

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: P193155

Luminaire Tested: **GAN-AF-07-LED-U-T2R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193155
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-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 42423.2 lumens
Efficiency: N/A
Efficacy: 108.5 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

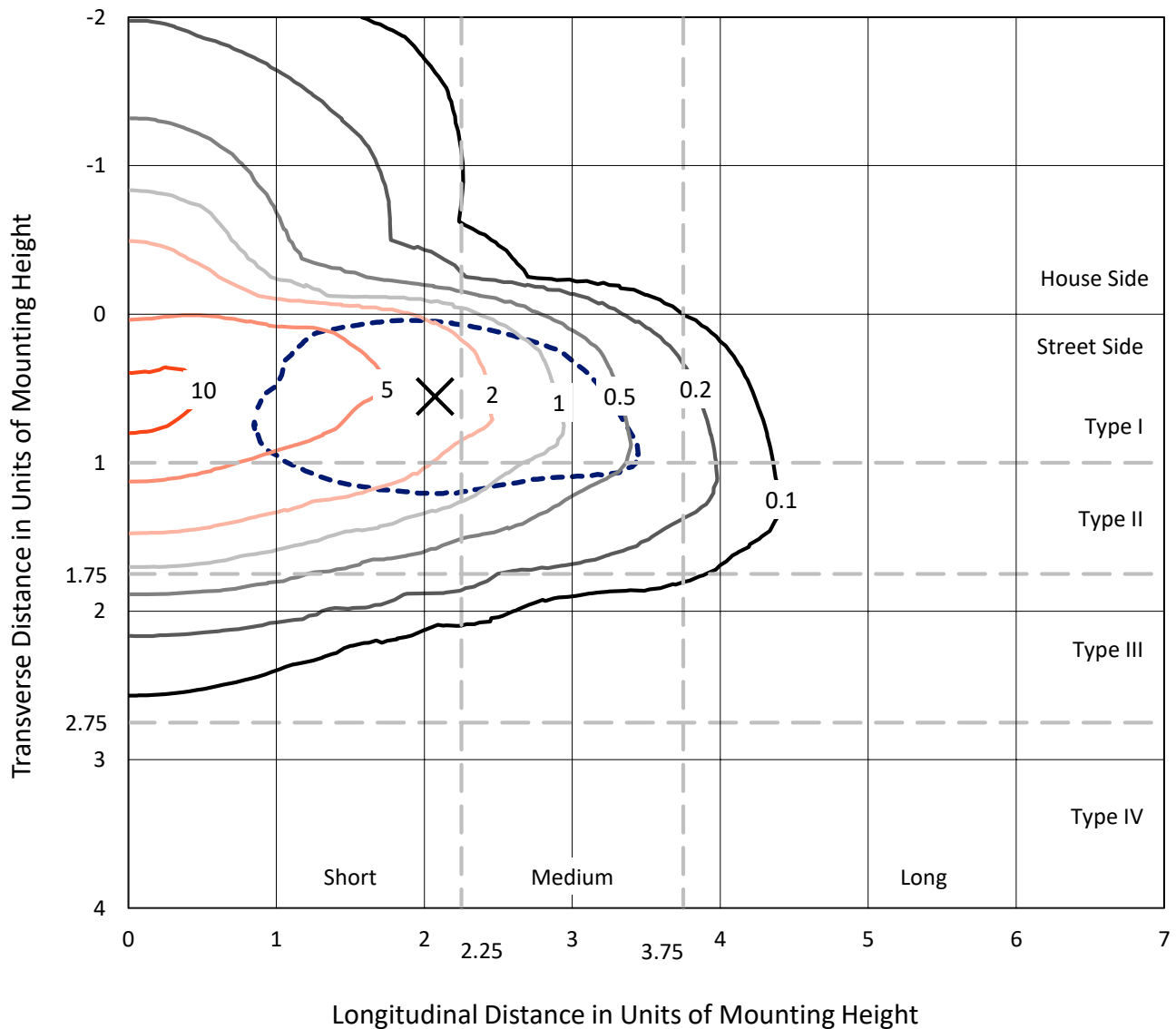


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

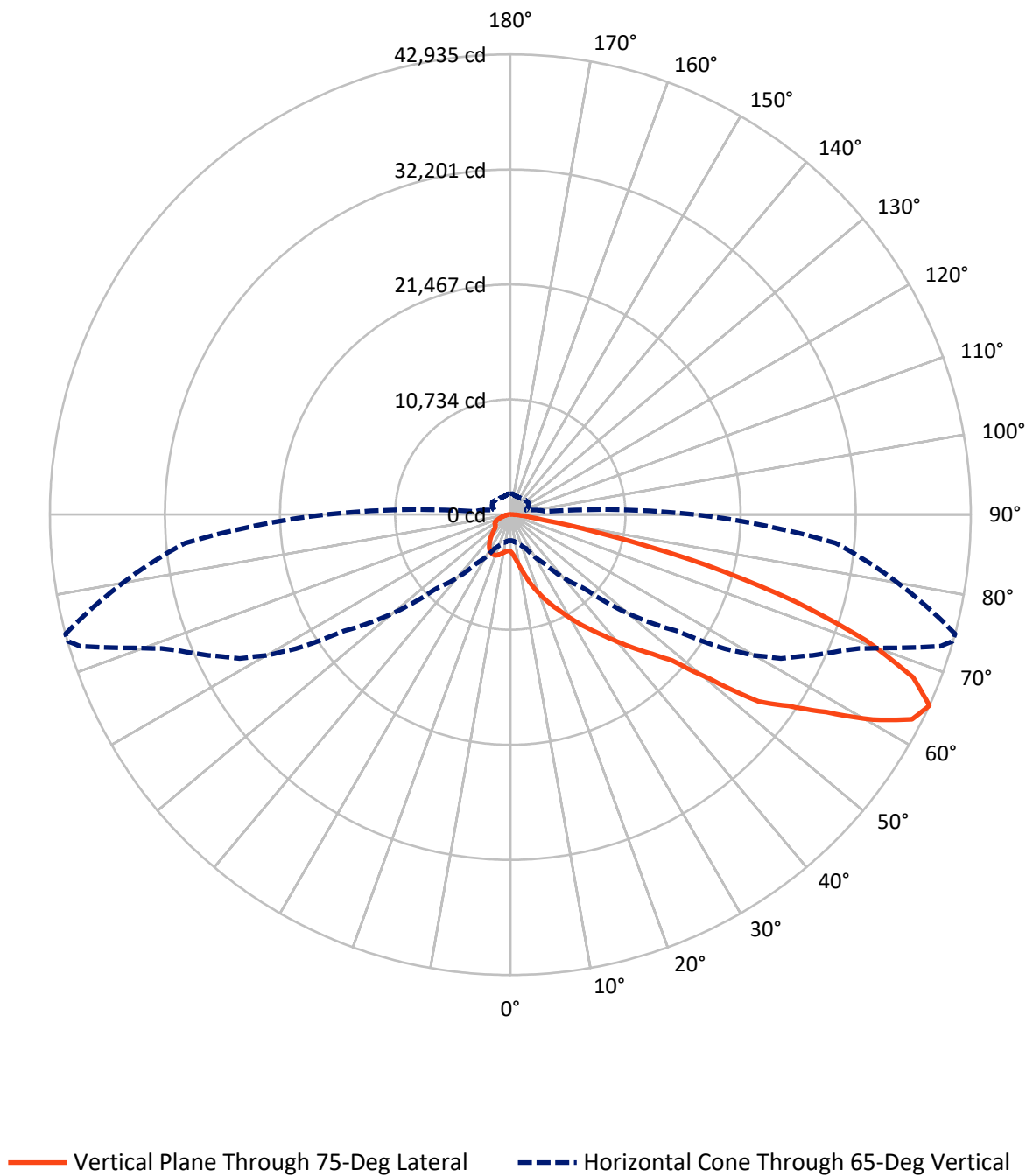


Based on 30 foot mounting height. Maximum calculated value = 11.9 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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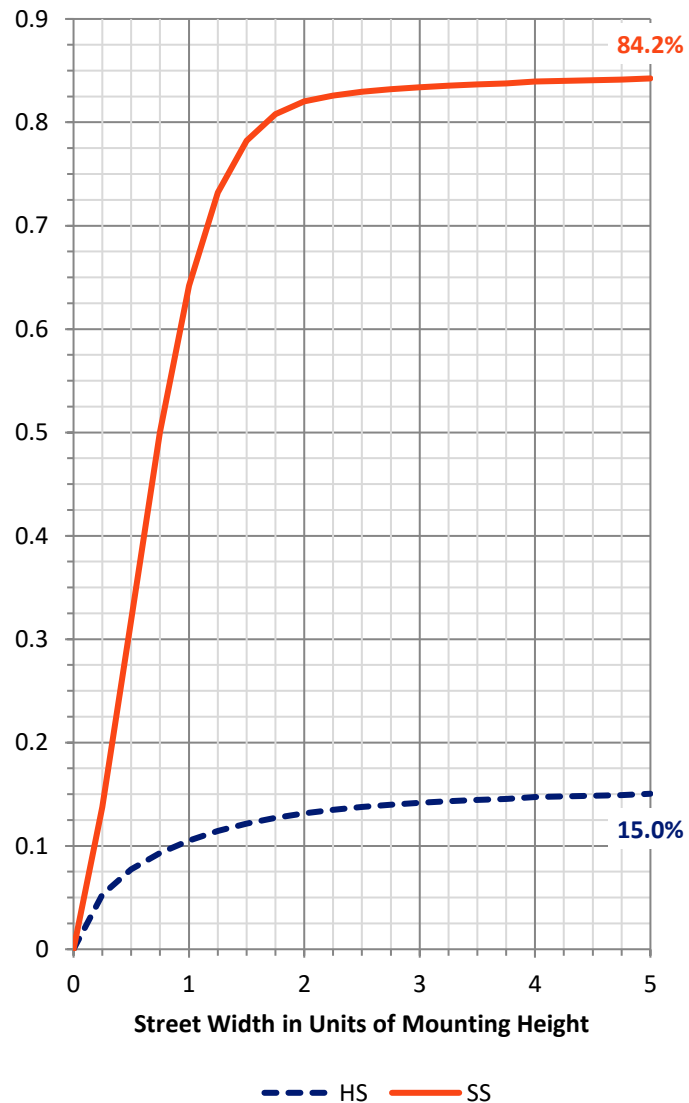
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6540.7	0.0	6540.7
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	35882.5	0.0	35882.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	42423.2	0.0	42423.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.1	1.0
10°-20°	1665.0	3.9
20°-30°	3416.1	8.1
30°-40°	5747.5	13.5
40°-50°	7941.4	18.7
50°-60°	9913.2	23.4
60°-70°	8920.9	21.0
70°-80°	3739.5	8.8
80°-90°	653.3	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°	42423.2	100.0
0°-180°	42423.2	100.0

Coefficient of Utilization



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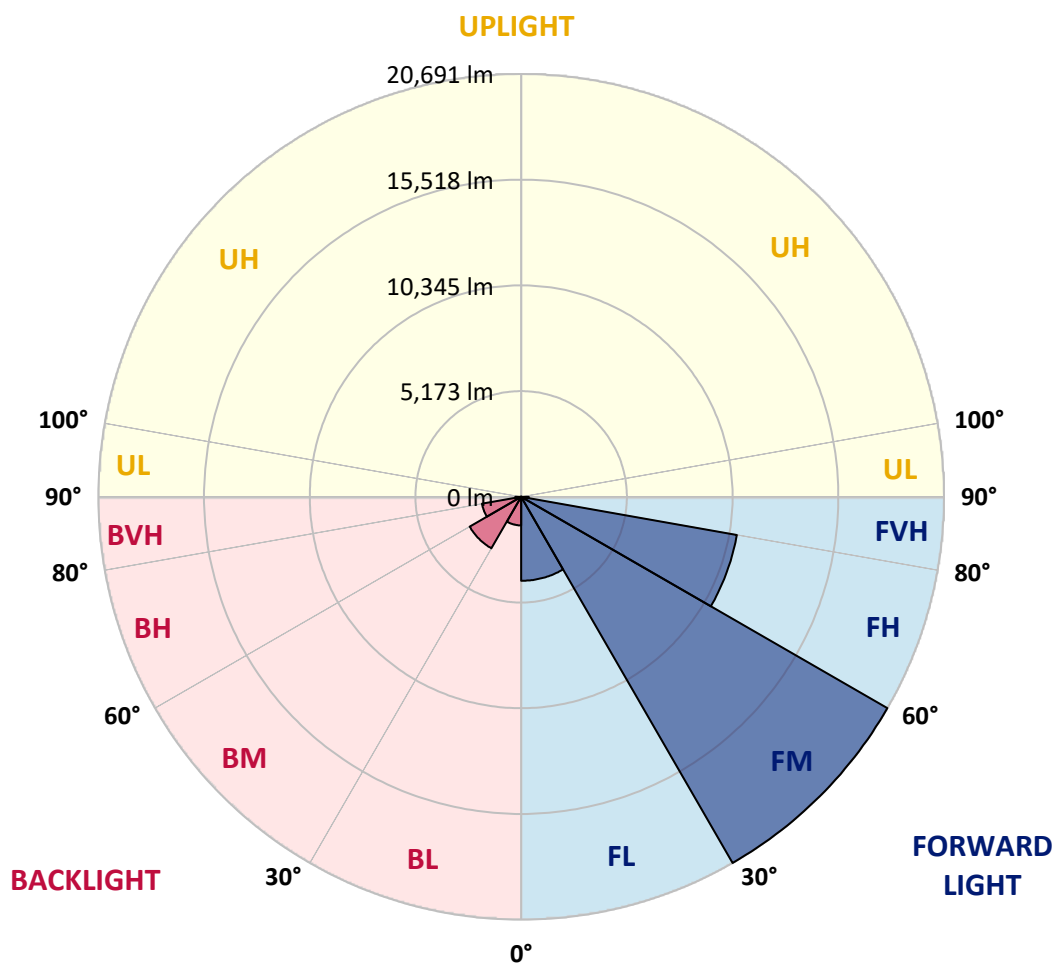
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4108.6	9.7			
FM	(30°-60°)	20690.8	48.8			
FH	(60°-80°)	10715.9	25.3			G4/12000
FVH	(80°-90°)	367.2	0.9			G3/500
BL	(0°-30°)	1398.8	3.3	B3/2500		
BM	(30°-60°)	2911.3	6.9	B3/5000		
