

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: P266863

Luminaire Tested: **GAN-AF-04-LED-U-T2R-7027-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266863
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-04-LED-U-T2R-7027-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 23842.1 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 258
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

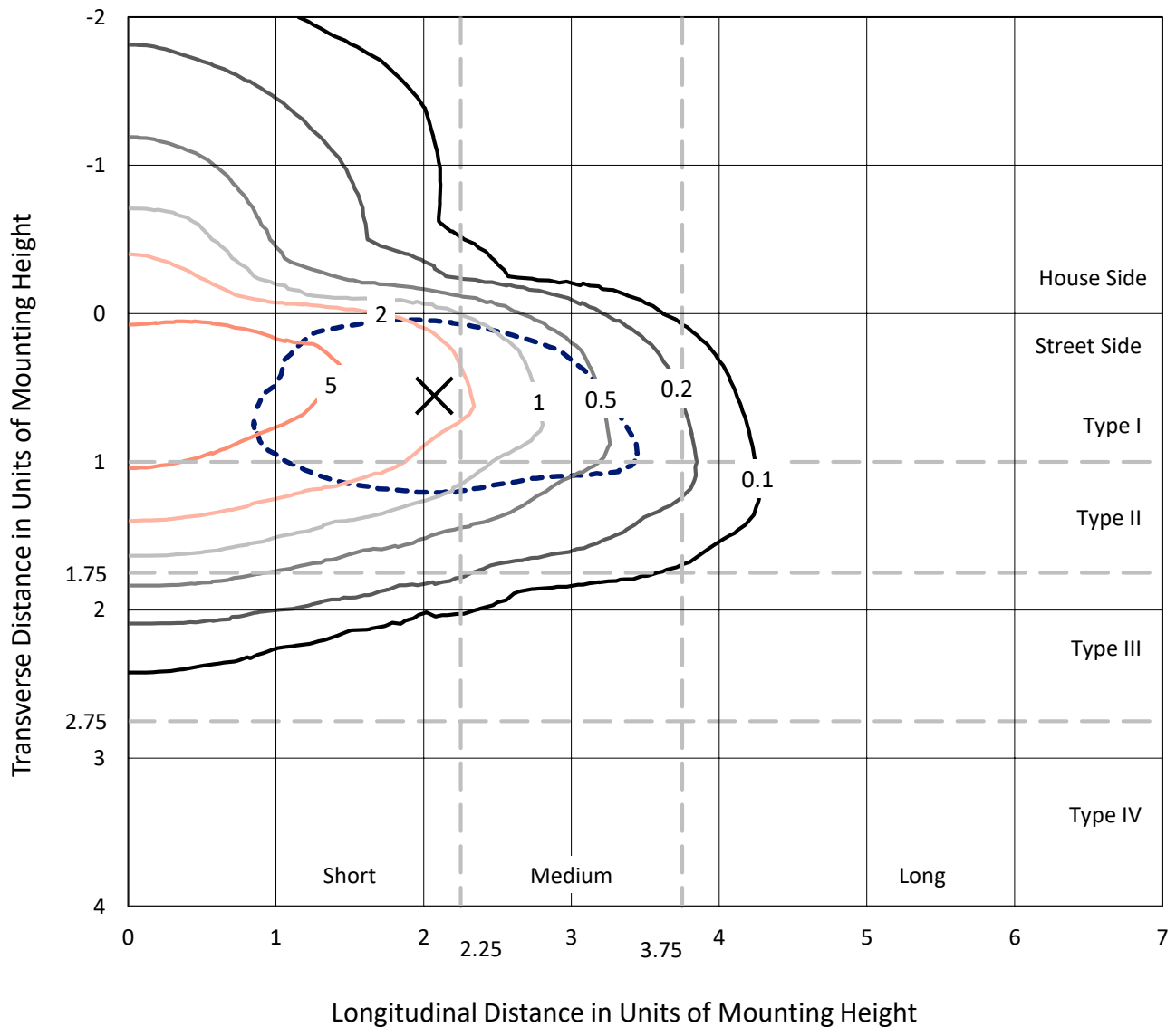


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

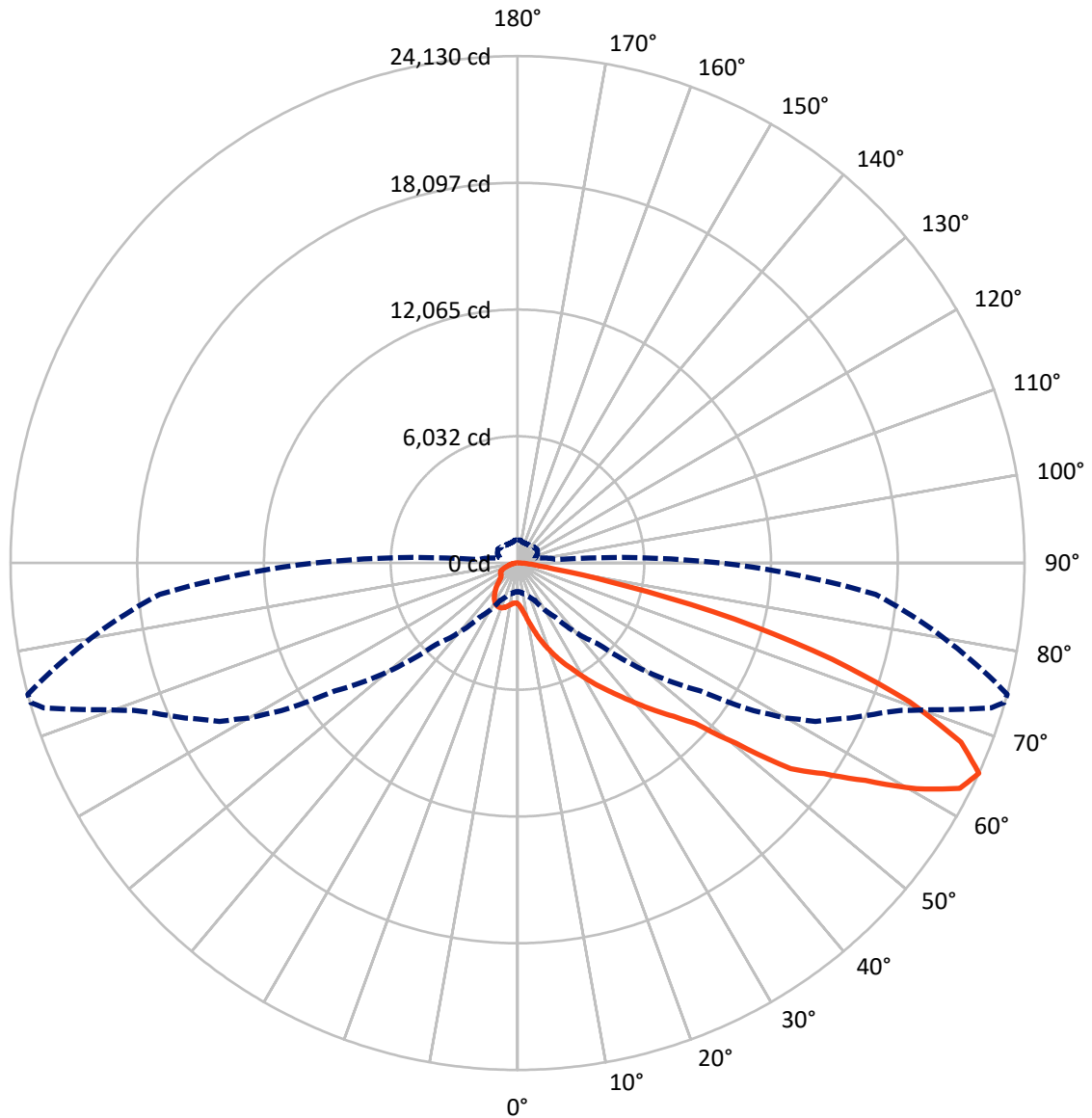


Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - Full Cutoff

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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	3675.9	0.0	3675.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	20166.3	0.0	20166.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	23842.1	0.0	23842.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.5	1.0
10°-20°	935.8	3.9
20°-30°	1919.9	8.1
30°-40°	3230.1	13.5
40°-50°	4463.1	18.7
50°-60°	5571.3	23.4
60°-70°	5013.6	21.0
70°-80°	2101.6	8.8
80°-90°	367.2	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°	23842.1	100.0
0°-180°	23842.1	100.0



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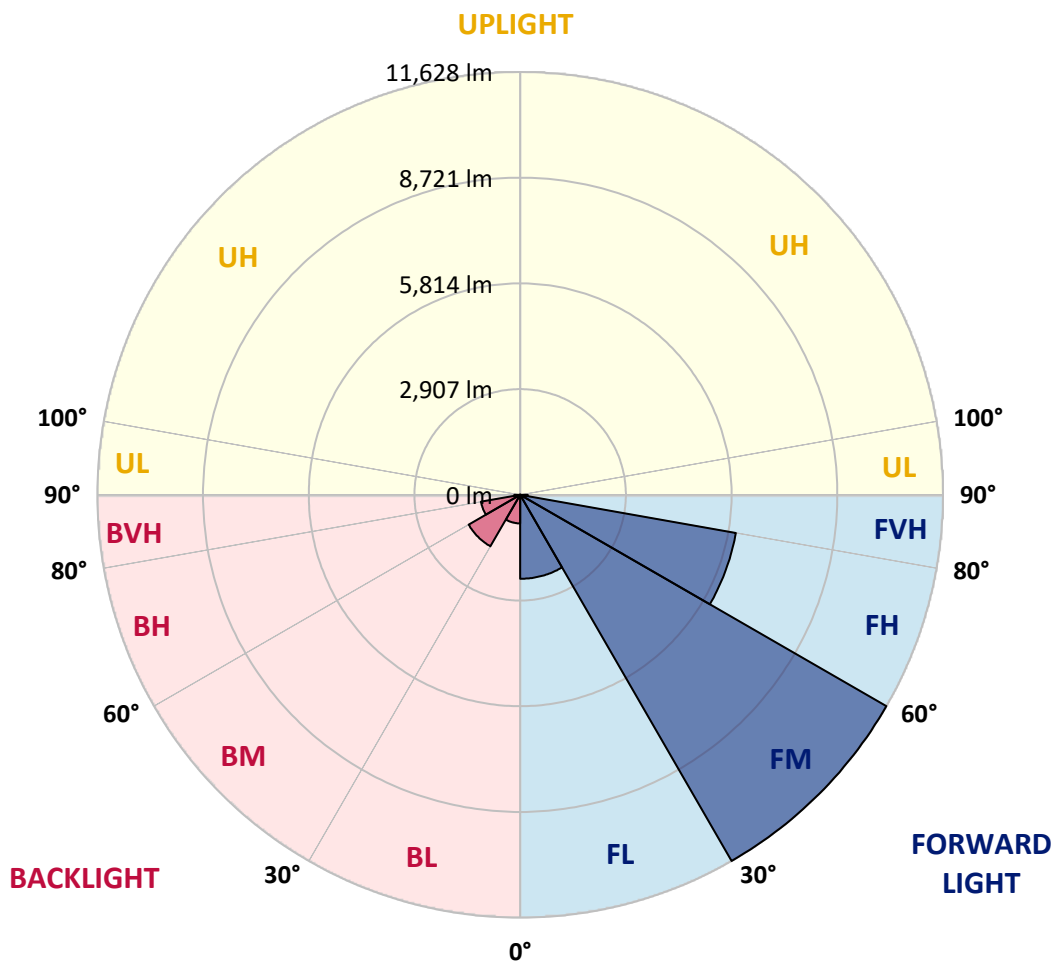
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2309.0	9.7			
FM (30°-60°)	11628.4	48.8			
FH (60°-80°)	6022.4	25.3			G3/7500
FVH (80°-90°)	206.4	0.9			G2/225
BL (0°-30°)	786.1	3.3	B2/1000		
BM (30°-60°)	1636.2	6.9	B2/2500		
BH (60°-80°)	1092.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	160.8	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°	1937.6	1937.6	1937.6	1937.6	1937.6	1937.6	1937.6	1937.6	1937.6	1937.6	1937.6
2.5°	2460.1	2433.0	2439.7	2394.7	2339.4	2267.1	2187.1	2185.8	2187.1	2179.1	2149.9
