

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: P193946

Luminaire Tested: **GAN-AF-08-LED-U-T2R-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193946
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32766 lumens
Efficiency: N/A
Efficacy: 98.1 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): 334
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

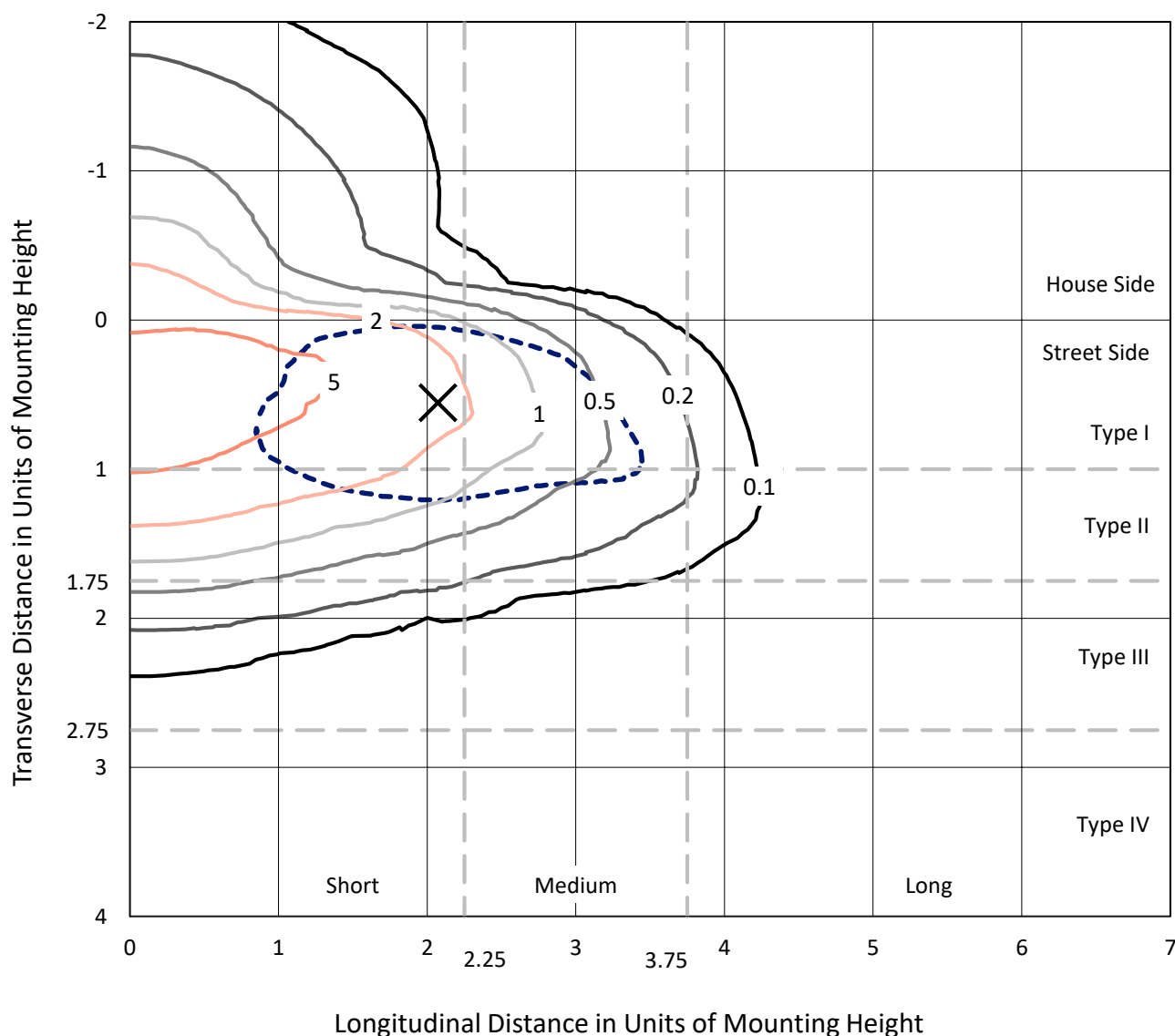


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

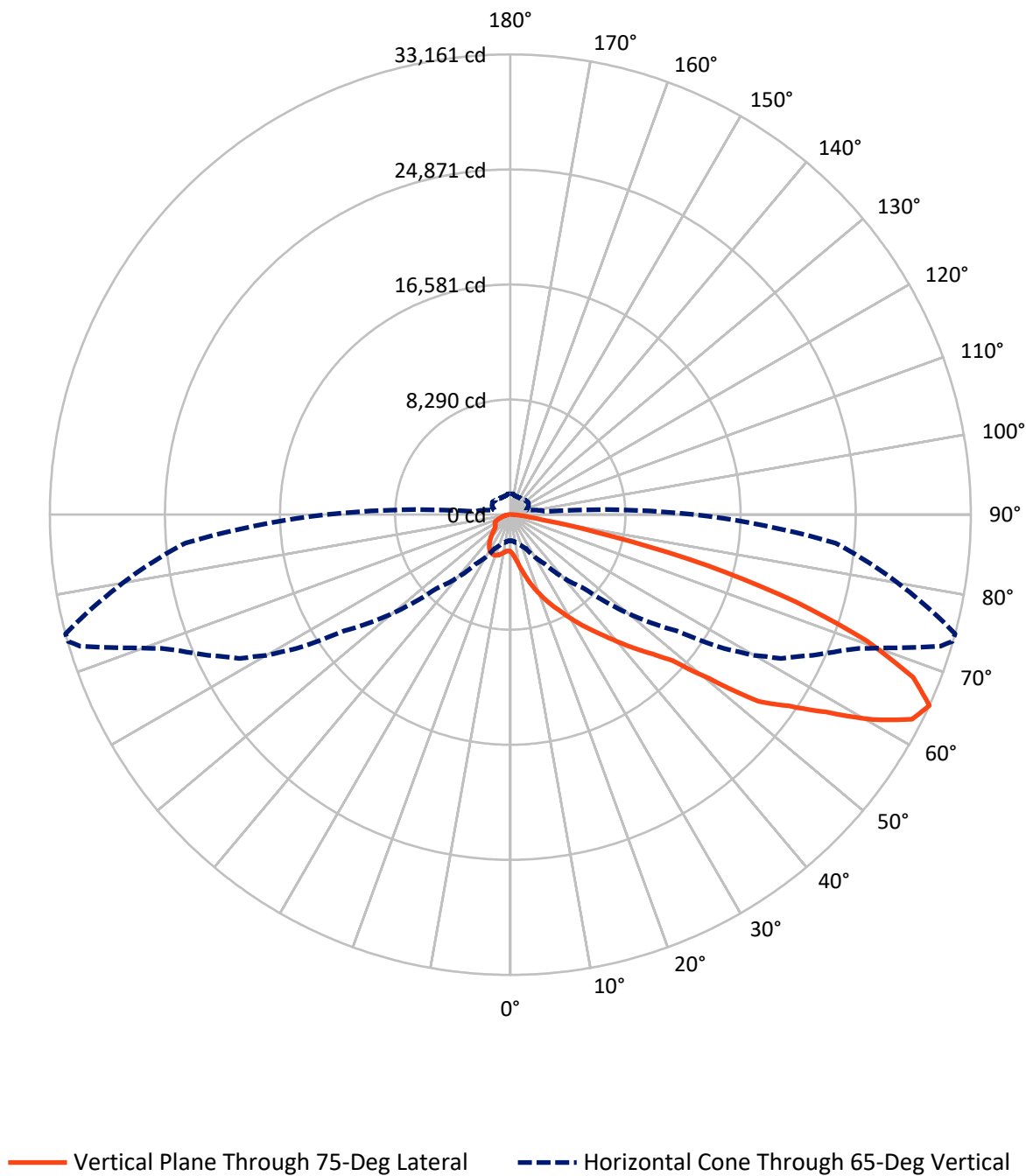


Based on 30 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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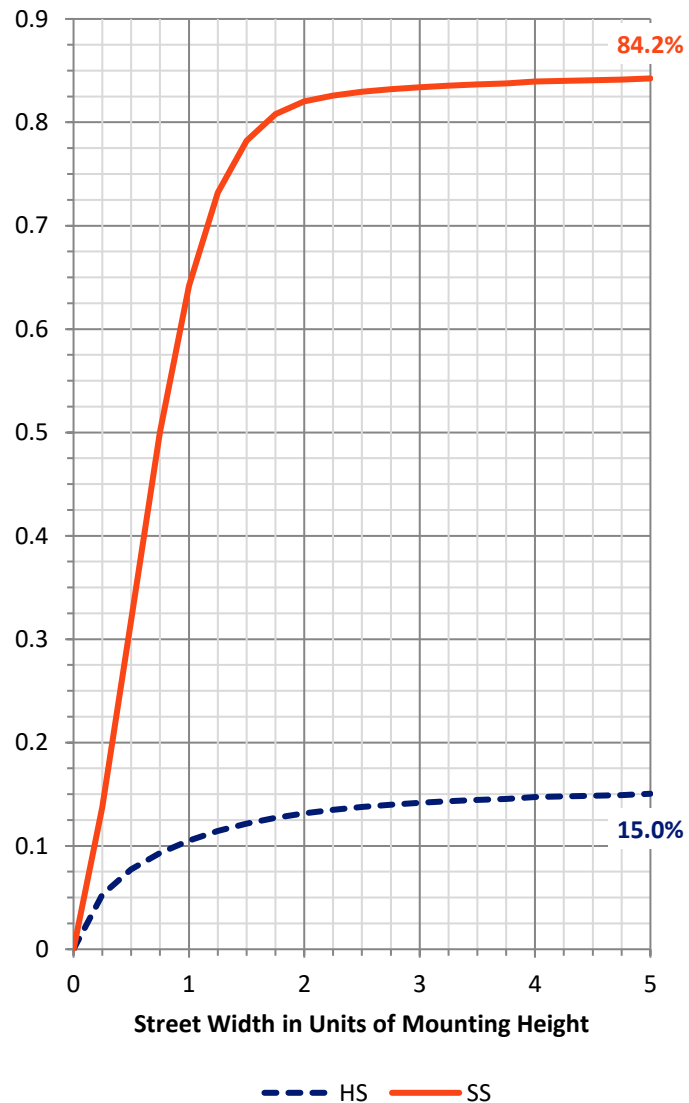
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5051.7	0.0	5051.7
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	27714.3	0.0	27714.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	32766.0	0.0	32766.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.1	1.0
10°-20°	1286.0	3.9
20°-30°	2638.5	8.1
30°-40°	4439.1	13.5
40°-50°	6133.6	18.7
50°-60°	7656.6	23.4
60°-70°	6890.1	21.0
70°-80°	2888.3	8.8
80°-90°	504.6	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°	32766.0	100.0
0°-180°	32766.0	100.0

Coefficient of Utilization



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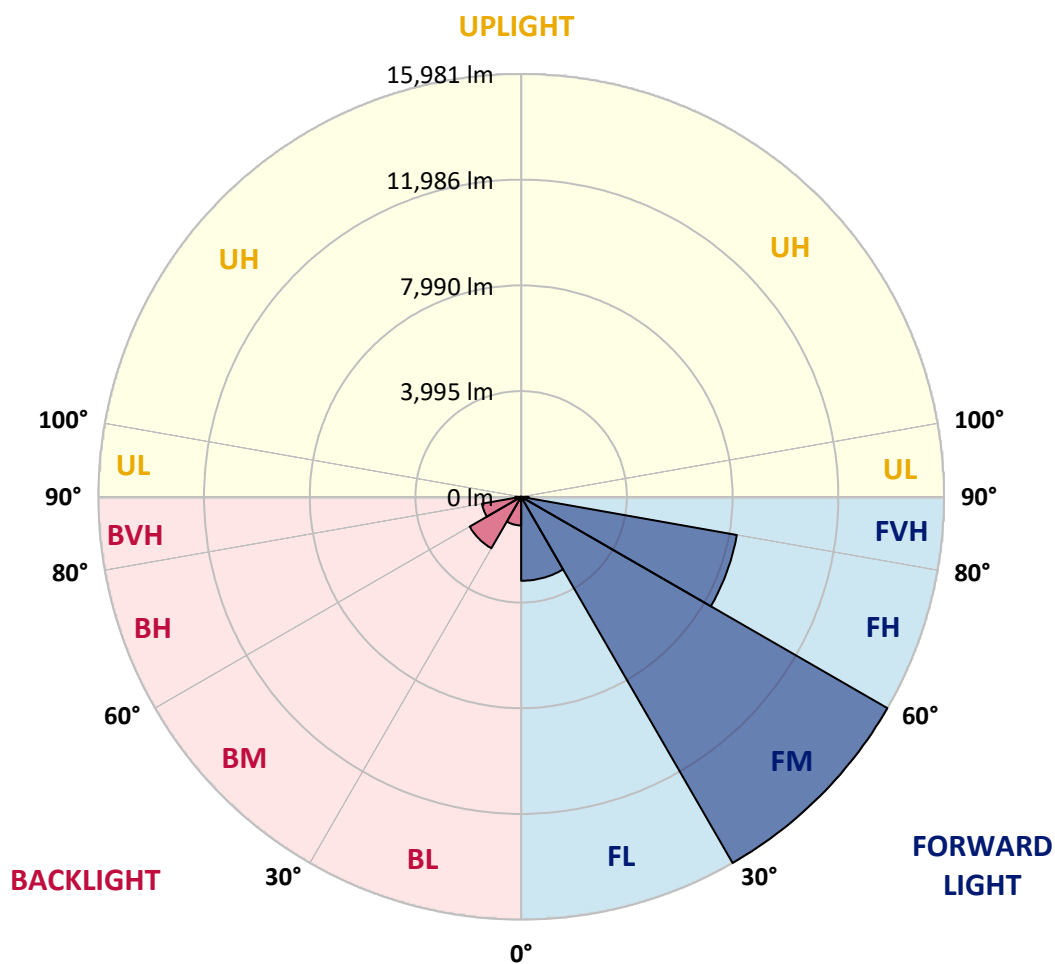
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3173.3	9.7			
FM	(30°-60°)	15980.8	48.8			
FH	(60°-80°)	8276.6	25.3			G4/12000
FVH	(80°-90°)	283.6	0.9			G3/500
BL	(0°-30°)	1080.4	3.3	B3/2500		
BM	(30°-60°)	2248.6	6.9	B2/2500		