BH	(60°-80°)	1944.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	286.1	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°	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6
2.5°	4377.4	4329.2	4341.2	4260.9	4162.6	4034.1	3891.5	3889.4	3891.5	3877.4	3825.1
5°	6070.1	6011.9	5989.8	5809.1	5544.1	5166.6	4756.9	4712.7	4694.7	4648.4	4542.0
7.5°	7305.0	7272.9	7238.8	7102.2	6861.3	6439.6	5889.4	5795.0	5704.7	5682.6	5562.1
10°	8102.2	8094.2	8021.9	7985.8	7835.1	7469.6	6933.6	6843.2	6744.8	6710.7	6584.2
12.5°	8732.6	8730.7	8696.5	8706.6	8576.1	8311.1	7849.1	7766.8	7694.6	7590.1	7499.8
15°	9168.4	9170.4	9220.6	9276.8	9256.8	9078.1	8644.4	8608.2	8545.9	8473.7	8367.2
17.5°	9525.9	9535.9	9588.0	9690.5	9800.9	9786.9	9443.5	9413.3	9359.1	9260.9	9204.5
20°	10333.0	10371.2	10270.8	10270.8	10282.8	10337.0	10172.4	10148.3	10071.9	10019.8	9975.6
22.5°	11696.4	11740.7	11513.7	11282.7	11056.0	10891.3	10726.6	10756.7	10704.5	10668.4	10642.3
25°	13467.6	13501.6	13134.2	12744.6	12282.8	11680.4	11272.9	11254.7	11226.6	11204.5	11192.4
27.5°	15134.1	15148.1	14800.8	14230.6	13694.4	12829.0	11827.0	11804.9	11770.7	11728.6	11692.5
30°	16559.8	16555.7	16198.3	15654.2	15079.9	14122.1	12668.3	12600.1	12499.7	12385.2	12296.8
32.5°	17794.7	17788.6	17397.2	16832.9	16230.5	15403.2	13820.9	13680.4	13523.7	13300.7	13166.3
35°	18766.6	18762.5	18393.0	17804.8	17114.0	16610.0	15142.1	14969.5	14770.6	14471.5	14264.7
37.5°	19134.0	19134.0	18927.2	18525.6	17915.1	17569.8	16610.0	16401.1	16188.3	15848.9	15616.0
40°	18919.2	18923.1	18967.3	18893.0	18595.8	18330.9	17979.3	17854.9	17672.2	17367.0	17123.9
