

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: P193137

Luminaire Tested: **GAN-AF-09-LED-U-T2R-7030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193137
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-7030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 35327.9 lumens
Efficiency: N/A
Efficacy: 121.8 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 - G4

Input Watts (W): 290
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

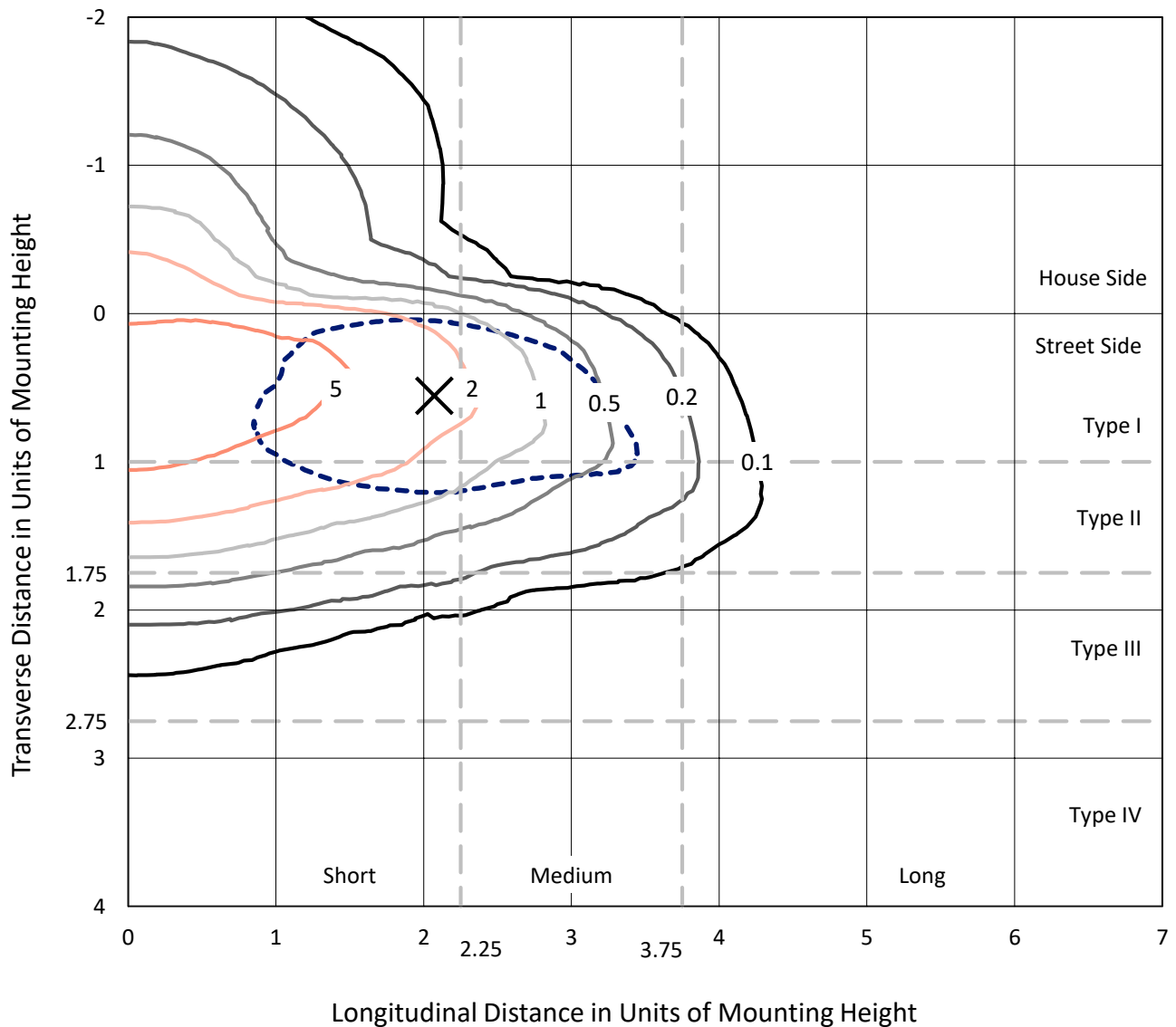


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

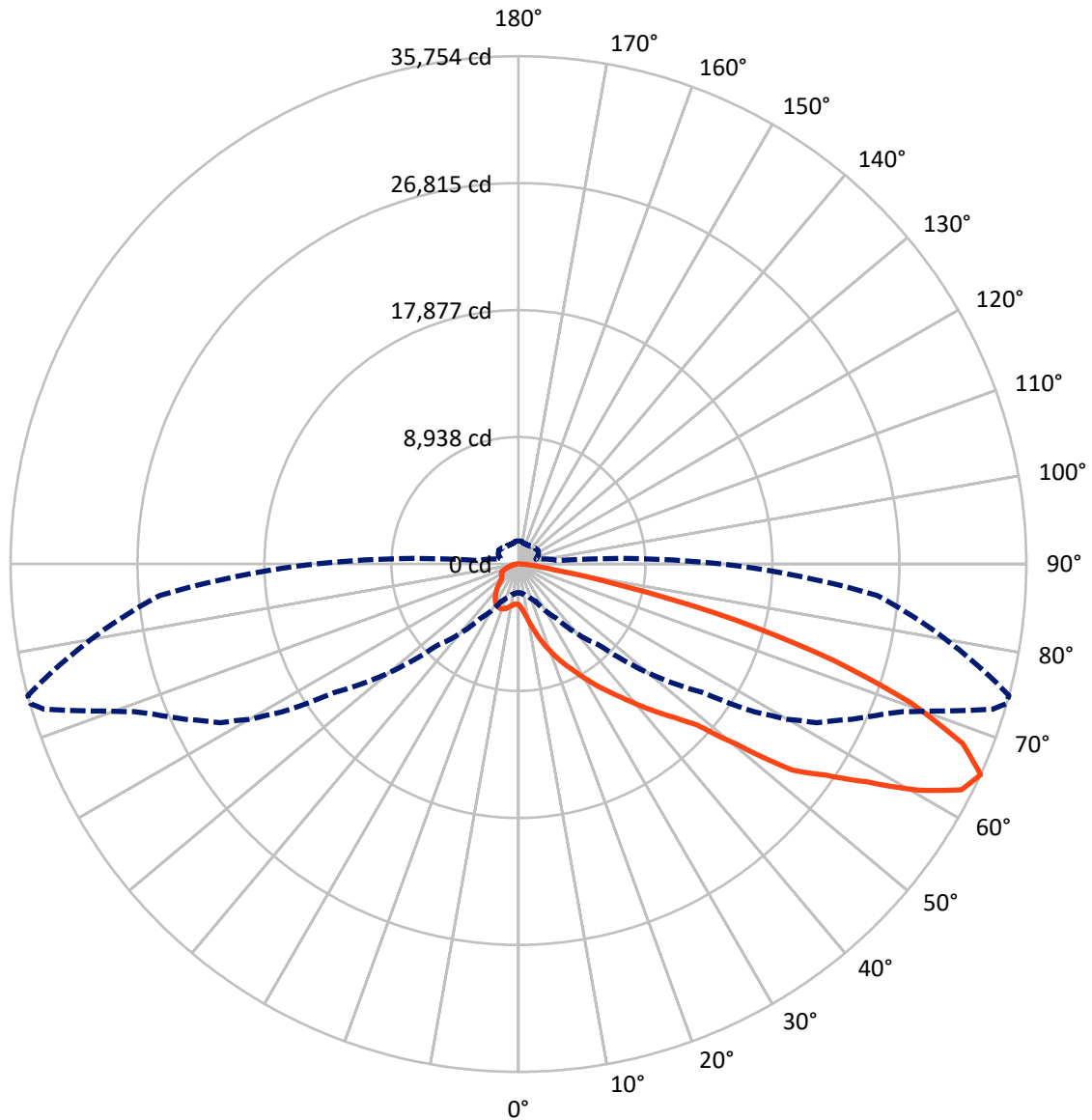


Based on 30 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - Full Cutoff

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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	5446.7	0.0	5446.7
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	29881.2	0.0	29881.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	35327.9	0.0	35327.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.9	1.0
10°-20°	1386.6	3.9
20°-30°	2844.8	8.1
30°-40°	4786.2	13.5
40°-50°	6613.2	18.7
50°-60°	8255.3	23.4
60°-70°	7428.8	21.0
70°-80°	3114.1	8.8
80°-90°	544.0	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°	35327.9	100.0
0°-180°	35327.9	100.0

Coefficient of Utilization



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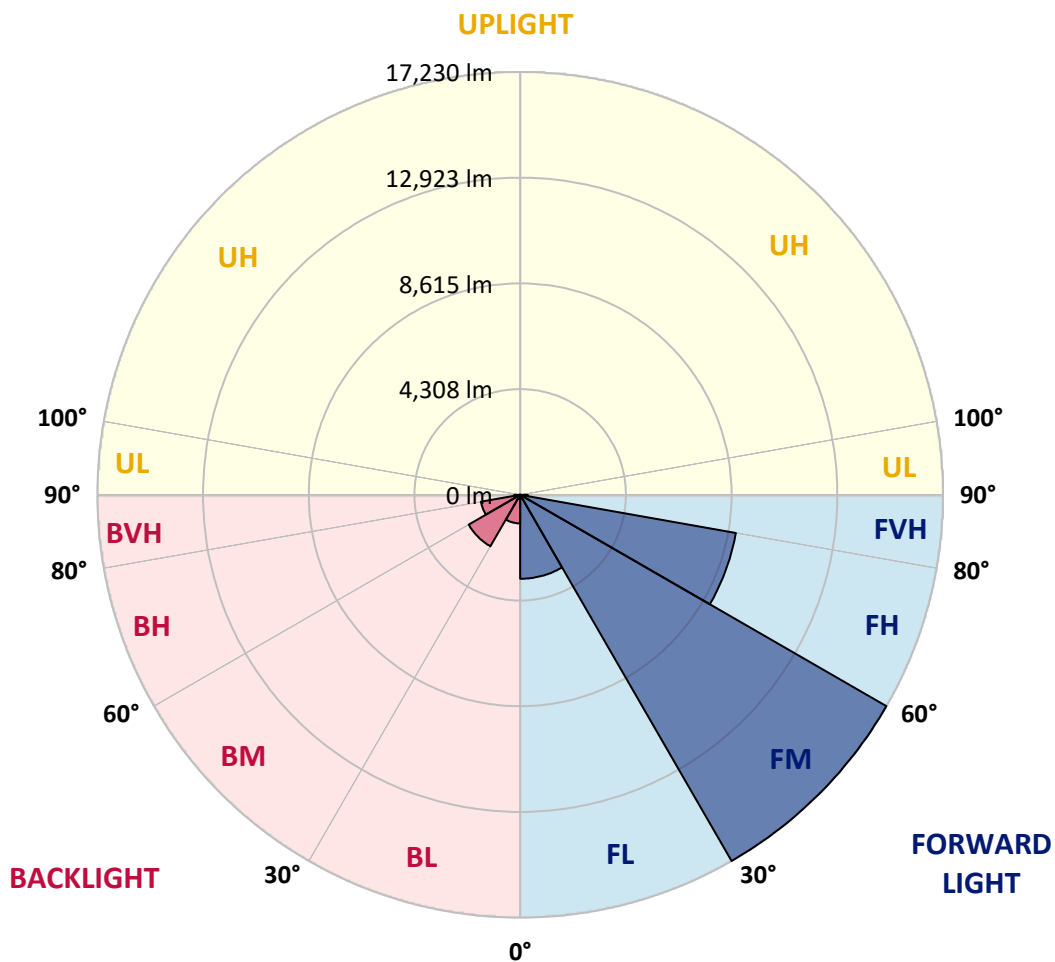
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3421.4	9.7			
FM	(30°-60°)	17230.3	48.8			
FH	(60°-80°)	8923.7	25.3			G4/12000
FVH	(80°-90°)	305.8	0.9			G3/500
BL	(0°-30°)	1164.8	3.3	B3/2500		
BM	(30°-60°)	2424.4	6.9	B2/2500		