BH	(60°-80°)	1501.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	221.0	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°	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9
2.5°	3380.9	3343.7	3353.0	3291.0	3215.0	3115.7	3005.6	3004.1	3005.6	2994.8	2954.4
5°	4688.3	4643.3	4626.3	4486.7	4282.0	3990.4	3674.0	3639.9	3626.0	3590.3	3508.1
7.5°	5642.1	5617.3	5590.9	5485.5	5299.4	4973.7	4548.7	4475.8	4406.1	4389.0	4295.9
10°	6257.8	6251.6	6195.8	6167.9	6051.5	5769.3	5355.2	5285.4	5209.4	5183.0	5085.3
12.5°	6744.8	6743.2	6716.9	6724.6	6623.8	6419.1	6062.4	5998.8	5943.0	5862.3	5792.5
15°	7081.3	7082.9	7121.6	7165.1	7149.6	7011.5	6676.5	6648.6	6600.6	6544.7	6462.5
17.5°	7357.4	7365.1	7405.5	7484.6	7569.9	7559.0	7293.8	7270.5	7228.7	7152.7	7109.2
20°	7980.8	8010.3	7932.8	7932.8	7942.1	7983.9	7856.8	7838.2	7779.2	7738.9	7704.8
22.5°	9033.9	9068.0	8892.8	8714.4	8539.2	8412.0	8284.8	8308.1	8267.8	8239.8	8219.7
25°	10401.8	10428.1	10144.3	9843.4	9486.7	9021.5	8706.7	8692.7	8671.0	8653.9	8644.6
27.5°	11689.0	11699.9	11431.6	10991.1	10577.0	9908.6	9134.7	9117.6	9091.3	9058.7	9030.8
30°	12790.1	12787.0	12511.0	12090.7	11647.1	10907.4	9784.5	9731.8	9654.2	9565.8	9497.6
32.5°	13743.9	13739.3	13436.8	13001.0	12535.8	11896.8	10674.7	10566.2	10445.2	10273.0	10169.1
35°	14494.5	14491.4	14206.1	13751.7	13218.2	12828.9	11695.2	11561.8	11408.3	11177.2	11017.5
37.5°	14778.4	14778.4	14618.6	14308.4	13837.0	13570.2	12828.9	12667.6	12503.2	12241.1	12061.2
40°	14612.4	14615.5	14649.6	14592.2	14362.7	14158.0	13886.6	13790.4	13649.3	13413.6	13225.9
42.5°	14055.6	14072.7	14299.1	14576.7	14691.5	14658.9	14824.9	14781.5	14682.2	14500.7	14351.9
