

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: P193138

Luminaire Tested: **GAN-AF-10-LED-U-T2R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193138
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-10-LED-U-T2R-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 39112.6 lumens
Efficiency: N/A
Efficacy: 121.1 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): 323
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

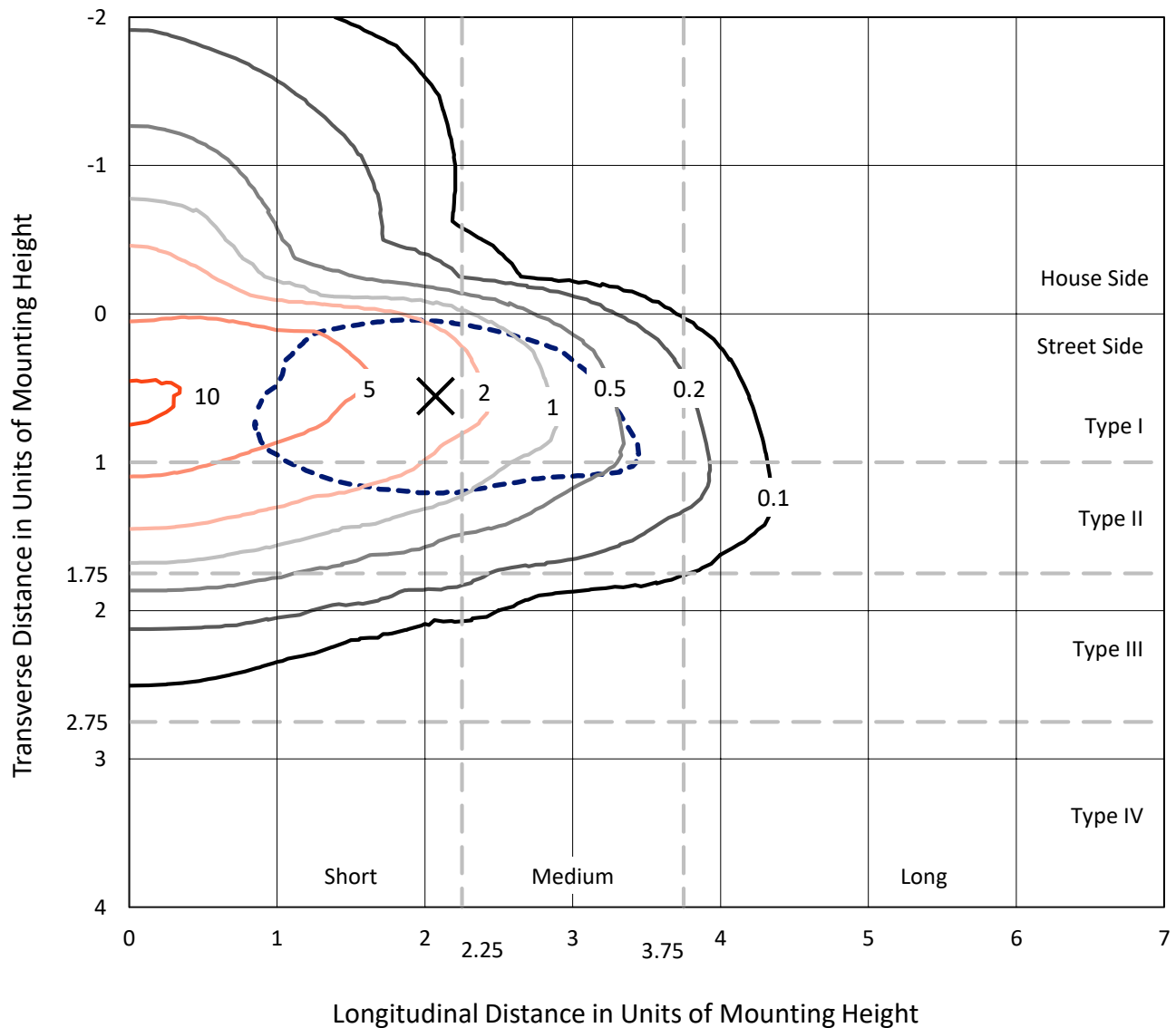


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

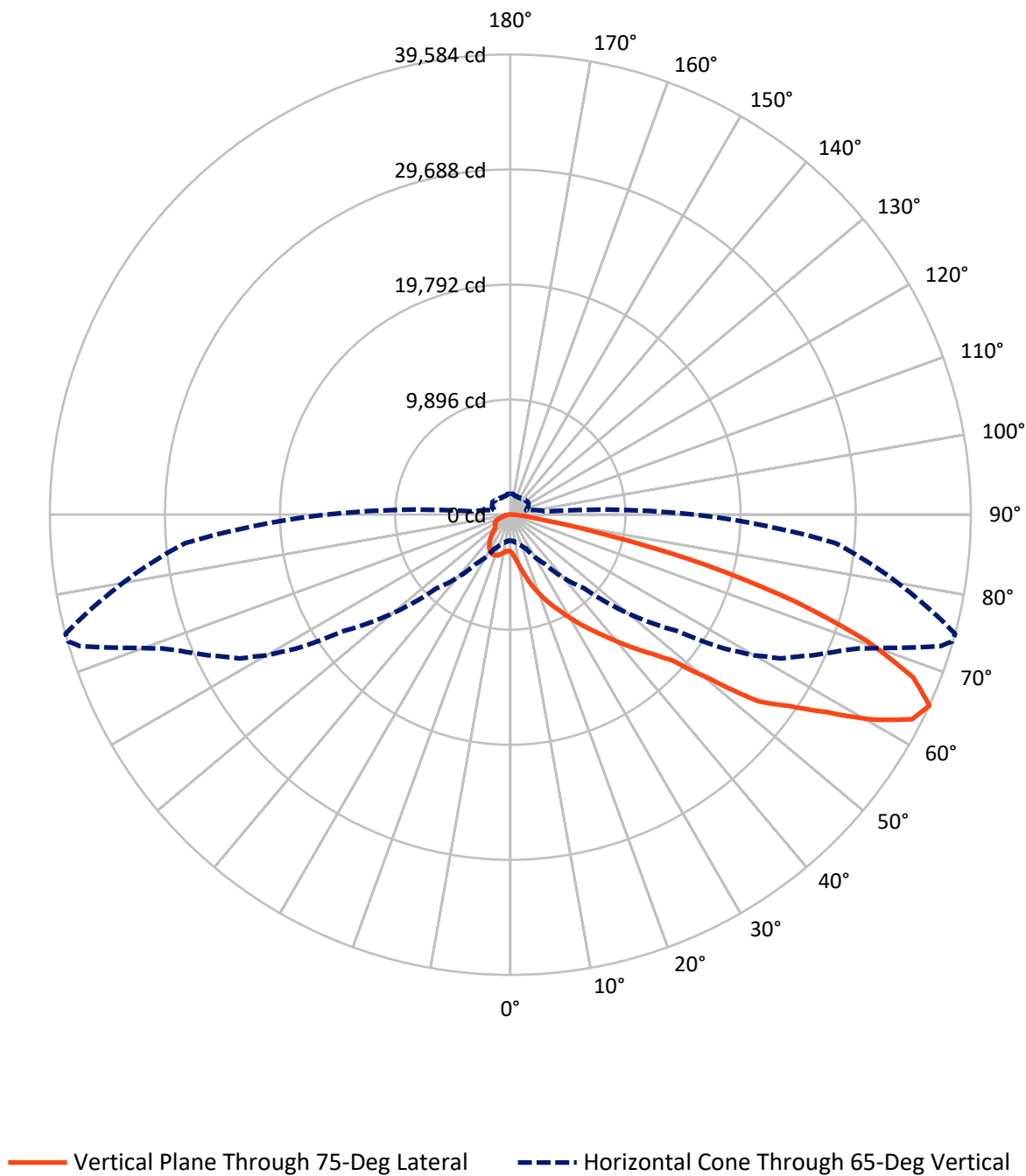


Based on 30 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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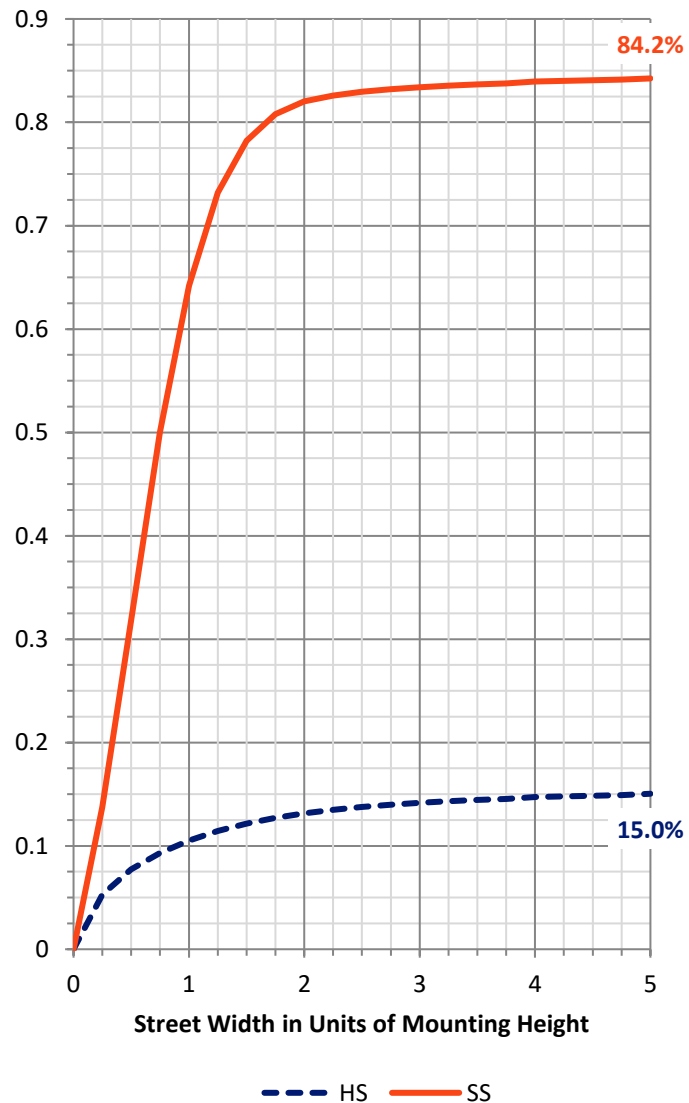
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6030.2	0.0	6030.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	33082.4	0.0	33082.4
	% Fixture	84.6	0.0	84.6
Total	Lumens	39112.6	0.0	39112.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.9	1.0
10°-20°	1535.1	3.9
20°-30°	3149.6	8.1
30°-40°	5299.0	13.5
40°-50°	7321.7	18.7
50°-60°	9139.7	23.4
60°-70°	8224.7	21.0
70°-80°	3447.7	8.8
80°-90°	602.3	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°	39112.6	100.0
0°-180°	39112.6	100.0

Coefficient of Utilization



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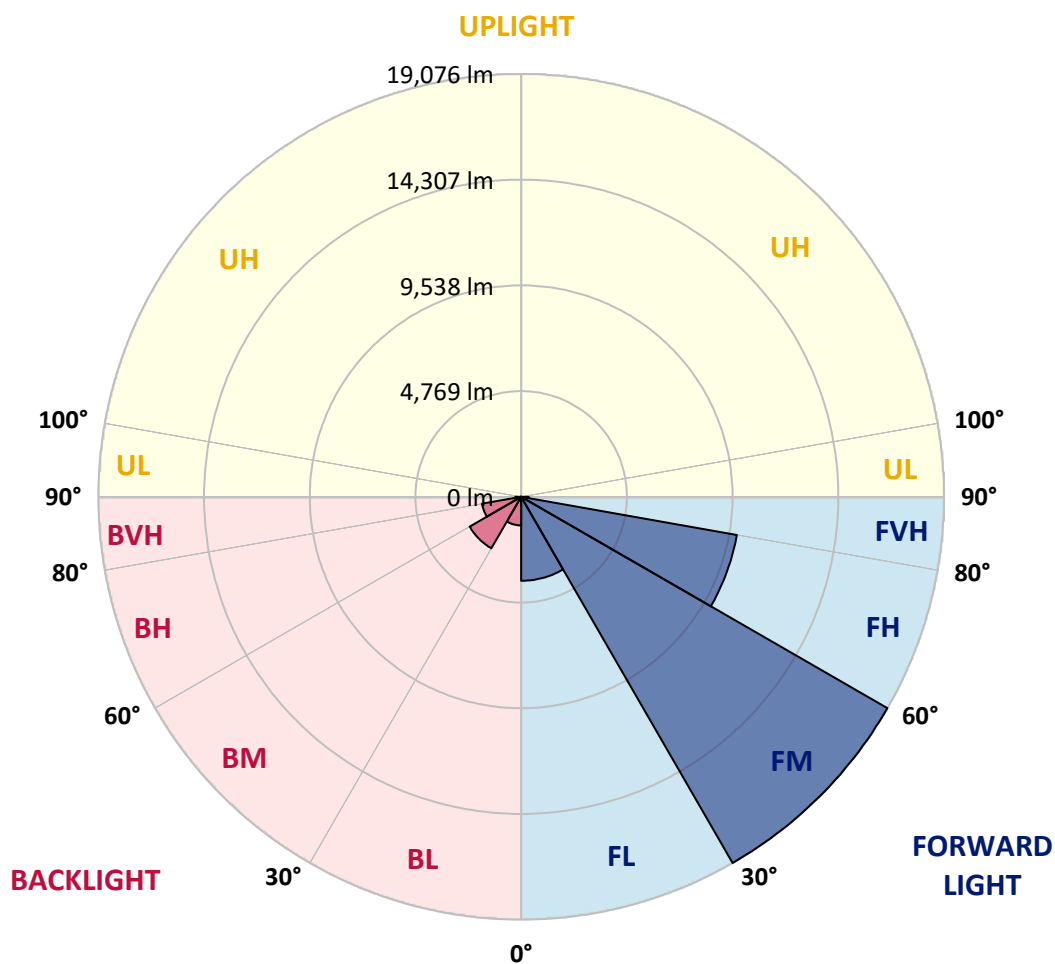
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3787.9	9.7			
FM	(30°-60°)	19076.2	48.8			
FH	(60°-80°)	9879.7	25.3			G4/12000
FVH	(80°-90°)	338.5	0.9			G3/500
BL	(0°-30°)	1289.6	3.3	B3/2500		
BM	(30°-60°)	2684.1	6.9	B3/5000		