BH	(60°-80°)	1619.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	238.3	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2871.2	2871.2	2871.2	2871.2	2871.2	2871.2	2871.2	2871.2	2871.2	2871.2	2871.2
2.5°	3645.2	3605.1	3615.2	3548.3	3466.4	3359.2	3240.6	3239.0	3240.6	3228.9	3185.5
5°	5054.9	5006.4	4988.0	4837.5	4616.8	4302.4	3961.3	3924.5	3909.6	3871.0	3782.3
7.5°	6083.2	6056.5	6028.1	5914.3	5713.7	5362.6	4904.4	4825.8	4750.6	4732.1	4631.8
10°	6747.1	6740.4	6680.2	6650.1	6524.8	6220.3	5774.0	5698.6	5616.7	5588.3	5482.9
12.5°	7272.2	7270.4	7242.0	7250.5	7141.7	6921.0	6536.4	6467.8	6407.6	6320.6	6245.5
15°	7635.0	7636.6	7678.5	7725.2	7708.6	7559.7	7198.5	7168.5	7116.6	7056.4	6967.8
17.5°	7932.7	7941.0	7984.4	8069.8	8161.7	8149.9	7864.1	7839.1	7793.9	7711.9	7665.1
20°	8604.8	8636.6	8553.1	8553.1	8563.0	8608.2	8471.1	8450.9	8387.5	8344.0	8307.2
22.5°	9740.3	9777.1	9588.0	9395.8	9206.8	9069.7	8932.6	8957.6	8914.1	8884.1	8862.3
25°	11215.0	11243.5	10937.5	10613.1	10228.6	9726.8	9387.4	9372.4	9349.0	9330.5	9320.5
27.5°	12602.9	12614.6	12325.3	11850.5	11404.1	10683.3	9848.9	9830.5	9802.0	9767.0	9736.8
30°	13790.1	13786.8	13489.1	13036.0	12557.8	11760.1	10549.5	10492.7	10409.1	10313.7	10240.3
32.5°	14818.5	14813.5	14487.4	14017.5	13515.9	12827.0	11509.4	11392.4	11261.9	11076.2	10964.2
35°	15627.8	15624.5	15316.8	14826.9	14251.7	13832.0	12609.6	12465.8	12300.3	12051.1	11878.8
37.5°	15933.9	15933.9	15761.6	15427.2	14918.8	14631.2	13832.0	13658.1	13480.9	13198.2	13004.2
40°	15754.9	15758.3	15795.1	15733.3	15485.8	15264.9	14972.4	14868.6	14716.5	14462.3	14260.0