5°	3411.5	3378.7	3366.3	3264.7	3115.9	2903.6	2673.4	2648.7	2638.4	2612.5	2552.7
7.5°	4105.4	4087.4	4068.2	3991.4	3856.1	3619.1	3309.9	3256.9	3206.1	3193.7	3125.9
10°	4553.5	4548.9	4508.4	4488.0	4403.4	4198.0	3896.7	3846.0	3790.6	3771.4	3700.4
12.5°	4907.8	4906.7	4887.5	4893.2	4819.9	4670.8	4411.2	4365.0	4324.4	4265.7	4214.9
15°	5152.7	5153.8	5182.1	5213.7	5202.4	5102.0	4858.2	4837.9	4802.9	4762.3	4702.4
17.5°	5353.5	5359.3	5388.6	5446.2	5508.1	5500.3	5307.4	5290.4	5259.9	5204.6	5173.0
20°	5807.3	5828.7	5772.2	5772.2	5779.1	5809.5	5717.0	5703.3	5660.5	5631.2	5606.4
22.5°	6573.4	6598.3	6470.9	6341.0	6213.4	6121.1	6028.4	6045.4	6015.9	5995.6	5981.1
25°	7568.8	7588.1	7381.6	7162.5	6903.0	6564.5	6335.3	6325.2	6309.4	6296.9	6290.2
27.5°	8505.5	8513.3	8318.1	7997.7	7696.4	7209.9	6646.9	6634.4	6615.3	6591.6	6571.2
30°	9306.7	9304.5	9103.7	8797.8	8475.0	7936.7	7119.6	7081.2	7024.8	6960.5	6910.9
32.5°	10000.7	9997.3	9777.3	9460.2	9121.7	8656.6	7767.5	7688.5	7600.4	7475.2	7399.6
35°	10546.9	10544.7	10337.1	10006.4	9618.2	9334.9	8510.1	8412.9	8301.2	8133.1	8016.8
37.5°	10753.5	10753.5	10637.2	10411.5	10068.5	9874.3	9334.9	9217.6	9097.9	8907.2	8776.4
40°	10632.7	10634.9	10659.7	10618.1	10451.1	10302.0	10104.6	10034.5	9931.9	9760.4	9623.8
42.5°	10227.6	10240.0	10404.8	10606.7	10690.3	10666.6	10787.2	10755.6	10683.5	10551.4	10443.2
45°	9714.1	9752.4	9933.1	10314.5	10756.8	10981.4	11359.4	11362.8	11349.2	11278.2	11194.7
47.5°	9008.8	9063.0	9301.1	9816.8	10601.1	11287.3	11940.6	11971.2	11999.3	11953.0	11914.7
50°	8072.1	8136.5	8493.0	9176.9	10283.9	11604.3	13038.7	13176.2	13304.9	13289.2	13315.1
52.5°	7068.9	7144.5	7581.2	8343.0	9739.0	11677.6	13740.6	13965.2	14189.7	14373.7	14568.9
55°	6163.9	6123.2	6560.0	7362.2	8842.9	11347.0	14371.4	14642.3	14892.8	15118.5	15351.0