BH	(60°-80°)	1792.7	4.6	B3/2500		G3/2500
BVH	(80°-90°)	263.8	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°	3178.7	3178.7	3178.7	3178.7	3178.7	3178.7	3178.7	3178.7	3178.7	3178.7	3178.7
2.5°	4035.8	3991.3	4002.5	3928.4	3837.7	3719.1	3587.7	3585.9	3587.7	3574.9	3526.7
5°	5596.4	5542.7	5522.4	5355.8	5111.3	4763.3	4385.6	4344.9	4328.3	4285.7	4187.6
7.5°	6735.0	6705.4	6673.9	6548.0	6325.8	5937.0	5429.8	5342.8	5259.5	5239.1	5128.1
10°	7469.9	7462.5	7395.9	7362.6	7223.6	6886.7	6392.4	6309.1	6218.5	6187.1	6070.3
12.5°	8051.2	8049.3	8017.9	8027.2	7906.9	7662.5	7236.7	7160.8	7094.1	6997.8	6914.6
15°	8453.0	8454.8	8501.1	8553.0	8534.5	8369.6	7969.8	7936.5	7879.0	7812.4	7714.2
17.5°	8782.5	8791.8	8839.8	8934.2	9036.1	9023.1	8706.6	8678.8	8628.9	8538.1	8486.2
20°	9526.7	9561.9	9469.3	9469.3	9480.4	9530.3	9378.6	9356.4	9286.1	9237.9	9197.1
22.5°	10783.7	10824.5	10615.2	10402.3	10193.2	10041.4	9889.5	9917.4	9869.2	9835.8	9811.8
25°	12416.6	12448.0	12109.2	11750.1	11324.2	10768.9	10393.1	10376.5	10350.4	10330.1	10319.0
27.5°	13953.1	13966.1	13645.8	13120.1	12625.8	11827.9	10904.1	10883.7	10852.1	10813.3	10779.9
30°	15267.6	15263.8	14934.3	14432.6	13903.1	13020.1	11679.7	11616.8	11524.2	11418.6	11337.3
32.5°	16406.1	16400.5	16039.5	15519.3	14963.9	14201.2	12742.4	12612.8	12468.3	12262.9	12138.8
35°	17302.1	17298.4	16957.7	16415.3	15778.4	15313.8	13960.5	13801.3	13618.1	13342.2	13151.5
37.5°	17640.9	17640.9	17450.2	17080.0	16517.2	16198.7	15313.8	15121.3	14925.1	14612.2	14397.4
40°	17442.8	17446.5	17487.2	17418.6	17144.8	16900.3	16576.4	16461.5	16293.2	16011.7	15787.8