42.5°	15154.6	15173.1	15417.1	15716.5	15840.2	15805.1	15984.0	15937.2	15830.1	15634.6	15474.0
45°	14393.9	14450.6	14718.2	15283.4	15938.8	16271.7	16831.8	16836.8	16816.7	16711.4	16587.6
47.5°	13348.7	13428.9	13781.8	14545.9	15708.1	16724.8	17692.9	17738.0	17779.9	17711.4	17654.4
50°	11960.8	12056.1	12584.5	13597.9	15238.2	17194.6	19319.9	19524.0	19714.5	19691.1	19729.6
52.5°	10474.2	10586.3	11233.5	12362.1	14430.5	17303.3	20360.0	20692.7	21025.6	21298.0	21587.3
55°	9133.2	9073.0	9720.1	10909.1	13102.9	16813.4	21294.7	21696.0	22067.2	22401.7	22746.1
57.5°	7315.7	7414.3	8063.2	9238.6	11345.5	15430.4	21938.5	22525.4	23058.8	23612.3	24100.6
60°	5347.4	5446.1	6150.1	7344.1	9437.6	13333.7	21446.9	22336.4	23191.0	24038.6	24700.9
62.5°	3228.9	3302.5	3922.9	5059.9	7277.2	10847.1	19256.4	20423.5	21681.0	22694.4	23709.3
65°	2010.0	2051.7	2280.8	2906.2	4673.7	8098.2	15733.3	17005.6	18360.2	19646.0	20701.2
67.5°	1645.3	1660.4	1702.3	1836.0	2566.7	5280.6	11710.0	12837.0	14059.4	15303.4	16477.3
70°	1479.8	1469.9	1469.9	1478.2	1645.3	2839.3	7666.7	8400.8	9419.1	10501.0	11574.6
72.5°	1336.0	1326.0	1307.7	1282.4	1342.7	1732.3	3963.0	4516.4	5250.6	6212.1	7240.4
75°	1200.6	1187.2	1165.5	1133.7	1175.5	1307.7	1902.9	2135.4	2493.2	3004.8	3578.3
77.5°	1060.2	1043.4	1023.3	999.9	1053.5	1016.6	1115.3	1198.9	1336.0	1499.9	1715.6
80°	901.3	886.2	879.5	867.8	931.4	774.2	787.5	839.4	919.6	1008.4	1108.7
82.5°	705.6	705.6	732.4	737.4	807.7	556.7	588.6	633.7	675.6	722.3	769.1
85°	464.9	468.1	558.6	593.6	637.1	374.5	441.4	456.4	489.9	516.7	536.8
87.5°	145.5	157.3	341.1	377.9	366.2	212.4	270.9	277.6	301.0	319.4	336.1
