

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: P191406

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191406
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-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 41075.6 lumens
Efficiency: N/A
Efficacy: 123.0 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

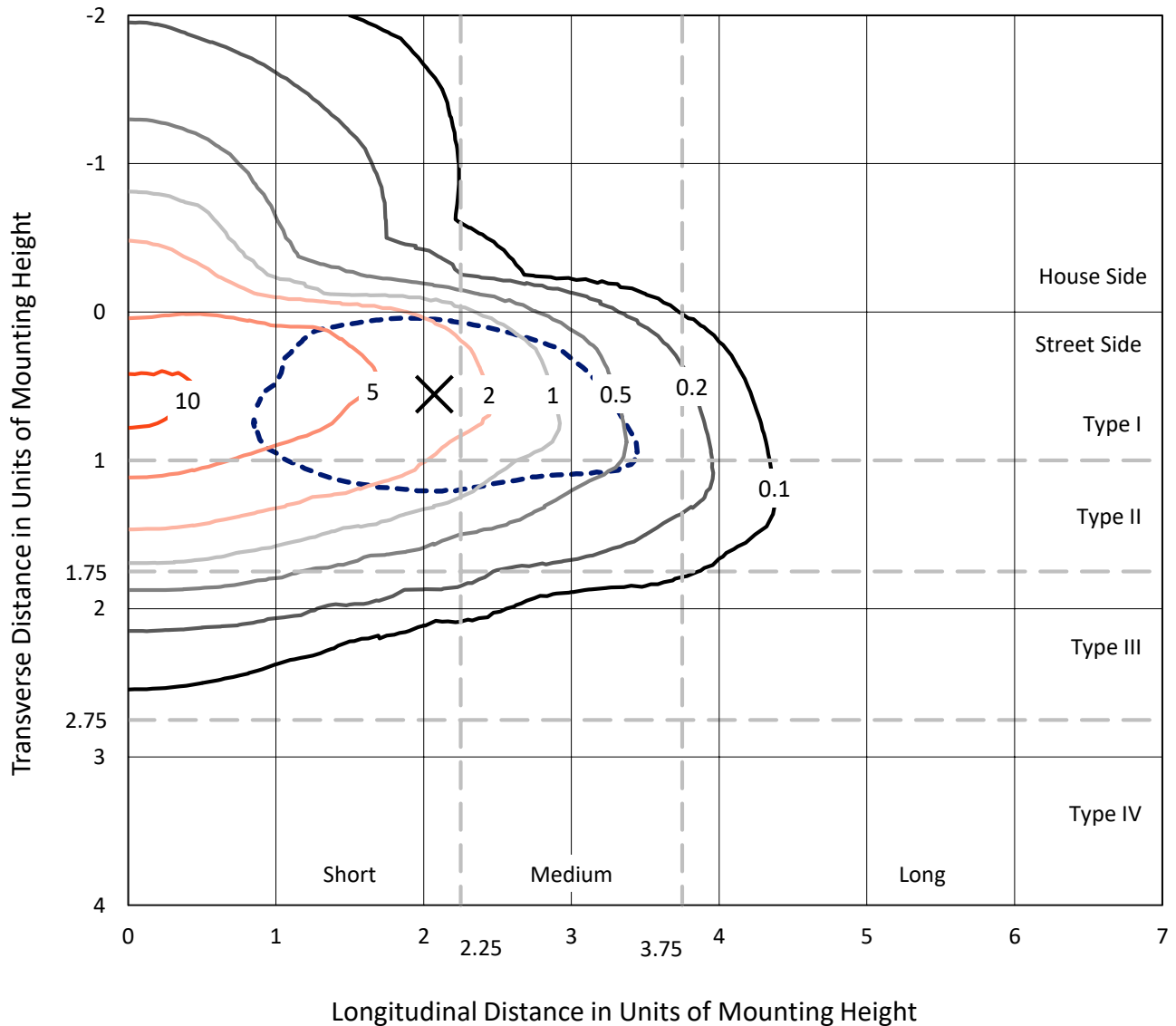
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

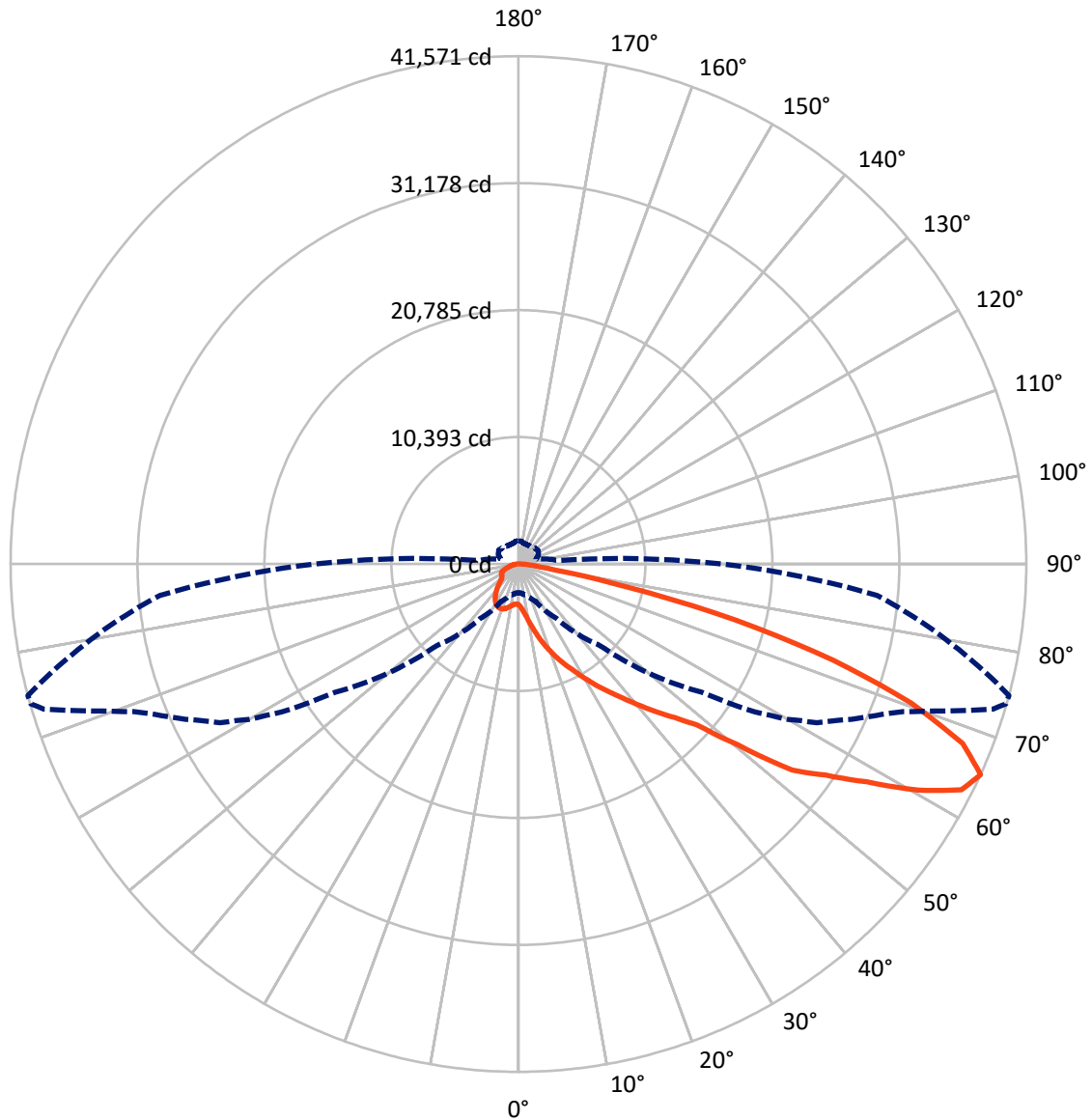
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.5 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	6332.9	0.0	6332.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	34742.7	0.0	34742.7
	% Fixture	84.6	0.0	84.6
Total	Lumens	41075.6	0.0	41075.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.6	1.0
10°-20°	1612.2	3.9
20°-30°	3307.6	8.1
30°-40°	5564.9	13.5
40°-50°	7689.1	18.7
50°-60°	9598.4	23.4
60°-70°	8637.5	21.0
70°-80°	3620.7	8.8
80°-90°	632.6	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°	41075.6	100.0
0°-180°	41075.6	100.0

Coefficient of Utilization



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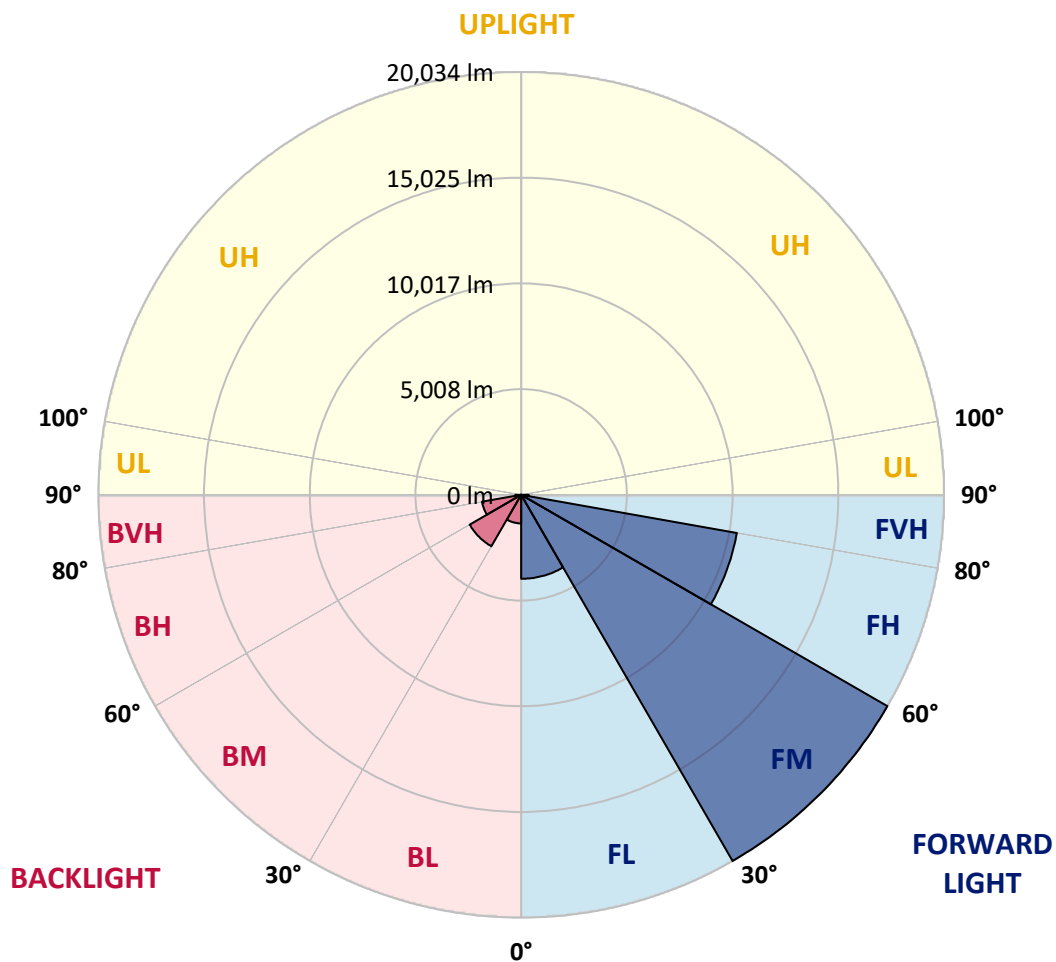
CATALOG NUMBER: GAN-AF-08-LED-U-T2R-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3978.0	9.7			
FM	(30°-60°)	20033.5	48.8			
FH	(60°-80°)	10375.5	25.3			G4/12000
FVH	(80°-90°)	355.5	0.9			G3/500
BL	(0°-30°)	1354.3	3.3	B3/2500		
BM	(30°-60°)	2818.8	6.9	B3/5000		
BH	(60°-80°)	1882.7	4.6	B3/2500		G3/2500
BVH	(80°-90°)	277.0	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°	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2
2.5°	4238.3	4191.6	4203.3	4125.6	4030.3	3905.8	3767.8	3765.9	3767.8	3754.2	3703.7
5°	5877.3	5820.9	5799.5	5624.6	5367.9	5002.4	4605.8	4563.0	4545.5	4500.8	4397.8