45°	13350.0	13402.7	13650.9	14175.1	14783.0	15091.6	15611.2	15615.8	15597.2	15499.5	15384.7
47.5°	12380.7	12455.1	12782.4	13491.1	14569.0	15511.9	16409.9	16451.8	16490.5	16426.9	16374.2
50°	11093.5	11181.9	11671.9	12611.8	14133.2	15947.7	17918.9	18108.1	18284.9	18263.2	18298.9
52.5°	9714.7	9818.6	10418.8	11465.7	13384.1	16048.5	18883.5	19192.2	19500.8	19753.6	20021.9
55°	8470.9	8415.1	9015.3	10118.0	12152.7	15594.1	19750.5	20122.7	20467.0	20777.2	21096.6
57.5°	6785.1	6876.6	7478.4	8568.6	10522.7	14311.5	20347.6	20891.9	21386.7	21900.0	22352.9
60°	4959.7	5051.2	5704.1	6811.5	8753.2	12366.7	19891.6	20716.7	21509.2	22295.5	22909.6
62.5°	2994.8	3063.0	3638.4	4693.0	6749.4	10060.6	17860.0	18942.5	20108.7	21048.6	21990.0
65°	1864.2	1902.9	2115.4	2695.4	4334.7	7510.9	14592.2	15772.5	17028.7	18221.3	19199.9
67.5°	1526.1	1540.0	1578.8	1702.9	2380.6	4897.7	10860.8	11906.1	13039.8	14193.7	15282.4
70°	1372.5	1363.2	1363.2	1371.0	1526.1	2633.4	7110.8	7791.6	8736.1	9739.5	10735.2
72.5°	1239.2	1229.8	1212.8	1189.5	1245.4	1606.7	3675.6	4188.9	4869.8	5761.5	6715.3
75°	1113.5	1101.1	1081.0	1051.5	1090.3	1212.8	1764.9	1980.5	2312.4	2786.9	3318.9
77.5°	983.3	967.8	949.1	927.4	977.1	942.9	1034.4	1112.0	1239.2	1391.1	1591.2
80°	835.9	822.0	815.8	804.9	863.8	718.1	730.5	778.5	853.0	935.2	1028.2
82.5°	654.5	654.5	679.3	683.9	749.1	516.4	545.9	587.8	626.6	670.0	713.4
85°	431.1	434.2	518.0	550.6	590.9	347.4	409.4	423.4	454.4	479.2	497.8
87.5°	134.9	145.8	316.4	350.5	339.6	197.0	251.2	257.4	279.2	296.2	311.7