42.5°	16778.2	16798.5	17068.8	17400.2	17537.2	17498.3	17696.4	17644.6	17526.1	17309.5	17131.8
45°	15935.8	15998.8	16294.9	16920.7	17646.5	18014.7	18635.0	18640.5	18618.4	18501.8	18364.8
47.5°	14778.7	14867.7	15258.3	16104.3	17390.9	18516.5	19588.4	19638.4	19684.7	19608.8	19545.8
50°	13242.2	13347.7	13932.7	15054.7	16870.7	19036.7	21389.6	21615.6	21826.6	21800.7	21843.2
52.5°	11596.4	11720.5	12436.9	13686.5	15976.6	19157.1	22541.2	22909.6	23278.0	23579.8	23900.0
55°	10111.7	10045.1	10761.5	12077.7	14506.7	18614.6	23576.1	24020.3	24431.4	24801.7	25182.9
57.5°	8099.4	8208.5	8926.9	10228.3	12561.0	17083.7	24288.8	24938.7	25529.2	26141.9	26682.5
60°	5920.4	6029.6	6809.0	8130.8	10448.7	14762.1	23744.5	24729.4	25675.4	26614.0	27347.1
62.5°	3574.9	3656.3	4343.0	5601.9	8056.8	12009.2	21319.3	22611.5	24003.7	25125.6	26249.3
65°	2225.3	2271.5	2525.2	3217.5	5174.3	8965.7	17418.6	18827.5	20327.0	21750.7	22918.9
67.5°	1821.7	1838.3	1884.6	2032.7	2841.8	5846.4	12964.4	14212.3	15565.6	16943.0	18242.5
70°	1638.4	1627.3	1627.3	1636.4	1821.7	3143.5	8488.2	9300.8	10428.2	11626.1	12814.6
72.5°	1479.2	1468.1	1447.6	1420.0	1486.6	1917.9	4387.6	5000.4	5813.0	6877.6	8016.1
75°	1329.2	1314.4	1290.4	1255.2	1301.5	1447.6	2106.7	2364.1	2760.2	3326.7	3961.7
77.5°	1173.7	1155.2	1133.0	1107.1	1166.4	1125.6	1234.8	1327.4	1479.2	1660.6	1899.4
80°	997.9	981.1	973.8	960.8	1031.2	857.1	872.0	929.4	1018.2	1116.3	1227.4
82.5°	781.2	781.2	810.8	816.3	894.2	616.4	651.6	701.7	747.9	799.8	851.5
85°	514.6	518.3	618.3	657.2	705.4	414.6	488.7	505.5	542.5	572.1	594.3
87.5°	161.0	174.0	377.7	418.4	405.5	235.1	299.9	307.3	333.2	353.6	372.1