57.5°	4937.2	5003.7	5441.7	6235.0	7656.9	10413.8	14805.9	15201.9	15562.0	15935.6	16265.0
60°	3608.9	3675.5	4150.6	4956.4	6369.3	8998.6	14474.1	15074.5	15651.1	16223.3	16670.1
62.5°	2179.1	2228.8	2647.5	3414.8	4911.3	7320.6	12995.8	13783.5	14632.1	15316.0	16001.0
65°	1356.4	1384.6	1539.2	1961.3	3154.2	5465.3	10618.1	11476.8	12391.0	13258.8	13970.8
67.5°	1110.5	1120.5	1148.8	1239.1	1732.2	3563.8	7902.8	8663.4	9488.3	10328.1	11120.2
70°	998.7	992.0	992.0	997.6	1110.5	1916.2	5174.1	5669.6	6356.9	7087.0	7811.4
72.5°	901.7	894.9	882.5	865.5	906.2	1169.1	2674.6	3048.0	3543.5	4192.4	4886.4
75°	810.2	801.3	786.6	765.1	793.4	882.5	1284.2	1441.2	1682.5	2028.0	2415.1
77.5°	715.5	704.2	690.6	674.8	711.0	686.1	752.7	809.2	901.7	1012.3	1157.8
80°	608.2	598.1	593.6	585.6	628.5	522.5	531.5	566.6	620.6	680.5	748.2
82.5°	476.2	476.2	494.2	497.8	545.0	375.9	397.2	427.8	455.9	487.5	519.1
85°	313.7	315.9	376.8	400.6	430.0	252.9	297.9	308.1	330.7	348.7	362.2
87.5°	98.2	106.1	230.2	255.1	247.2	143.3	182.8	187.3	203.1	215.6	226.8
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1937.6	1937.6	1937.6	1937.6	1937.6	1937.6	1937.6	1937.6	1937.6	1937.6	1937.6
2.5°	2149.9	2136.3	2123.9	2122.8	2113.7	2101.2	2105.7	2086.7	2087.8	2077.6	2066.3
5°	2527.8	2518.8	2473.7	2461.3	2427.4	2406.0	2402.5	2357.4	2351.9	2325.8	2297.7
7.5°	3071.8	3042.4	2979.1	2948.7	2891.3	2848.3	2828.0	2768.1	2738.8	2671.2	2640.7
10°	3641.6	3604.4	3526.6	3483.6	3428.4	3359.5	3322.3	3235.3	3201.6	3139.4	3064.9
12.5°	4169.8	4132.6	4052.4	4019.7	3946.3	3873.0	3832.3	3734.3	3690.1	3590.9	3532.1
15°	4658.4	4621.2	4551.3	4517.3	4444.1	4384.2	4330.0	4233.1	4181.2	4088.5	4011.8
17.5°	5132.3	5092.9	5031.9	5001.6	4930.3	4869.4	4810.9	4719.3	4666.3	4573.8	4505.0