42.5°	18198.3	18220.4	18513.6	18873.0	19021.6	18979.4	19194.2	19138.1	19009.5	18774.6	18581.8
45°	17284.7	17352.9	17674.3	18353.0	19140.0	19539.6	20212.3	20218.3	20194.2	20067.7	19919.2
47.5°	16029.7	16126.0	16549.7	17467.4	18862.9	20083.8	21246.4	21300.6	21350.8	21268.5	21200.2
50°	14363.0	14477.5	15111.9	16328.9	18298.7	20648.1	23200.1	23445.2	23674.1	23645.9	23692.1
52.5°	12577.9	12712.6	13489.5	14844.9	17328.8	20778.5	24449.2	24848.8	25248.2	25575.6	25923.0
55°	10967.6	10895.4	11672.3	13100.0	15734.5	20190.2	25571.6	26053.5	26499.3	26900.8	27314.5
57.5°	8784.9	8903.3	9682.4	11094.0	13624.1	18529.6	26344.7	27049.5	27690.0	28354.6	28940.9
60°	6421.5	6539.9	7385.4	8819.1	11333.0	16011.6	25754.3	26822.6	27848.6	28866.7	29661.8
62.5°	3877.4	3965.8	4710.7	6076.1	8738.7	13025.8	23123.8	24525.4	26035.4	27252.2	28471.1
65°	2413.5	2463.8	2738.9	3489.8	5612.3	9724.6	18893.0	20421.1	22047.5	23591.7	24858.7
67.5°	1975.9	1993.9	2044.1	2204.8	3082.2	6341.2	14061.8	15415.3	16883.1	18377.0	19786.7
70°	1777.1	1765.0	1765.0	1775.0	1975.9	3409.6	9206.6	10088.1	11310.9	12610.0	13899.2
72.5°	1604.4	1592.4	1570.3	1540.1	1612.4	2080.3	4758.9	5423.5	6305.1	7459.6	8694.6
75°	1441.6	1425.7	1399.6	1361.4	1411.6	1570.3	2285.0	2564.2	2993.9	3608.3	4297.0
77.5°	1273.1	1252.9	1228.8	1200.8	1265.0	1220.9	1339.3	1439.7	1604.4	1801.1	2060.2
80°	1082.3	1064.1	1056.2	1042.2	1118.5	929.7	945.7	1008.0	1104.4	1210.8	1331.4
82.5°	847.5	847.5	879.5	885.5	969.9	668.6	706.8	761.0	811.2	867.4	923.7
85°	558.2	562.2	670.7	712.8	765.1	449.8	530.1	548.2	588.4	620.5	644.5
87.5°	174.7	188.8	409.6	453.8	439.8	255.0	325.3	333.3	361.4	383.5	403.6