7.5°	7073.0	7041.9	7008.8	6876.6	6643.3	6235.0	5702.3	5610.9	5523.4	5502.0	5385.4
10°	7844.8	7837.0	7767.1	7732.1	7586.2	7232.4	6713.3	6625.8	6530.5	6497.5	6375.0
12.5°	8455.3	8453.4	8420.3	8430.0	8303.6	8047.0	7599.8	7520.1	7450.2	7349.1	7261.5
15°	8877.2	8879.1	8927.7	8982.1	8962.7	8789.7	8369.8	8334.7	8274.4	8204.5	8101.5
17.5°	9223.2	9232.9	9283.5	9382.7	9489.6	9476.0	9143.5	9114.4	9061.9	8966.6	8912.2
20°	10004.8	10041.7	9944.5	9944.5	9956.2	10008.7	9849.3	9826.0	9752.1	9701.5	9658.7
22.5°	11324.9	11367.6	11148.0	10924.4	10704.7	10545.3	10385.9	10415.1	10364.4	10329.5	10304.2
25°	13039.7	13072.7	12716.9	12339.8	11892.6	11309.3	10914.7	10897.2	10870.0	10848.6	10836.9
27.5°	14653.4	14667.0	14330.6	13778.4	13259.4	12421.4	11451.3	11429.9	11396.8	11356.0	11321.0
30°	16033.7	16029.8	15683.8	15157.0	14600.9	13673.5	12265.9	12199.8	12102.6	11991.7	11906.2
32.5°	17229.5	17223.6	16844.4	16298.2	15714.9	14913.9	13381.8	13245.8	13094.1	12878.3	12748.0
35°	18170.4	18166.5	17808.8	17239.2	16570.4	16082.3	14661.1	14494.0	14301.5	14011.8	13811.6
37.5°	18526.2	18526.2	18326.0	17937.1	17346.1	17011.7	16082.3	15880.2	15674.1	15345.5	15119.9
40°	18318.2	18322.1	18364.8	18292.9	18005.2	17748.5	17408.3	17287.8	17110.8	16815.3	16580.1
42.5°	17620.2	17641.6	17925.5	18273.5	18417.3	18376.5	18584.6	18530.0	18405.6	18178.1	17991.6
45°	16735.6	16801.7	17112.7	17769.9	18532.0	18919.0	19570.2	19576.1	19552.7	19430.2	19286.4
47.5°	15520.5	15613.8	16024.0	16912.5	18263.8	19445.8	20571.4	20624.0	20672.6	20592.8	20526.7
50°	13906.8	14017.6	14632.0	15810.1	17717.4	19992.1	22463.2	22700.4	22922.0	22894.8	22939.5
52.5°	12178.4	12308.7	13061.0	14373.4	16778.3	20118.5	23672.5	24059.4	24446.3	24763.2	25099.5
55°	10619.2	10549.2	11301.6	12683.9	15234.7	19548.8	24759.3	25225.9	25657.4	26046.4	26446.9