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°	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9
2.5°	2954.4	2935.8	2918.8	2917.2	2904.8	2887.7	2893.9	2867.6	2869.1	2855.2	2839.7
5°	3474.0	3461.6	3399.5	3382.5	3335.9	3306.5	3301.8	3239.8	3232.0	3196.4	3157.6
7.5°	4221.5	4181.2	4094.3	4052.5	3973.4	3914.4	3886.5	3804.3	3764.0	3670.9	3629.1
10°	5004.7	4953.5	4846.5	4787.6	4711.6	4617.0	4565.8	4446.4	4399.9	4314.6	4212.2
12.5°	5730.5	5679.3	5569.2	5524.2	5423.4	5322.6	5266.8	5131.9	5071.4	4934.9	4854.3
15°	6402.0	6350.9	6254.7	6208.2	6107.4	6025.2	5950.7	5817.4	5746.0	5618.8	5513.4
17.5°	7053.4	6999.1	6915.4	6873.5	6775.8	6692.1	6611.4	6485.8	6412.9	6285.7	6191.1
20°	7658.3	7617.9	7557.4	7501.6	7403.9	7327.9	7231.8	7123.2	7017.7	6924.7	6834.7
22.5°	8185.6	8170.0	8104.9	8080.1	7996.3	7931.2	7847.5	7740.5	7664.5	7546.6	7462.8
25°	8640.0	8635.3	8604.3	8596.5	8537.6	8475.6	8457.0	8368.6	8298.8	8194.9	8108.0
27.5°	9030.8	9035.4	9027.7	9049.4	9033.9	9006.0	9007.5	8978.1	8937.7	8850.9	8774.9
30°	9465.0	9440.2	9454.2	9485.2	9494.5	9497.6	9548.8	9565.8	9562.7	9505.4	9468.1
32.5°	10079.2	10020.2	9966.0	9961.3	9992.3	10004.7	10091.6	10136.6	10175.3	10189.3	10195.5
35°	10862.4	10744.5	10631.3	10570.8	10518.1	10532.0	10594.1	10667.0	10752.3	10811.2	10881.0
37.5°	11848.7	11704.5	11504.4	11361.8	11326.1	11248.5	11288.9	11346.3	11430.0	11521.5	11642.5
40°	13044.5	12825.8	12600.9	12411.7	12309.3	12166.7	12165.1	12154.3	12205.4	12290.7	12461.3
42.5°	14195.2	14001.4	13762.5	13564.0	13430.6	13239.9	13201.1	13100.3	13123.6	13198.0	13363.9
45°	15273.1	15113.3	14967.6	14738.0	14624.8	14418.5	14353.4	14234.0	14167.3	14201.4	14367.4