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2871.2	2871.2	2871.2	2871.2	2871.2	2871.2	2871.2	2871.2	2871.2	2871.2	2871.2
2.5°	3185.5	3165.3	3147.0	3145.2	3131.9	3113.6	3120.2	3091.8	3093.4	3078.4	3061.7
5°	3745.6	3732.2	3665.3	3647.0	3596.9	3565.0	3560.0	3493.1	3484.8	3446.2	3404.5
7.5°	4551.5	4508.1	4414.4	4369.3	4284.0	4220.4	4190.4	4101.8	4058.3	3957.9	3912.8
10°	5396.0	5340.8	5225.5	5162.0	5080.0	4978.0	4922.7	4794.1	4743.8	4651.9	4541.6
12.5°	6178.6	6123.4	6004.7	5956.2	5847.4	5738.9	5678.6	5533.1	5467.9	5320.7	5233.8
15°	6902.6	6847.4	6743.7	6693.6	6584.9	6496.2	6416.0	6272.2	6195.3	6058.2	5944.5
17.5°	7604.9	7546.4	7456.1	7410.9	7305.6	7215.3	7128.3	6992.9	6914.3	6777.3	6675.2
20°	8257.0	8213.6	8148.3	8088.1	7982.8	7900.9	7797.2	7680.2	7566.4	7466.1	7369.1
22.5°	8825.5	8808.8	8738.7	8711.9	8621.5	8551.2	8461.0	8345.7	8263.8	8136.6	8046.4
25°	9315.6	9310.5	9277.1	9268.7	9205.1	9138.2	9118.2	9022.8	8947.7	8835.6	8742.0
27.5°	9736.8	9741.9	9733.6	9757.0	9740.3	9710.1	9711.8	9680.1	9636.5	9542.9	9461.0
30°	10205.1	10178.4	10193.4	10226.7	10236.8	10240.3	10295.4	10313.7	10310.5	10248.5	10208.4
32.5°	10867.3	10803.7	10745.2	10740.1	10773.6	10786.9	10880.6	10929.1	10970.9	10986.0	10992.7
35°	11711.7	11584.6	11462.5	11397.3	11340.4	11355.6	11422.4	11500.9	11593.0	11656.6	11731.7
37.5°	12775.1	12619.7	12403.9	12250.1	12211.7	12128.0	12171.5	12233.4	12323.7	12422.3	12552.8
40°	14064.4	13828.6	13586.2	13382.2	13271.8	13118.0	13116.2	13104.5	13159.7	13251.7	13435.6
42.5°	15305.1	15096.2	14838.6	14624.6	14480.7	14275.0	14233.3	14124.6	14149.6	14229.9	14408.9