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°	3178.7	3178.7	3178.7	3178.7	3178.7	3178.7	3178.7	3178.7	3178.7	3178.7	3178.7
2.5°	3526.7	3504.5	3484.1	3482.3	3467.5	3447.1	3454.4	3423.0	3424.8	3408.3	3389.7
5°	4146.8	4132.0	4058.0	4037.6	3982.1	3946.9	3941.4	3867.3	3858.1	3815.5	3769.2
7.5°	5039.1	4991.1	4887.3	4837.4	4743.0	4672.6	4639.2	4541.2	4493.1	4382.0	4332.0
10°	5974.1	5913.0	5785.3	5715.0	5624.2	5511.2	5450.2	5307.6	5252.1	5150.3	5028.1
12.5°	6840.5	6779.4	6648.0	6594.3	6473.9	6353.7	6287.0	6125.8	6053.7	5890.8	5794.4
15°	7642.1	7581.0	7466.2	7410.7	7290.4	7192.2	7103.4	6944.2	6859.0	6707.2	6581.3
17.5°	8419.6	8354.8	8254.9	8204.9	8088.3	7988.3	7892.1	7742.1	7655.0	7503.3	7390.3
20°	9141.6	9093.5	9021.3	8954.7	8838.0	8747.3	8632.6	8502.9	8377.0	8266.0	8158.6
22.5°	9771.0	9752.6	9674.8	9645.2	9545.2	9467.5	9367.5	9239.7	9149.1	9008.3	8908.4
25°	10313.5	10307.9	10270.9	10261.6	10191.2	10117.3	10095.0	9989.5	9906.2	9782.2	9678.5
27.5°	10779.9	10785.5	10776.4	10802.3	10783.7	10750.3	10752.2	10717.0	10668.9	10565.3	10474.5
30°	11298.4	11268.8	11285.4	11322.4	11333.6	11337.3	11398.4	11418.6	11415.0	11346.5	11302.1
32.5°	12031.5	11961.1	11896.3	11890.8	11927.9	11942.6	12046.3	12100.0	12146.3	12163.0	12170.3
35°	12966.4	12825.7	12690.6	12618.4	12555.4	12572.0	12646.1	12733.1	12834.9	12905.2	12988.6
37.5°	14143.8	13971.6	13732.8	13562.5	13519.8	13427.3	13475.5	13544.0	13644.0	13753.1	13897.6
40°	15571.1	15310.1	15041.6	14815.8	14693.6	14523.3	14521.4	14508.5	14569.6	14671.5	14875.0
42.5°	16944.8	16713.4	16428.2	16191.3	16032.0	15804.4	15758.1	15637.7	15665.6	15754.4	15952.5