57.5°	8505.8	8620.5	9374.9	10741.7	13191.4	17941.0	25507.8	26190.2	26810.4	27454.0	28021.6
60°	6217.5	6332.3	7150.7	8538.9	10973.0	15503.0	24936.2	25970.5	26964.0	27949.7	28719.5
62.5°	3754.2	3839.7	4561.0	5883.1	8461.1	12612.0	22389.3	23746.4	25208.4	26386.6	27566.7
65°	2336.9	2385.5	2651.9	3379.0	5434.0	9415.8	18292.9	19772.4	21347.2	22842.3	24069.1
67.5°	1913.1	1930.6	1979.2	2134.7	2984.4	6139.8	13615.2	14925.6	16346.8	17793.2	19158.0
70°	1720.6	1708.9	1708.9	1718.7	1913.1	3301.3	8914.1	9767.6	10951.6	12209.5	13457.7
72.5°	1553.5	1541.8	1520.3	1491.2	1561.2	2014.2	4607.8	5251.2	6104.8	7222.6	8418.4
75°	1395.9	1380.4	1355.1	1318.2	1366.8	1520.3	2212.4	2482.7	2898.8	3493.7	4160.5
77.5°	1232.7	1213.2	1189.8	1162.6	1224.9	1182.0	1296.8	1394.0	1553.5	1743.9	1994.8
80°	1047.9	1030.4	1022.6	1009.0	1082.9	900.2	915.7	976.0	1069.3	1172.3	1289.0
82.5°	820.4	820.4	851.6	857.4	939.1	647.4	684.4	736.8	785.4	839.8	894.4
85°	540.5	544.4	649.4	690.2	740.7	435.5	513.3	530.8	569.7	600.8	624.1
87.5°	169.1	182.8	396.6	439.4	425.8	246.9	315.0	322.7	350.0	371.3	390.8
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°	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2
2.5°	3703.7	3680.4	3659.0	3657.0	3641.5	3620.1	3627.9	3594.9	3596.8	3579.3	3559.8
5°	4355.0	4339.5	4261.7	4240.2	4181.9	4145.0	4139.2	4061.4	4051.7	4007.0	3958.4
7.5°	5292.1	5241.5	5132.7	5080.2	4981.1	4907.1	4872.1	4769.1	4718.6	4601.9	4549.4
10°	6273.9	6209.7	6075.6	6001.8	5906.4	5787.9	5723.7	5574.0	5515.6	5408.8	5280.5
12.5°	7183.8	7119.6	6981.6	6925.2	6798.8	6672.5	6602.4	6433.3	6357.5	6186.4	6085.3
15°	8025.7	7961.4	7840.9	7782.6	7656.2	7553.2	7459.9	7292.6	7203.2	7043.8	6911.6
17.5°	8842.2	8774.2	8669.1	8616.6	8494.2	8389.2	8288.0	8130.6	8039.3	7879.8	7761.2
20°	9600.4	9549.9	9474.1	9404.1	9281.5	9186.3	9065.8	8929.6	8797.5	8680.8	8568.0