45°	16467.2	16295.0	16137.8	15890.3	15768.3	15545.9	15475.7	15346.9	15275.0	15311.8	15490.7
47.5°	17592.6	17482.2	17318.3	17157.8	17064.2	16865.3	16774.9	16682.9	16591.0	16587.6	16774.9
50°	19786.5	19728.0	19533.9	19366.8	19411.9	19167.8	19182.7	18935.2	19047.3	19060.8	19453.7
52.5°	21848.2	22052.3	22196.0	22371.6	22485.3	22507.0	22582.2	22694.4	22829.7	23097.3	23461.8
55°	23028.7	23284.6	23433.4	23567.1	23787.9	23834.7	23960.1	24108.9	24227.7	24528.6	24838.0
57.5°	24431.7	24906.5	25137.3	25349.7	25647.3	25761.0	25970.1	26132.2	26286.0	26642.3	27016.7
60°	25296.1	25874.7	26344.6	26680.7	27053.5	27321.2	27637.1	27891.2	28252.5	28678.9	29237.3
62.5°	24608.9	25458.4	26082.1	26658.9	27165.5	27677.3	28130.4	28605.2	29153.7	29799.3	30665.4
65°	21871.6	22736.1	23804.7	24403.3	25073.8	25863.0	26551.9	27321.2	28068.6	29008.4	30289.2
67.5°	17607.6	18612.7	19813.2	20416.8	21187.7	22069.0	22841.4	23781.2	24654.1	25792.9	27376.3
70°	12691.5	13990.7	15000.7	15631.1	16530.8	17438.8	18184.6	19278.1	20000.5	21167.7	22804.7
72.5°	8036.3	9061.3	10298.7	11093.0	11892.4	12812.0	13574.5	14517.5	15191.4	16254.9	17738.0
75°	4320.7	5076.6	6163.6	6917.6	7773.8	8559.7	9452.6	10084.7	10583.0	11424.0	12627.9
77.5°	2025.0	2484.8	3034.9	3615.2	4195.4	4800.8	5389.3	5901.0	6115.0	6596.6	7307.3
80°	1229.0	1377.9	1538.4	1717.3	1959.8	2155.3	2414.5	2601.9	2615.2	2767.4	2984.8
82.5°	821.0	876.1	924.7	969.9	1031.7	1080.2	1135.4	1200.6	1227.3	1262.5	1332.8
85°	560.2	586.9	597.0	625.4	618.7	635.5	657.2	678.9	690.6	688.9	720.7
87.5°	344.5	357.9	364.5	371.3	366.2	359.5	369.6	381.2	384.6	374.5	377.9
