.7	41622.2	41871.3	28959.9	15344.6	2852.6	1422.1	1845.7	2123.9
70°	30539.8	32593.1	34922.5	35981.3	36423.5	24687.2	12359.2	2198.6	1222.8	1663.0	2055.4
72.5°	24060.2	26074.1	27695.5	28469.9	28814.5	18869.9	9000.0	1660.9	1002.8	1401.4	1870.6
75°	17034.6	18546.0	19407.6	19579.9	19633.9	11375.1	5468.5	1235.3	826.3	1090.0	1579.9
77.5°	9614.5	10262.3	10191.7	10268.5	9629.1	4391.0	2381.3	884.4	681.0	828.4	1224.9
80°	3753.6	3869.9	3635.3	3562.6	3267.8	1633.9	1050.5	616.6	543.9	627.0	857.4
82.5°	1654.7	1708.7	1658.8	1671.3	1598.6	842.9	629.1	446.4	415.2	458.8	568.9
85°	911.4	928.0	923.9	950.9	911.4	336.3	299.0	274.0	290.7	311.4	365.4
87.5°	444.3	448.4	433.9	456.7	442.2	170.2	147.4	155.7	170.2	174.4	174.4
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):

	135°	145°	155°	165°	175°	180°
0°	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7
2.5°	3367.5	3350.9	3352.9	3348.8	3340.5	3340.5
5°	3338.4	3321.8	3321.8	3317.6	3307.3	3309.3
7.5°	3367.5	3340.5	3330.1	3315.6	3301.0	3301.0
10°	3400.7	3352.9	3323.9	3299.0	3280.3	3280.3
12.5°	3425.6	3350.9	3303.1	3269.9	3251.2	3251.2
15°	3433.9	3336.3	3269.9	3230.5	3213.8	3211.8
17.5°	3406.9	3280.3	3199.3	3153.6	3132.9	3126.6
20°	3323.9	3178.5	3081.0	3029.1	3000.0	2989.6
22.5°	3199.3	3033.2	2919.0	2865.1	2827.7	2821.5
25°	3024.9	2846.4	2734.3	2682.4	2661.6	2655.4
27.5°	2821.5	2655.4	2559.9	2526.6	2508.0	2505.9
30°	2628.4	2487.2	2416.6	2391.7	2368.9	2364.7
32.5°	2447.8	2358.5	2331.5	2296.2	2242.2	2236.0
35°	2319.0	2310.7	2292.0	2213.1	2146.7	2128.0
37.5°	2240.1	2317.0	2221.5	2065.7	2018.0	2013.8
40°	2194.5	2252.6	2088.6	2034.6	2038.8	2034.6
42.5°	2090.7	2150.9	2092.7	2067.8	2084.4	2088.6
45°	1986.9	2053.3	2123.9	2107.3	2146.7	2146.7
47.5°	1928.7	2028.4	2121.8	2121.8	2179.9	2200.7
50°	1862.3	2007.6	2088.6	2117.6	2163.3	2146.7
52.5°	1858.1	1972.3	2040.8	2092.7	2113.5	2094.8
55°	1864.4	1943.3	1993.1	2051.2	2076.1	2078.2
57.5°	1872.7	1926.6	1959.9	1986.9	2061.6	2061.6
60°	1893.4	1912.1	1930.8	1945.3	2042.9	2045.0
62.5°	1926.6	1897.6	1893.4	1908.0	2032.5	2024.2
65°	1978.5	1876.8	1845.7	1860.2	2022.1	1997.2
67.5°	2049.1	1845.7	1785.5	1795.8	2013.8	1959.9
70°	2113.5	1795.8	1710.7	1700.3	1934.9	1839.4
72.5°	2119.7	1737.7	1606.9	1575.8	1681.7	1590.3
75°	2015.9	1698.3	1492.7	1401.4	1388.9	1376.5
77.5°	1816.6	1675.4	1359.9	1216.6	1191.7	1200.0
80°	1519.7	1590.3	1200.0	1029.8	1164.7	1150.2
82.5°	1135.6	1403.5	1019.4	911.4	909.3	803.5
85°	631.1	1094.1	830.5	683.0	475.4	460.9
87.5°	176.5	608.3	581.3	386.2	263.7	274.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)