45°	18231.4	18040.8	17866.7	17592.7	17457.6	17211.4	17133.6	16991.0	16911.4	16952.2	17150.3
47.5°	19477.3	19355.2	19173.7	18996.1	18892.3	18672.0	18572.0	18470.3	18368.4	18364.8	18572.0
50°	21906.2	21841.4	21626.7	21441.6	21491.6	21221.2	21238.0	20963.9	21087.9	21102.8	21537.8
52.5°	24188.8	24414.7	24573.9	24768.3	24894.1	24918.2	25001.6	25125.6	25275.5	25571.7	25975.3
55°	25495.8	25779.0	25943.8	26091.9	26336.3	26388.2	26527.0	26691.8	26823.2	27156.4	27498.9
57.5°	27049.1	27574.9	27830.3	28065.4	28395.0	28520.8	28752.2	28931.9	29102.2	29496.5	29911.2
60°	28006.2	28646.6	29167.0	29539.0	29951.9	30248.1	30597.9	30879.4	31279.3	31751.3	32369.7
62.5°	27245.3	28185.7	28876.2	29515.0	30075.9	30642.5	31144.2	31669.9	32277.1	32991.7	33950.6
65°	24214.8	25171.9	26354.9	27017.6	27759.9	28633.8	29396.5	30248.1	31075.6	32116.0	33534.1
67.5°	19494.0	20606.7	21935.9	22604.1	23457.5	24433.2	25288.5	26329.0	27295.2	28556.0	30309.2
70°	14051.2	15489.6	16607.9	17305.8	18301.8	19306.9	20132.6	21343.5	22143.1	23435.3	25247.7
72.5°	8897.3	10032.0	11402.1	12281.4	13166.3	14184.5	15028.7	16072.8	16819.0	17996.3	19638.4
75°	4783.7	5620.6	6823.8	7658.7	8606.6	9476.7	10465.3	11165.1	11716.8	12648.0	13981.0
77.5°	2241.9	2751.0	3360.0	4002.5	4644.8	5315.0	5966.6	6533.1	6770.1	7303.3	8090.1
80°	1360.8	1525.5	1703.2	1901.2	2169.7	2386.3	2673.2	2880.6	2895.4	3063.8	3304.5
82.5°	908.9	970.1	1023.8	1073.7	1142.2	1196.0	1257.0	1329.2	1358.8	1397.8	1475.4
85°	620.1	649.8	660.9	692.3	684.9	703.5	727.5	751.6	764.6	762.7	797.9
87.5°	381.4	396.2	403.6	411.1	405.5	398.0	409.1	422.1	425.8	414.6	418.4