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	2871.2	2871.2	2871.2	2871.2	2871.2	2871.2	2871.2	2871.2	2871.2	2871.2	2871.2
2.5°	3065.0	3050.0	3034.9	3025.0	3021.6	2932.9	2894.5	2869.3	2815.9	2772.5	2737.3
5°	3381.0	3349.4	3324.2	3294.1	3277.4	3053.4	2971.5	2914.5	2820.8	2765.7	2715.5
7.5°	3889.4	3800.8	3748.9	3690.4	3640.3	3235.6	3100.1	3011.5	2881.0	2807.5	2750.7
10°	4466.3	4374.3	4292.4	4202.1	4123.6	3478.0	3280.7	3143.6	2971.5	2876.0	2800.9
12.5°	5110.0	5019.8	4916.1	4800.8	4700.5	3785.8	3511.5	3315.9	3080.1	2953.0	2847.7
15°	5870.9	5712.1	5586.7	5452.8	5335.7	4153.6	3780.7	3509.9	3195.5	3023.2	2882.8
17.5°	6578.2	6411.0	6240.5	6123.4	5988.0	4566.6	4051.6	3707.1	3290.8	3068.3	2889.5
20°	7268.8	7086.5	6939.4	6782.2	6640.1	4994.7	4340.9	3881.0	3352.6	3070.0	2847.7
22.5°	7877.5	7763.8	7599.8	7429.3	7285.5	5422.7	4611.8	4028.2	3376.0	3031.6	2774.1
25°	8569.8	8449.3	8248.6	8104.9	7944.4	5859.1	4877.7	4141.9	3362.7	2959.8	2660.4
27.5°	9308.8	9175.0	8969.4	8818.9	8624.9	6312.4	5121.7	4223.9	3312.5	2842.6	2508.3
30°	10079.7	9957.6	9755.3	9603.2	9407.4	6792.2	5394.3	4279.0	3212.2	2680.4	2330.9
32.5°	10907.4	10805.4	10604.7	10445.8	10236.8	7312.2	5648.4	4295.7	3060.1	2488.2	2143.6
35°	11693.3	11623.1	11454.2	11305.4	11087.9	7803.9	5917.7	4287.4	2879.4	2277.5	1973.1
37.5°	12577.8	12536.1	12452.4	12263.5	11997.6	8471.1	6240.5	4252.3	2658.8	2068.4	1842.6
40°	13521.0	13524.3	13434.0	13305.3	13057.8	9280.4	6625.1	4183.6	2417.9	1884.5	1724.0
42.5°	14519.3	14571.1	14527.5	14435.6	14198.1	10096.4	7084.9	4100.1	2183.8	1705.5	1606.8
45°	15663.0	15726.4	15793.4	15658.0	15427.2	11173.3	7690.2	3991.3	1931.3	1556.7	1526.7