20°	5572.5	5543.3	5499.2	5458.6	5387.4	5332.2	5262.2	5183.2	5106.4	5038.8	4973.2
22.5°	5956.2	5945.0	5897.6	5879.4	5818.5	5771.2	5710.2	5632.4	5577.0	5491.2	5430.3
25°	6286.9	6283.5	6260.8	6255.3	6212.4	6167.3	6153.7	6089.4	6038.5	5962.9	5899.8
27.5°	6571.2	6574.6	6568.9	6584.8	6573.4	6553.1	6554.4	6532.8	6503.5	6440.4	6385.1
30°	6887.2	6869.2	6879.3	6901.9	6908.7	6910.9	6948.2	6960.5	6958.4	6916.6	6889.6
32.5°	7334.1	7291.3	7251.7	7248.3	7270.9	7280.0	7343.1	7375.9	7404.1	7414.3	7418.7
35°	7903.9	7818.2	7735.8	7691.8	7653.5	7663.6	7708.7	7761.9	7823.9	7866.7	7917.5
37.5°	8621.8	8516.8	8371.1	8267.5	8241.4	8184.9	8214.3	8256.1	8317.0	8383.6	8471.6
40°	9491.9	9332.8	9169.0	9031.4	8956.9	8853.1	8852.0	8844.1	8881.3	8943.3	9067.5
42.5°	10329.2	10188.0	10014.2	9869.9	9772.8	9634.1	9605.8	9532.5	9549.3	9603.5	9724.2
45°	11113.4	10997.2	10891.1	10724.1	10641.7	10491.7	10444.2	10357.4	10308.8	10333.7	10454.5
47.5°	11872.9	11798.5	11687.8	11579.5	11516.4	11382.1	11321.1	11259.0	11197.0	11194.7	11321.1
50°	13353.6	13314.0	13183.0	13070.2	13100.7	12936.0	12946.2	12779.1	12854.7	12863.8	13129.0
52.5°	14745.0	14882.6	14979.6	15098.2	15174.9	15189.6	15240.4	15316.0	15407.4	15588.0	15834.0
55°	15541.7	15714.3	15814.8	15905.0	16054.0	16085.6	16170.2	16270.7	16350.8	16554.0	16762.7
57.5°	16488.5	16808.9	16964.8	17108.0	17308.9	17385.6	17526.7	17636.2	17740.0	17980.4	18233.2
60°	17071.8	17462.4	17779.4	18006.3	18258.1	18438.5	18651.8	18823.4	19067.2	19354.9	19731.8
62.5°	16608.1	17181.4	17602.3	17991.7	18333.6	18678.8	18984.7	19305.3	19675.3	20111.0	20695.5
65°	14760.8	15344.2	16065.3	16469.3	16921.8	17454.4	17919.4	18438.5	18943.0	19577.2	20441.7
67.5°	11883.0	12561.3	13371.6	13778.9	14299.2	14893.9	15415.3	16049.5	16638.5	17407.0	18475.8
70°	8565.2	9442.2	10123.8	10549.2	11156.3	11769.1	12272.5	13010.4	13497.9	14285.7	15390.4