47.5°	16316.8	16214.5	16062.5	15913.6	15826.8	15642.2	15558.4	15473.1	15387.9	15384.7	15558.4
50°	18351.6	18297.3	18117.4	17962.3	18004.2	17777.8	17791.7	17562.2	17666.1	17678.5	18043.0
52.5°	20263.8	20453.0	20586.4	20749.2	20854.7	20874.9	20944.7	21048.6	21174.2	21422.3	21760.4
55°	21358.7	21596.0	21734.1	21858.1	22062.8	22106.3	22222.6	22360.6	22470.7	22749.9	23036.8
57.5°	22659.9	23100.4	23314.4	23511.4	23787.4	23892.9	24086.7	24237.2	24379.9	24710.2	25057.6
60°	23461.7	23998.3	24434.1	24745.9	25091.7	25339.9	25633.0	25868.7	26203.7	26599.2	27117.2
62.5°	22824.3	23612.2	24190.7	24725.7	25195.6	25670.2	26090.5	26530.9	27039.6	27638.3	28441.6
65°	20285.5	21087.3	22078.4	22633.6	23255.5	23987.5	24626.5	25339.9	26033.1	26904.7	28092.7
67.5°	16330.8	17262.9	18376.4	18936.3	19651.2	20468.5	21185.0	22056.6	22866.2	23922.4	25391.0
70°	11771.2	12976.2	13913.0	14497.6	15332.0	16174.1	16865.8	17880.1	18550.1	19632.6	21150.9
72.5°	7453.5	8404.2	9551.9	10288.6	11029.9	11882.9	12590.1	13464.8	14089.8	15076.1	16451.8
75°	4007.5	4708.5	5716.6	6416.0	7210.1	7939.0	8767.1	9353.4	9815.5	10595.6	11712.3
77.5°	1878.1	2304.6	2814.9	3353.0	3891.2	4452.6	4998.5	5473.1	5671.6	6118.2	6777.4
80°	1139.9	1277.9	1426.8	1592.8	1817.6	1999.1	2239.5	2413.2	2425.6	2566.7	2768.3
82.5°	761.5	812.7	857.6	899.5	956.9	1001.9	1053.0	1113.5	1138.3	1170.9	1236.1
85°	519.5	544.4	553.7	580.0	573.8	589.3	609.5	629.7	640.5	639.0	668.4
87.5°	319.5	331.9	338.1	344.3	339.6	333.4	342.7	353.6	356.7	347.4	350.5
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9