47.5°	16982.2	17082.5	17142.8	17144.4	16913.7	12507.6	8673.4	3926.2	1707.2	1456.4	1488.2
50°	19766.4	19798.1	19940.3	20187.8	20010.5	15596.1	10390.7	3886.1	1555.1	1394.5	1459.8
52.5°	23777.9	24127.2	24373.1	24356.4	24115.6	17557.5	11337.1	3678.8	1464.8	1371.2	1446.4
55°	25411.5	25848.0	26302.7	26423.2	26235.9	19231.3	12231.7	3471.3	1421.4	1387.9	1451.4
57.5°	27588.6	28324.4	28948.1	29210.7	28939.7	21373.3	13409.0	3362.7	1408.0	1433.1	1483.2
60°	30131.9	31041.6	31861.0	32332.5	32332.5	23834.7	14629.6	3317.5	1389.6	1499.9	1536.7
62.5°	31765.7	33101.7	34339.1	35029.7	35009.6	25548.6	15171.3	3163.7	1347.7	1546.8	1610.3
65°	31772.4	33360.9	34937.8	35713.6	35753.8	25338.0	14276.7	2794.2	1270.8	1553.4	1683.8
67.5°	29123.7	30817.5	32655.3	33523.2	33723.8	23324.6	12358.8	2297.5	1145.4	1486.6	1710.6
70°	24597.2	26250.9	28127.0	28979.9	29336.0	19883.4	9954.3	1770.8	984.9	1339.4	1655.4
72.5°	19378.4	21000.4	22306.4	22930.0	23207.6	15198.1	7248.7	1337.7	807.7	1128.6	1506.5
75°	13719.9	14937.3	15631.1	15769.9	15813.4	9161.7	4404.5	995.0	665.5	877.9	1272.6
77.5°	7743.6	8265.4	8208.5	8270.4	7755.4	3536.6	1917.9	712.4	548.5	667.1	986.6
80°	3023.2	3116.8	2927.9	2869.3	2631.9	1316.0	846.1	496.6	438.1	505.0	690.6
82.5°	1332.8	1376.1	1336.0	1346.1	1287.5	678.9	506.6	359.5	334.5	369.6	458.2
85°	734.1	747.5	744.0	765.8	734.1	270.9	240.8	220.7	234.2	250.9	294.4
87.5°	357.9	361.2	349.5	367.8	356.1	137.1	118.8	125.4	137.1	140.5	140.5
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°	2871.2	2871.2	2871.2	2871.2	2871.2	2871.2
2.5°	2712.3	2698.8	2700.6	2697.2	2690.5	2690.5