22.5°	10261.4	10242.0	10160.4	10129.3	10024.2	9942.6	9837.6	9703.5	9608.2	9460.5	9355.4
25°	10831.1	10825.3	10786.4	10776.7	10702.7	10625.0	10601.7	10490.9	10403.4	10273.1	10164.2
27.5°	11321.0	11326.8	11317.1	11344.3	11324.9	11289.9	11291.8	11254.9	11204.4	11095.5	11000.2
30°	11865.4	11834.3	11851.8	11890.7	11902.3	11906.2	11970.4	11991.7	11987.9	11915.9	11869.3
32.5°	12635.3	12561.4	12493.4	12487.6	12526.4	12542.0	12650.8	12707.2	12755.8	12773.4	12781.2
35°	13617.1	13469.4	13327.4	13251.6	13185.5	13203.0	13280.8	13372.1	13479.1	13553.0	13640.4
37.5°	14853.7	14672.8	14422.0	14243.2	14198.5	14101.2	14151.8	14223.7	14328.7	14443.3	14595.1
40°	16352.6	16078.4	15796.5	15559.4	15431.0	15252.2	15250.3	15236.6	15300.8	15407.7	15621.6
42.5°	17795.2	17552.2	17252.8	17003.9	16836.6	16597.6	16549.0	16422.6	16451.7	16545.1	16753.1
45°	19146.4	18946.2	18763.4	18475.6	18333.7	18075.1	17993.5	17843.7	17760.2	17802.9	18011.0
47.5°	20454.8	20326.5	20136.0	19949.4	19840.4	19609.1	19504.1	19397.2	19290.3	19286.4	19504.1
50°	23005.7	22937.5	22712.1	22517.6	22570.1	22286.2	22303.8	22016.0	22146.3	22161.8	22618.7
52.5°	25402.8	25640.0	25807.2	26011.3	26143.6	26168.8	26256.3	26386.6	26544.0	26855.1	27278.9
55°	26775.4	27072.9	27245.9	27401.4	27658.0	27712.5	27858.3	28031.3	28169.4	28519.4	28879.0
57.5°	28406.5	28958.7	29227.0	29474.0	29820.0	29952.2	30195.3	30383.8	30562.7	30976.8	31412.3
60°	29411.7	30084.4	30630.7	31021.5	31455.0	31766.1	32133.5	32429.1	32849.0	33344.8	33994.2
62.5°	28612.7	29600.3	30325.5	30996.2	31585.3	32180.3	32707.1	33259.3	33897.0	34647.4	35654.5
65°	25430.0	26435.2	27677.5	28373.5	29153.2	30070.8	30871.8	31766.1	32635.2	33727.8	35217.0
67.5°	20472.3	21640.8	23036.8	23738.6	24634.8	25659.4	26557.6	27650.3	28665.1	29989.1	31830.3