72.5°	5423.5	6115.3	6950.5	7486.5	8025.8	8646.5	9161.2	9797.6	10252.4	10970.1	11971.2
75°	2916.1	3426.1	4159.6	4668.6	5246.5	5776.8	6379.5	6806.0	7142.2	7710.0	8522.4
77.5°	1366.6	1677.0	2048.2	2439.7	2831.4	3239.8	3637.1	3982.5	4127.0	4451.9	4931.5
80°	829.5	929.8	1038.3	1159.0	1322.7	1454.6	1629.5	1755.9	1765.0	1867.7	2014.4
82.5°	554.1	591.4	624.1	654.5	696.2	729.1	766.3	810.2	828.2	852.0	899.5
85°	378.0	396.2	402.9	422.1	417.5	428.9	443.6	458.1	466.1	465.0	486.4
87.5°	232.5	241.6	246.0	250.5	247.2	242.6	249.4	257.4	259.6	252.9	255.1
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°	1937.6	1937.6	1937.6	1937.6	1937.6	1937.6	1937.6	1937.6	1937.6	1937.6	1937.6
2.5°	2068.5	2058.3	2048.2	2041.5	2039.2	1979.3	1953.5	1936.4	1900.4	1871.1	1847.4
5°	2281.9	2260.3	2243.4	2223.1	2211.8	2060.6	2005.3	1967.0	1903.8	1866.6	1832.7
7.5°	2624.8	2565.1	2530.0	2490.6	2456.8	2183.6	2092.2	2032.4	1944.4	1894.7	1856.3
10°	3014.3	2952.2	2896.9	2835.9	2782.9	2347.4	2214.1	2121.5	2005.3	1941.0	1890.3
12.5°	3448.8	3387.8	3317.8	3239.8	3172.3	2554.9	2369.9	2237.8	2078.7	1992.9	1921.8
15°	3962.2	3854.9	3770.2	3680.0	3601.0	2803.3	2551.5	2368.7	2156.6	2040.3	1945.5
17.5°	4439.6	4326.6	4211.6	4132.6	4041.1	3081.9	2734.4	2501.9	2220.9	2070.9	1950.0
20°	4905.6	4782.5	4683.3	4577.1	4481.3	3370.8	2929.6	2619.3	2262.7	2071.9	1921.8
22.5°	5316.3	5239.6	5129.1	5013.9	4916.9	3659.8	3112.4	2718.5	2278.5	2046.0	1872.2
25°	5783.6	5702.4	5566.8	5469.8	5361.5	3954.2	3291.7	2795.3	2269.4	1997.4	1795.4
27.5°	6282.3	6192.0	6053.3	5951.7	5820.7	4260.1	3456.6	2850.6	2235.5	1918.4	1692.8
30°	6802.5	6720.2	6583.7	6480.9	6349.0	4584.0	3640.6	2887.8	2167.8	1808.9	1573.1
32.5°	7361.3	7292.4	7156.9	7049.7	6908.7	4934.8	3812.0	2899.1	2065.2	1679.2	1446.7