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	3178.7	3178.7	3178.7	3178.7	3178.7	3178.7	3178.7	3178.7	3178.7	3178.7	3178.7
2.5°	3393.4	3376.7	3360.0	3349.1	3345.3	3247.1	3204.6	3176.8	3117.6	3069.4	3030.6
5°	3743.3	3708.2	3680.4	3647.1	3628.5	3380.5	3289.7	3226.8	3123.0	3062.0	3006.5
7.5°	4306.1	4208.0	4150.5	4085.7	4030.2	3582.2	3432.3	3334.1	3189.8	3108.3	3045.4
10°	4944.7	4842.9	4752.2	4652.3	4565.3	3850.7	3632.3	3480.5	3289.7	3184.3	3100.9
12.5°	5657.6	5557.6	5442.8	5315.0	5203.9	4191.3	3887.7	3671.1	3410.1	3269.4	3152.7
15°	6499.9	6323.9	6185.1	6037.0	5907.4	4598.6	4185.7	3885.8	3537.9	3347.1	3191.6
17.5°	7282.9	7097.8	6909.0	6779.4	6629.5	5055.9	4485.6	4104.4	3643.4	3397.1	3199.0
20°	8047.5	7845.7	7682.8	7508.9	7351.4	5529.8	4805.9	4296.8	3711.9	3398.9	3152.7
22.5°	8721.4	8595.5	8414.0	8225.2	8066.1	6003.7	5105.8	4459.8	3737.8	3356.3	3071.3
25°	9487.8	9354.6	9132.3	8973.1	8795.5	6486.9	5400.1	4585.6	3722.9	3276.8	2945.4
27.5°	10306.1	10158.0	9930.2	9763.6	9548.9	6988.6	5670.4	4676.3	3667.4	3147.2	2777.0
30°	11159.5	11024.4	10800.4	10631.9	10415.3	7519.9	5972.2	4737.5	3556.3	2967.6	2580.7
32.5°	12075.9	11963.1	11740.8	11565.0	11333.6	8095.7	6253.7	4755.9	3387.8	2754.8	2373.3
35°	12946.0	12868.2	12681.2	12516.5	12275.9	8639.9	6551.7	4746.7	3187.8	2521.4	2184.5
37.5°	13925.3	13879.1	13786.5	13577.3	13282.9	9378.6	6909.0	4707.8	2943.6	2290.1	2040.1
40°	14969.5	14973.1	14873.3	14730.7	14456.6	10274.6	7334.8	4631.9	2677.0	2086.5	1908.6
42.5°	16074.7	16132.0	16083.9	15982.1	15719.2	11178.0	7843.8	4539.4	2417.8	1888.3	1779.1
45°	17341.0	17411.3	17485.3	17335.4	17080.0	12370.3	8514.0	4419.0	2138.2	1723.6	1690.2