70°	14756.4	16267.1	17441.3	18174.3	19220.2	20276.0	21143.1	22414.6	23254.4	24611.5	26514.9
72.5°	9343.7	10535.6	11974.3	12897.8	13827.1	14896.4	15782.9	16879.5	17663.0	18899.5	20624.0
75°	5023.8	5902.5	7166.3	8043.2	9038.6	9952.3	10990.5	11725.4	12304.8	13282.7	14682.5
77.5°	2354.4	2889.0	3528.7	4203.3	4877.9	5581.7	6266.1	6861.0	7109.9	7669.9	8496.1
80°	1429.0	1602.0	1788.6	1996.7	2278.6	2506.0	2807.4	3025.2	3040.7	3217.6	3470.4
82.5°	954.6	1018.8	1075.1	1127.6	1199.6	1256.0	1320.1	1395.9	1427.0	1467.8	1549.6
85°	651.3	682.4	694.1	727.1	719.3	738.8	764.0	789.3	802.9	801.0	837.9
87.5°	400.5	416.0	423.8	431.6	425.8	418.0	429.6	443.2	447.1	435.5	439.4
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°	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2
2.5°	3563.7	3546.2	3528.7	3517.0	3513.1	3410.1	3365.4	3336.3	3274.1	3223.4	3182.6
5°	3931.2	3894.2	3865.0	3830.0	3810.6	3550.0	3454.8	3388.7	3279.9	3215.6	3157.3
7.5°	4522.2	4419.1	4358.9	4290.9	4232.5	3762.0	3604.6	3501.5	3349.9	3264.3	3198.2
10°	5192.9	5086.0	4990.8	4885.7	4794.4	4043.9	3814.5	3655.1	3454.8	3344.0	3256.6
12.5°	5941.4	5836.4	5715.9	5581.7	5465.1	4401.7	4082.8	3855.3	3581.2	3433.4	3311.0
15°	6826.0	6641.4	6495.5	6340.0	6203.9	4829.4	4395.8	4080.9	3715.4	3515.1	3351.8
17.5°	7648.4	7454.0	7255.7	7119.6	6962.1	5309.6	4710.8	4310.3	3826.1	3567.5	3359.6
20°	8451.4	8239.5	8068.4	7885.6	7720.4	5807.3	5047.1	4512.4	3898.1	3569.5	3311.0
22.5°	9159.1	9026.9	8836.4	8638.0	8470.9	6305.1	5362.1	4683.6	3925.4	3524.8	3225.4
25°	9964.0	9824.0	9590.7	9423.5	9236.8	6812.4	5671.2	4815.7	3909.7	3441.2	3093.2
27.5°	10823.3	10667.7	10428.7	10253.6	10028.1	7339.4	5955.0	4911.0	3851.4	3305.2	2916.3
30°	11719.5	11577.7	11342.4	11165.5	10938.0	7897.3	6271.9	4975.2	3734.8	3116.5	2710.2