35°	7891.6	7844.2	7730.3	7629.8	7483.2	5266.8	3993.8	2893.5	1943.3	1537.0	1331.6
37.5°	8488.5	8460.3	8404.0	8276.4	8097.0	5717.0	4211.6	2869.7	1794.4	1396.0	1243.7
40°	9125.1	9127.3	9066.4	8979.5	8812.5	6263.2	4471.1	2823.6	1631.9	1271.8	1163.5
42.5°	9798.7	9833.7	9804.5	9742.3	9582.1	6813.9	4781.5	2767.0	1473.8	1151.1	1084.4
45°	10570.6	10613.6	10658.7	10567.2	10411.5	7540.6	5190.0	2693.7	1303.4	1050.7	1030.4
47.5°	11461.0	11528.8	11569.4	11570.4	11414.8	8441.2	5853.5	2649.7	1152.2	982.9	1004.3
50°	13340.0	13361.4	13457.2	13624.4	13504.7	10525.5	7012.4	2622.6	1049.5	941.2	985.3
52.5°	16047.2	16283.0	16449.0	16437.6	16275.2	11849.3	7651.3	2482.6	988.6	925.3	976.2
55°	17149.8	17444.4	17751.2	17832.6	17706.1	12978.8	8255.0	2342.8	959.2	936.7	979.5
57.5°	18619.1	19115.7	19536.6	19713.8	19530.9	14424.4	9049.4	2269.4	950.1	967.1	1001.0
60°	20335.6	20949.5	21502.4	21820.5	21820.5	16085.6	9873.2	2238.9	937.8	1012.3	1037.2
62.5°	21438.1	22339.7	23174.8	23641.0	23627.4	17242.2	10238.8	2135.1	909.5	1043.9	1086.7
65°	21442.6	22514.7	23578.8	24102.5	24129.6	17100.1	9635.1	1885.7	857.6	1048.4	1136.4
67.5°	19655.0	20798.2	22038.5	22624.2	22759.5	15741.4	8340.8	1550.6	773.0	1003.2	1154.4
70°	16600.1	17716.4	18982.4	19558.0	19798.4	13419.1	6718.0	1195.0	664.7	904.0	1117.2
72.5°	13078.2	14172.7	15054.2	15475.1	15662.4	10256.8	4892.0	902.7	545.0	761.8	1016.8
75°	9259.3	10080.9	10549.2	10642.8	10672.3	6183.0	2972.4	671.5	449.2	592.4	858.8
77.5°	5226.1	5578.1	5539.8	5581.6	5234.0	2386.7	1294.4	480.8	370.1	450.3	665.9
80°	2040.3	2103.6	1976.0	1936.4	1776.3	888.2	571.1	335.2	295.6	340.7	466.1
82.5°	899.5	928.8	901.7	908.5	868.9	458.1	342.0	242.6	225.7	249.4	309.1
85°	495.4	504.5	502.2	516.9	495.4	182.8	162.6	148.9	158.0	169.3	198.6
87.5°	241.6	243.8	235.9	248.3	240.3	92.5	80.0	84.6	92.5	94.9	94.9