47.5°	18801.7	18912.7	18979.3	18981.2	18725.7	13847.6	9602.6	4346.8	1890.1	1612.4	1647.6
50°	21884.0	21919.1	22076.5	22350.5	22154.3	17266.9	11503.9	4302.4	1721.7	1544.0	1616.2
52.5°	26325.3	26712.1	26984.3	26965.7	26699.1	19438.5	12551.7	4072.8	1621.7	1518.0	1601.3
55°	28133.9	28617.0	29120.7	29253.9	29046.6	21291.6	13542.1	3843.3	1573.6	1536.5	1606.8
57.5°	30544.3	31358.8	32049.3	32339.9	32040.2	23663.1	14845.4	3722.9	1558.8	1586.6	1642.0
60°	33360.1	34367.2	35274.4	35796.4	35796.4	26388.2	16196.8	3673.0	1538.4	1660.6	1701.2
62.5°	35168.8	36648.0	38017.9	38782.4	38760.3	28285.7	16796.7	3502.7	1492.2	1712.4	1782.8
65°	35176.2	36934.9	38680.6	39539.7	39584.1	28052.5	15806.2	3093.4	1406.9	1719.8	1864.3
67.5°	32243.7	34119.2	36153.7	37114.5	37336.6	25823.5	13682.9	2543.7	1268.2	1645.8	1893.9
70°	27232.4	29063.3	31140.4	32084.5	32478.9	22013.5	11020.7	1960.5	1090.4	1482.8	1832.8
72.5°	21454.4	23250.3	24696.1	25386.6	25694.0	16826.3	8025.3	1481.0	894.2	1249.6	1668.0
75°	15189.8	16537.5	17305.8	17459.4	17507.6	10143.2	4876.2	1101.6	736.9	972.0	1408.8
77.5°	8573.2	9150.9	9087.9	9156.5	8586.2	3915.5	2123.5	788.7	607.3	738.7	1092.3
80°	3347.1	3450.7	3241.6	3176.8	2914.0	1457.0	936.8	549.8	485.0	559.1	764.6
82.5°	1475.4	1523.6	1479.2	1490.3	1425.5	751.6	560.9	398.0	370.3	409.1	507.3
85°	812.7	827.5	823.9	847.9	812.7	299.9	266.6	244.4	259.2	277.7	325.8
87.5°	396.2	399.9	386.9	407.3	394.3	151.8	131.4	138.9	151.8	155.4	155.4
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°	3178.7	3178.7	3178.7	3178.7	3178.7	3178.7
2.5°	3002.8	2987.9	2989.8	2986.2	2978.7	2978.7
5°	2976.9	2962.0	2962.0	2958.3	2949.1	2951.0