32.5°	12681.9	12563.4	12330.0	12145.4	11902.3	8501.9	6567.4	4994.7	3557.8	2892.9	2492.4
35°	13595.7	13514.1	13317.7	13144.7	12891.9	9073.6	6880.5	4984.9	3347.9	2648.0	2294.2
37.5°	14624.2	14575.6	14478.4	14258.7	13949.6	9849.3	7255.7	4944.1	3091.3	2405.0	2142.5
40°	15720.7	15724.6	15619.6	15469.9	15182.2	10790.3	7702.9	4864.3	2811.3	2191.1	2004.5
42.5°	16881.5	16941.7	16891.2	16784.2	16508.1	11739.0	8237.5	4767.2	2539.1	1983.1	1868.3
45°	18211.2	18285.1	18362.9	18205.4	17937.1	12991.1	8941.3	4640.8	2245.6	1810.0	1775.0
47.5°	19745.2	19861.8	19931.9	19933.8	19665.5	14542.6	10084.6	4564.9	1985.0	1693.4	1730.3
50°	22982.3	23019.3	23184.5	23472.2	23266.1	18133.4	12081.2	4518.3	1808.1	1621.5	1697.3
52.5°	27646.4	28052.7	28338.5	28319.1	28039.1	20414.0	13181.6	4277.3	1703.1	1594.3	1681.7
55°	29545.9	30053.3	30582.1	30722.1	30504.4	22360.2	14221.8	4036.2	1652.6	1613.7	1687.6
57.5°	32077.2	32932.7	33657.8	33963.1	33648.1	24850.6	15590.5	3909.7	1637.0	1666.2	1724.5
60°	35034.3	36092.0	37044.6	37592.8	37592.8	27712.5	17009.7	3857.2	1615.6	1743.9	1786.7
62.5°	36933.7	38487.2	39925.9	40728.9	40705.6	29705.3	17639.7	3678.4	1567.1	1798.3	1872.2
65°	36941.6	38788.6	40621.9	41524.0	41570.7	29460.4	16599.5	3248.8	1477.6	1806.1	1957.8
67.5°	33861.9	35831.4	37968.1	38977.1	39210.4	27119.6	14369.5	2671.3	1331.8	1728.4	1988.9
70°	28599.0	30521.9	32703.2	33694.8	34108.9	23118.4	11573.8	2058.9	1145.1	1557.3	1924.8
72.5°	22531.2	24417.1	25935.5	26660.7	26983.4	17670.8	8428.1	1555.4	939.1	1312.3	1751.7
75°	15952.1	17367.5	18174.3	18335.7	18386.2	10652.2	5121.0	1156.8	773.8	1020.7	1479.5
77.5°	9003.5	9610.1	9544.0	9615.9	9017.1	4112.0	2230.0	828.2	637.7	775.7	1147.0
80°	3515.1	3624.0	3404.3	3336.3	3060.2	1530.0	983.8	577.5	509.3	587.2	802.9
82.5°	1549.6	1600.1	1553.5	1565.1	1497.0	789.3	589.1	418.0	388.8	429.6	532.8