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):

	135°	145°	155°	165°	175°	180°
0°	1937.6	1937.6	1937.6	1937.6	1937.6	1937.6
2.5°	1830.4	1821.5	1822.5	1820.2	1815.7	1815.7
5°	1814.7	1805.7	1805.7	1803.3	1797.7	1798.9
7.5°	1830.4	1815.7	1810.2	1802.2	1794.4	1794.4
10°	1848.5	1822.5	1806.8	1793.1	1783.0	1783.0
12.5°	1862.0	1821.5	1795.4	1777.3	1767.2	1767.2
15°	1866.6	1813.5	1777.3	1755.9	1746.9	1745.8
17.5°	1851.9	1783.0	1738.9	1714.1	1702.8	1699.6
20°	1806.8	1727.7	1674.7	1646.5	1630.7	1625.0
22.5°	1738.9	1648.7	1586.6	1557.3	1537.0	1533.6
25°	1644.2	1547.2	1486.2	1457.9	1446.7	1443.3
27.5°	1533.6	1443.3	1391.5	1373.4	1363.2	1362.1
30°	1428.7	1351.9	1313.6	1300.0	1287.6	1285.4
32.5°	1330.5	1282.1	1267.2	1248.1	1218.8	1215.3
35°	1260.5	1256.0	1245.9	1203.0	1166.9	1156.7
37.5°	1217.7	1259.5	1207.5	1122.8	1096.9	1094.7
40°	1192.8	1224.4	1135.3	1106.0	1108.1	1106.0
42.5°	1136.4	1169.1	1137.6	1124.0	1133.0	1135.3
45°	1079.9	1116.1	1154.4	1145.3	1166.9	1166.9
47.5°	1048.4	1102.5	1153.3	1153.3	1185.0	1196.3
50°	1012.3	1091.3	1135.3	1151.1	1175.9	1166.9
52.5°	1010.1	1072.0	1109.2	1137.6	1148.8	1138.6
55°	1013.4	1056.2	1083.4	1114.9	1128.5	1129.6
57.5°	1017.9	1047.2	1065.3	1079.9	1120.5	1120.5
60°	1029.2	1039.3	1049.5	1057.5	1110.5	1111.6
62.5°	1047.2	1031.4	1029.2	1037.2	1104.7	1100.2
65°	1075.5	1020.1	1003.2	1011.1	1099.2	1085.6
67.5°	1113.8	1003.2	970.4	976.2	1094.7	1065.3
70°	1148.8	976.2	929.8	924.3	1051.7	999.9
72.5°	1152.2	944.6	873.4	856.5	914.0	864.3
75°	1095.8	923.1	811.3	761.8	754.9	748.2
77.5°	987.4	910.7	739.1	661.3	647.8	652.3
80°	826.0	864.3	652.3	559.7	633.0	625.2
82.5°	617.2	762.9	554.1	495.4	494.2	436.8
85°	343.1	594.7	451.4	371.3	258.4	250.5
87.5°	95.8	330.7	315.9	209.9	143.3	148.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)