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°	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6
2.5°	3825.1	3801.1	3779.1	3777.0	3760.9	3738.9	3746.9	3712.7	3714.7	3696.7	3676.6
5°	4497.8	4481.9	4401.5	4379.4	4319.1	4281.0	4275.0	4194.7	4184.6	4138.4	4088.3
7.5°	5465.7	5413.5	5301.0	5246.8	5144.5	5068.1	5031.9	4925.5	4873.4	4752.9	4698.7
10°	6479.7	6413.5	6275.0	6198.6	6100.3	5977.8	5911.5	5756.9	5696.7	5586.2	5453.6
12.5°	7419.5	7353.2	7210.7	7152.4	7021.9	6891.4	6819.1	6644.4	6566.1	6389.4	6284.9
15°	8289.0	8222.7	8098.2	8037.8	7907.4	7801.0	7704.6	7531.9	7439.6	7274.9	7138.4
17.5°	9132.3	9062.0	8953.6	8899.3	8772.9	8664.4	8560.0	8397.3	8302.9	8138.2	8015.8
20°	9915.4	9863.2	9784.8	9712.6	9586.1	9487.6	9363.2	9222.7	9086.1	8965.6	8849.1
22.5°	10598.1	10578.1	10493.7	10461.6	10353.1	10268.8	10160.3	10021.8	9923.5	9770.8	9662.4
25°	11186.4	11180.4	11140.3	11130.2	11053.9	10973.6	10949.5	10835.0	10744.7	10610.1	10497.7
27.5°	11692.5	11698.5	11688.4	11716.5	11696.4	11660.3	11662.4	11624.2	11571.9	11459.5	11361.1
30°	12254.6	12222.5	12240.7	12280.7	12292.9	12296.8	12363.1	12385.2	12381.1	12306.9	12258.7
32.5°	13049.8	12973.6	12903.3	12897.2	12937.4	12953.4	13065.9	13124.1	13174.4	13192.4	13200.4
35°	14063.9	13911.2	13764.7	13686.4	13618.1	13636.2	13716.5	13810.8	13921.3	13997.6	14088.0
37.5°	15341.0	15154.1	14895.2	14710.4	14664.2	14563.8	14616.0	14690.4	14798.8	14917.2	15073.9
40°	16889.1	16606.0	16314.8	16069.9	15937.3	15752.6	15750.6	15736.5	15802.8	15913.2	16134.1
42.5°	18379.0	18128.0	17818.8	17561.8	17389.0	17142.1	17091.9	16961.4	16991.5	17087.9	17302.8