2.5°	2842.8	2828.8	2814.9	2805.5	2802.4	2720.2	2684.6	2661.3	2611.7	2571.4	2538.8
5°	3135.9	3106.4	3083.2	3055.2	3039.7	2831.9	2755.9	2703.2	2616.3	2565.2	2518.6
7.5°	3607.4	3525.2	3477.1	3422.8	3376.3	3001.0	2875.3	2793.1	2672.2	2603.9	2551.2
10°	4142.4	4057.1	3981.1	3897.4	3824.5	3225.8	3042.8	2915.7	2755.9	2667.5	2597.7
12.5°	4739.5	4655.7	4559.6	4452.6	4359.5	3511.2	3256.9	3075.4	2856.7	2738.9	2641.2
15°	5445.1	5297.8	5181.5	5057.4	4948.9	3852.4	3506.5	3255.3	2963.7	2804.0	2673.7
17.5°	6101.2	5946.1	5787.9	5679.3	5553.7	4235.5	3757.8	3438.3	3052.1	2845.9	2679.9
20°	6741.7	6572.6	6436.2	6290.4	6158.6	4632.5	4026.1	3599.6	3109.5	2847.4	2641.2
22.5°	7306.2	7200.7	7048.8	6890.6	6757.2	5029.5	4277.3	3736.1	3131.2	2811.7	2572.9
25°	7948.3	7836.6	7650.5	7517.1	7368.2	5434.3	4523.9	3841.5	3118.8	2745.1	2467.5
27.5°	8633.8	8509.7	8318.9	8179.4	7999.4	5854.6	4750.4	3917.5	3072.3	2636.5	2326.3
30°	9348.7	9235.5	9047.8	8906.7	8725.3	6299.7	5003.1	3968.7	2979.2	2486.1	2161.9
32.5°	10116.4	10021.8	9835.7	9688.4	9494.5	6782.0	5238.9	3984.2	2838.1	2307.7	1988.2
35°	10845.3	10780.2	10623.5	10485.5	10283.9	7238.0	5488.6	3976.5	2670.6	2112.3	1830.0
37.5°	11665.7	11627.0	11549.4	11374.2	11127.6	7856.8	5787.9	3943.9	2465.9	1918.4	1709.1
40°	12540.4	12543.5	12459.8	12340.4	12110.8	8607.4	6144.6	3880.3	2242.6	1747.8	1599.0
42.5°	13466.3	13514.4	13474.1	13388.8	13168.5	9364.2	6571.1	3802.8	2025.5	1581.9	1490.4
45°	14527.1	14586.0	14648.1	14522.5	14308.4	10363.0	7132.5	3702.0	1791.3	1443.9	1416.0
47.5°	15750.8	15843.8	15899.6	15901.2	15687.2	11600.6	8044.4	3641.5	1583.5	1350.8	1380.3