7.5°	3002.8	2978.7	2969.4	2956.4	2943.6	2943.6
10°	3032.4	2989.8	2963.8	2941.7	2925.0	2925.0
12.5°	3054.6	2987.9	2945.4	2915.8	2899.0	2899.0
15°	3062.0	2975.0	2915.8	2880.6	2865.8	2863.9
17.5°	3038.0	2925.0	2852.9	2812.2	2793.5	2788.1
20°	2963.8	2834.3	2747.4	2701.0	2675.1	2665.8
22.5°	2852.9	2704.7	2602.9	2554.8	2521.4	2515.9
25°	2697.3	2538.1	2438.1	2391.9	2373.3	2367.7
27.5°	2515.9	2367.7	2282.7	2253.0	2236.3	2234.5
30°	2343.7	2217.9	2154.9	2132.6	2112.3	2108.6
32.5°	2182.7	2103.0	2078.9	2047.5	1999.3	1993.9
35°	2067.8	2060.5	2043.8	1973.4	1914.2	1897.7
37.5°	1997.5	2066.0	1980.9	1842.0	1799.4	1795.7
40°	1956.9	2008.6	1862.5	1814.2	1818.0	1814.2
42.5°	1864.3	1917.9	1866.0	1843.9	1858.7	1862.5
45°	1771.6	1830.9	1893.9	1879.0	1914.2	1914.2
47.5°	1719.8	1808.7	1892.1	1892.1	1943.8	1962.4
50°	1660.6	1790.2	1862.5	1888.3	1929.1	1914.2
52.5°	1656.9	1758.7	1819.8	1866.0	1884.6	1867.9
55°	1662.5	1732.9	1777.2	1829.1	1851.3	1853.1
57.5°	1669.8	1718.0	1747.6	1771.6	1838.3	1838.3
60°	1688.4	1705.0	1721.7	1734.6	1821.7	1823.5
62.5°	1718.0	1692.1	1688.4	1701.2	1812.4	1805.0
65°	1764.3	1673.6	1645.8	1658.8	1803.1	1780.9
67.5°	1827.3	1645.8	1592.1	1601.3	1795.7	1747.6
70°	1884.6	1601.3	1525.5	1516.2	1725.4	1640.2
72.5°	1890.1	1549.6	1432.9	1405.1	1499.6	1418.0
75°	1797.7	1514.4	1331.1	1249.6	1238.5	1227.4
77.5°	1619.9	1494.0	1212.6	1084.8	1062.6	1070.0
80°	1355.2	1418.0	1070.0	918.3	1038.6	1025.6
82.5°	1012.7	1251.4	908.9	812.7	810.8	716.4
85°	562.8	975.5	740.6	609.1	423.9	411.1
87.5°	157.4	542.5	518.3	344.3	235.1	244.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)