45°	19774.5	19567.7	19379.0	19081.8	18935.1	18668.1	18583.8	18429.2	18342.9	18387.0	18601.9
47.5°	21126.0	20993.4	20796.6	20603.9	20491.3	20252.4	20144.0	20033.6	19923.1	19919.2	20144.0
50°	23760.4	23690.1	23457.2	23256.4	23310.6	23017.4	23035.4	22738.3	22872.9	22888.9	23360.8
52.5°	26236.2	26481.1	26653.9	26864.6	27001.2	27027.4	27117.7	27252.2	27414.9	27736.2	28173.9
55°	27653.8	27961.1	28139.8	28300.5	28565.5	28621.7	28772.4	28951.0	29093.5	29454.9	29826.4
57.5°	29338.6	29908.8	30185.9	30440.9	30798.3	30934.9	31185.9	31380.7	31565.4	31993.1	32442.9
60°	30376.7	31071.4	31635.7	32039.3	32487.0	32808.4	33187.8	33493.1	33926.7	34438.8	35109.5
62.5°	29551.4	30571.4	31320.4	32013.2	32621.5	33236.0	33780.2	34350.4	35009.1	35784.1	36824.3
65°	26264.3	27302.5	28585.5	29304.4	30109.5	31057.4	31884.7	32808.4	33705.9	34834.4	36372.5
67.5°	21144.0	22350.7	23792.6	24517.3	25443.1	26501.3	27429.0	28557.4	29605.7	30973.1	32874.6
70°	15240.6	16800.7	18013.6	18770.5	19850.9	20941.1	21836.8	23150.0	24017.4	25418.9	27384.7
72.5°	9650.4	10881.2	12367.2	13320.9	14280.7	15385.2	16300.7	17433.3	18242.5	19519.5	21300.6
75°	5188.6	6096.2	7401.4	8307.0	9335.1	10278.8	11351.1	12110.1	12708.5	13718.5	15164.2
77.5°	2431.7	2983.9	3644.5	4341.2	5038.1	5764.8	6471.8	7086.1	7343.2	7921.6	8774.8
80°	1475.9	1654.6	1847.3	2062.2	2353.3	2588.3	2899.5	3124.4	3140.4	3323.2	3584.2
82.5°	985.9	1052.1	1110.4	1164.6	1238.9	1297.1	1363.4	1441.6	1473.9	1516.0	1600.3
85°	672.7	704.8	716.8	750.9	743.0	763.0	789.2	815.3	829.3	827.3	865.5
87.5°	413.6	429.7	437.7	445.8	439.8	431.7	443.8	457.8	461.8	449.8	453.8