5°	2688.8	2675.4	2675.4	2672.1	2663.7	2665.4
7.5°	2712.3	2690.5	2682.1	2670.4	2658.8	2658.8
10°	2739.0	2700.6	2677.1	2657.0	2642.0	2642.0
12.5°	2759.1	2698.8	2660.4	2633.5	2618.6	2618.6
15°	2765.7	2687.1	2633.5	2601.9	2588.5	2586.8
17.5°	2743.9	2642.0	2576.8	2540.0	2523.3	2518.2
20°	2677.1	2560.1	2481.5	2439.6	2416.3	2407.8
22.5°	2576.8	2443.0	2351.0	2307.5	2277.5	2272.5
25°	2436.3	2292.5	2202.2	2160.4	2143.6	2138.6
27.5°	2272.5	2138.6	2061.7	2035.0	2019.9	2018.2
30°	2116.9	2003.3	1946.4	1926.4	1907.8	1904.6
32.5°	1971.5	1899.6	1877.8	1849.4	1805.9	1800.9
35°	1867.8	1861.1	1846.1	1782.4	1729.0	1714.0
37.5°	1804.2	1866.1	1789.2	1663.8	1625.3	1622.0
40°	1767.5	1814.2	1682.1	1638.7	1642.0	1638.7
42.5°	1683.8	1732.3	1685.6	1665.4	1678.9	1682.1
45°	1600.2	1653.7	1710.6	1697.3	1729.0	1729.0
47.5°	1553.4	1633.7	1709.0	1709.0	1755.8	1772.5
50°	1499.9	1616.9	1682.1	1705.5	1742.3	1729.0
52.5°	1496.6	1588.5	1643.7	1685.6	1702.3	1687.2
55°	1501.5	1565.1	1605.2	1652.1	1672.1	1673.9
57.5°	1508.4	1551.7	1578.5	1600.2	1660.4	1660.4
60°	1525.0	1540.0	1555.1	1566.8	1645.3	1647.1
62.5°	1551.7	1528.3	1525.0	1536.7	1637.0	1630.3
65°	1593.5	1511.6	1486.6	1498.3	1628.6	1608.7
67.5°	1650.4	1486.6	1438.1	1446.4	1622.0	1578.5
70°	1702.3	1446.4	1377.9	1369.4	1558.5	1481.5
72.5°	1707.2	1399.6	1294.2	1269.1	1354.5	1280.8
75°	1623.7	1367.8	1202.3	1128.6	1118.7	1108.7
77.5°	1463.1	1349.5	1095.3	979.8	959.9	966.5
80°	1224.0	1280.8	966.5	829.4	938.1	926.4
82.5°	914.6	1130.4	821.0	734.1	732.4	647.2
85°	508.4	881.1	668.8	550.1	383.0	371.3
87.5°	142.1	489.9	468.1	311.1	212.4	220.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)