50°	18333.0	18362.4	18494.3	18723.8	18559.4	14465.1	9637.2	3604.2	1442.3	1293.4	1353.9
52.5°	22053.5	22377.7	22605.7	22590.1	22366.8	16284.3	10515.0	3411.9	1358.6	1271.7	1341.5
55°	23568.8	23973.5	24395.4	24507.0	24333.3	17836.7	11344.7	3219.6	1318.2	1287.2	1346.2
57.5°	25588.0	26270.4	26848.9	27092.4	26841.1	19823.4	12436.5	3118.8	1305.8	1329.1	1375.6
60°	27946.9	28790.6	29550.5	29987.9	29987.9	22106.3	13568.7	3076.9	1288.8	1391.1	1425.3
62.5°	29462.1	30701.3	31848.9	32489.4	32470.8	23695.9	14071.2	2934.3	1250.0	1434.6	1493.5
65°	29468.3	30941.6	32404.1	33123.7	33161.0	23500.5	13241.4	2591.5	1178.7	1440.8	1561.7
67.5°	27011.7	28582.8	30287.2	31092.1	31278.2	21633.3	11462.6	2130.9	1062.4	1378.7	1586.6
70°	22813.5	24347.3	26087.4	26878.3	27208.7	18441.5	9232.4	1642.4	913.5	1242.3	1535.4
72.5°	17973.2	19477.5	20688.8	21267.2	21524.7	14096.0	6723.1	1240.7	749.1	1046.8	1397.3
75°	12725.0	13854.0	14497.6	14626.4	14666.7	8497.3	4085.0	922.8	617.3	814.2	1180.2
77.5°	7182.1	7666.0	7613.3	7670.7	7193.0	3280.1	1778.9	660.7	508.7	618.8	915.0
80°	2804.0	2890.8	2715.6	2661.3	2441.1	1220.5	784.7	460.6	406.3	468.4	640.5
82.5°	1236.1	1276.4	1239.2	1248.5	1194.2	629.7	469.9	333.4	310.2	342.7	424.9
85°	680.8	693.2	690.1	710.3	680.8	251.2	223.3	204.7	217.1	232.6	273.0
87.5°	331.9	335.0	324.1	341.2	330.3	127.2	110.1	116.3	127.2	130.3	130.3
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):

	135°	145°	155°	165°	175°	180°
0°	2662.9	2662.9	2662.9	2662.9	2662.9	2662.9
2.5°	2515.5	2503.1	2504.7	2501.6	2495.4	2495.4
5°	2493.8	2481.4	2481.4	2478.3	2470.6	2472.1