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6
2.5°	3680.6	3662.6	3644.5	3632.5	3628.4	3522.0	3475.7	3445.7	3381.5	3329.2	3287.1
5°	4060.1	4022.0	3991.9	3955.7	3935.6	3666.5	3568.2	3499.9	3387.5	3321.2	3261.0
7.5°	4670.5	4564.1	4501.9	4431.5	4371.4	3885.5	3722.8	3616.4	3459.7	3371.4	3303.1
10°	5363.3	5252.8	5154.6	5046.0	4951.6	4176.6	3939.7	3775.0	3568.2	3453.6	3363.3
12.5°	6136.3	6028.0	5903.5	5764.8	5644.5	4546.1	4216.8	3981.9	3698.7	3546.1	3419.6
15°	7050.0	6859.3	6708.6	6548.0	6407.4	4987.8	4540.0	4214.7	3837.3	3630.4	3461.8
17.5°	7899.3	7698.6	7493.8	7353.2	7190.6	5483.8	4865.4	4451.7	3951.7	3684.7	3469.7
20°	8728.7	8509.7	8333.1	8144.4	7973.6	5997.8	5212.8	4660.6	4025.9	3686.6	3419.6
22.5°	9459.5	9323.0	9126.2	8921.4	8748.7	6511.9	5538.1	4837.2	4054.1	3640.4	3331.2
25°	10290.9	10146.3	9905.3	9732.7	9539.9	7036.0	5857.3	4973.8	4038.0	3554.1	3194.7
27.5°	11178.5	11017.8	10770.8	10590.1	10357.1	7580.1	6150.4	5072.2	3977.8	3413.6	3012.0
30°	12104.1	11957.6	11714.6	11531.8	11296.9	8156.4	6477.8	5138.5	3857.3	3218.8	2799.1
32.5°	13098.0	12975.5	12734.6	12543.8	12292.9	8780.8	6783.0	5158.4	3674.6	2987.9	2574.2
35°	14041.8	13957.5	13754.6	13575.9	13314.9	9371.2	7106.2	5148.4	3457.7	2734.9	2369.4
37.5°	15104.0	15053.8	14953.4	14726.5	14407.3	10172.4	7493.8	5106.2	3192.7	2483.9	2212.8
40°	16236.5	16240.6	16132.1	15977.4	15680.3	11144.2	7955.6	5024.0	2903.6	2263.0	2070.3
42.5°	17435.3	17497.6	17445.3	17334.8	17049.7	12124.2	8507.8	4923.6	2622.4	2048.2	1929.6
45°	18808.8	18885.0	18965.3	18802.7	18525.6	13417.2	9234.7	4792.9	2319.2	1869.4	1833.3
47.5°	20393.0	20513.5	20585.7	20587.8	20310.6	15019.7	10415.3	4714.7	2050.1	1748.9	1787.1
50°	23736.2	23774.5	23945.1	24242.3	24029.5	18728.3	12477.5	4666.6	1867.5	1674.6	1752.9
52.5°	28553.4	28973.1	29268.3	29248.1	28959.0	21083.8	13614.0	4417.6	1759.0	1646.5	1736.9
55°	30515.2	31039.3	31585.4	31730.1	31505.1	23093.7	14688.4	4168.6	1706.7	1666.6	1742.9
57.5°	33129.6	34013.1	34762.0	35077.3	34752.1	25666.0	16102.0	4038.0	1690.7	1720.9	1781.0
60°	36183.7	37276.1	38260.0	38826.3	38826.3	28621.7	17567.8	3983.8	1668.6	1801.1	1845.3
62.5°	38145.5	39749.9	41235.7	42065.2	42041.0	30679.9	18218.3	3799.1	1618.4	1857.4	1933.7
65°	38153.6	40061.1	41954.7	42886.3	42934.5	30426.8	17144.1	3355.4	1526.1	1865.4	2022.1
67.5°	34972.9	37006.9	39213.8	40255.9	40496.8	28009.2	14840.9	2758.9	1375.5	1785.1	2054.2
70°	29537.3	31523.3	33776.2	34800.2	35227.9	23876.9	11953.5	2126.4	1182.7	1608.4	1987.9
72.5°	23270.5	25218.1	26786.4	27535.4	27868.6	18250.4	8704.5	1606.3	969.9	1355.4	1809.3
75°	16475.4	17937.2	18770.5	18937.3	18989.5	11001.8	5289.0	1194.8	799.1	1054.2	1528.1
77.5°	9298.9	9925.4	9857.2	9931.4	9313.0	4246.9	2303.1	855.4	658.7	801.2	1184.7
80°	3630.4	3742.9	3516.0	3445.7	3160.6	1580.3	1016.0	596.3	526.1	606.4	829.3
82.5°	1600.3	1652.5	1604.4	1616.4	1546.1	815.3	608.5	431.7	401.6	443.8	550.2
85°	881.5	897.6	893.5	919.6	881.5	325.3	289.1	265.1	281.2	301.2	353.5
87.5°	429.7	433.8	419.7	441.7	427.7	164.7	142.6	150.6	164.7	168.7	168.7
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):

	135°	145°	155°	165°	175°	180°
0°	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6
2.5°	3256.9	3240.8	3243.0	3238.9	3230.8	3230.8
5°	3228.8	3212.8	3212.8	3208.7	3198.7	3200.7