7.5°	2515.5	2495.4	2487.6	2476.8	2465.9	2465.9
10°	2540.3	2504.7	2483.0	2464.4	2450.4	2450.4
12.5°	2559.0	2503.1	2467.5	2442.6	2428.7	2428.7
15°	2565.2	2492.3	2442.6	2413.2	2400.8	2399.2
17.5°	2545.0	2450.4	2389.9	2355.8	2340.3	2335.6
20°	2483.0	2374.4	2301.5	2262.7	2241.0	2233.3
22.5°	2389.9	2265.8	2180.5	2140.2	2112.3	2107.6
25°	2259.6	2126.3	2042.5	2003.7	1988.2	1983.6
27.5°	2107.6	1983.6	1912.2	1887.4	1873.5	1871.9
30°	1963.4	1858.0	1805.2	1786.6	1769.6	1766.5
32.5°	1828.5	1761.8	1741.6	1715.3	1675.0	1670.3
35°	1732.3	1726.1	1712.2	1653.2	1603.6	1589.7
37.5°	1673.4	1730.8	1659.4	1543.1	1507.5	1504.4
40°	1639.3	1682.7	1560.2	1519.9	1523.0	1519.9
42.5°	1561.7	1606.7	1563.3	1544.7	1557.1	1560.2
45°	1484.2	1533.8	1586.6	1574.1	1603.6	1603.6
47.5°	1440.8	1515.2	1585.0	1585.0	1628.4	1643.9
50°	1391.1	1499.7	1560.2	1581.9	1616.0	1603.6
52.5°	1388.0	1473.3	1524.5	1563.3	1578.8	1564.8
55°	1392.7	1451.6	1488.8	1532.3	1550.9	1552.4
57.5°	1398.9	1439.2	1464.0	1484.2	1540.0	1540.0
60°	1414.4	1428.4	1442.3	1453.2	1526.1	1527.6
62.5°	1439.2	1417.5	1414.4	1425.3	1518.3	1512.1
65°	1478.0	1402.0	1378.7	1389.6	1510.6	1491.9
67.5°	1530.7	1378.7	1333.8	1341.5	1504.4	1464.0
70°	1578.8	1341.5	1277.9	1270.2	1445.4	1374.1
72.5°	1583.5	1298.1	1200.4	1177.1	1256.2	1188.0
75°	1505.9	1268.6	1115.1	1046.8	1037.5	1028.2
77.5°	1357.0	1251.6	1015.8	908.8	890.2	896.4
80°	1135.2	1188.0	896.4	769.2	870.0	859.2
82.5°	848.3	1048.4	761.5	680.8	679.3	600.2
85°	471.5	817.3	620.4	510.2	355.2	344.3
87.5°	131.8	454.4	434.2	288.5	197.0	204.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)