7.5°	3256.9	3230.8	3220.8	3206.8	3192.7	3192.7
10°	3289.0	3243.0	3214.7	3190.7	3172.6	3172.6
12.5°	3313.2	3240.8	3194.7	3162.5	3144.5	3144.5
15°	3321.2	3226.9	3162.5	3124.4	3108.3	3106.3
17.5°	3295.0	3172.6	3094.3	3050.1	3030.1	3024.0
20°	3214.7	3074.2	2979.8	2929.7	2901.5	2891.4
22.5°	3094.3	2933.6	2823.3	2771.1	2734.9	2728.9
25°	2925.6	2752.9	2644.5	2594.3	2574.2	2568.2
27.5°	2728.9	2568.2	2475.9	2443.7	2425.7	2423.6
30°	2542.1	2405.6	2337.3	2313.2	2291.0	2287.2
32.5°	2367.4	2281.2	2255.0	2220.8	2168.6	2162.6
35°	2242.9	2234.9	2216.8	2140.5	2076.3	2058.2
37.5°	2166.6	2240.9	2148.6	1998.0	1951.8	1947.8
40°	2122.5	2178.6	2019.9	1967.9	1971.8	1967.9
42.5°	2022.1	2080.3	2024.0	2000.0	2016.1	2019.9
45°	1921.7	1985.9	2054.2	2038.1	2076.3	2076.3
47.5°	1865.4	1961.7	2052.1	2052.1	2108.3	2128.5
50°	1801.1	1941.7	2019.9	2048.2	2092.4	2076.3
52.5°	1797.1	1907.5	1973.9	2024.0	2044.1	2026.0
55°	1803.3	1879.5	1927.7	1983.9	2007.9	2010.0
57.5°	1811.2	1863.4	1895.5	1921.7	1993.9	1993.9
60°	1831.3	1849.3	1867.5	1881.5	1975.9	1977.8
62.5°	1863.4	1835.3	1831.3	1845.3	1965.8	1957.8
65°	1913.5	1815.3	1785.1	1799.2	1955.7	1931.7
67.5°	1981.9	1785.1	1726.9	1736.9	1947.8	1895.5
70°	2044.1	1736.9	1654.6	1644.6	1871.4	1779.1
72.5°	2050.1	1680.6	1554.2	1524.0	1626.5	1538.2
75°	1949.7	1642.5	1443.8	1355.4	1343.4	1331.4
77.5°	1757.0	1620.5	1315.3	1176.7	1152.5	1160.7
80°	1469.9	1538.2	1160.7	996.0	1126.5	1112.4
82.5°	1098.4	1357.4	985.9	881.5	879.5	777.1
85°	610.4	1058.1	803.2	660.6	459.9	445.8
87.5°	170.7	588.4	562.2	373.4	255.0	265.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)