85°	853.6	869.1	865.2	890.5	853.6	315.0	280.0	256.7	272.2	291.6	342.2
87.5°	416.0	419.9	406.3	427.7	414.1	159.4	138.0	145.8	159.4	163.3	163.3
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°	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2
2.5°	3153.5	3137.9	3139.8	3136.0	3128.2	3128.2
5°	3126.2	3110.7	3110.7	3106.8	3097.1	3099.0
7.5°	3153.5	3128.2	3118.5	3104.9	3091.3	3091.3
10°	3184.5	3139.8	3112.6	3089.3	3071.8	3071.8
12.5°	3207.9	3137.9	3093.2	3062.1	3044.6	3044.6
15°	3215.6	3124.3	3062.1	3025.2	3009.6	3007.7
17.5°	3190.4	3071.8	2996.0	2953.3	2933.8	2928.0
20°	3112.6	2976.6	2885.1	2836.5	2809.3	2799.6
22.5°	2996.0	2840.4	2733.5	2683.0	2648.0	2642.2
25°	2832.7	2665.5	2560.5	2511.9	2492.4	2486.6
27.5°	2642.2	2486.6	2397.2	2366.1	2348.6	2346.6
30°	2461.3	2329.2	2263.1	2239.8	2218.4	2214.5
32.5°	2292.2	2208.6	2183.3	2150.2	2099.7	2093.9
35°	2171.6	2163.8	2146.4	2072.5	2010.3	1992.8
37.5°	2097.8	2169.7	2080.3	1934.5	1889.8	1885.9
40°	2055.0	2109.4	1955.9	1905.3	1909.2	1905.3
42.5°	1957.8	2014.2	1959.8	1936.4	1952.0	1955.9
45°	1860.5	1922.8	1988.9	1973.4	2010.3	2010.3
47.5°	1806.1	1899.5	1987.0	1987.0	2041.4	2060.8
50°	1743.9	1880.1	1955.9	1983.1	2025.9	2010.3
52.5°	1740.0	1846.9	1911.2	1959.8	1979.2	1961.7
55°	1745.9	1819.7	1866.4	1920.9	1944.2	1946.2
57.5°	1753.6	1804.2	1835.3	1860.5	1930.6	1930.6
60°	1773.1	1790.6	1808.1	1821.7	1913.1	1915.1
62.5°	1804.2	1777.0	1773.1	1786.7	1903.4	1895.6
65°	1852.8	1757.5	1728.4	1742.0	1893.7	1870.3
67.5°	1919.0	1728.4	1672.0	1681.7	1885.9	1835.3
70°	1979.2	1681.7	1602.0	1592.3	1812.0	1722.5
72.5°	1985.0	1627.3	1504.8	1475.6	1574.8	1489.2
75°	1887.9	1590.4	1397.9	1312.3	1300.7	1289.0
77.5°	1701.2	1569.0	1273.5	1139.3	1115.9	1123.7
80°	1423.1	1489.2	1123.7	964.3	1090.7	1077.1
82.5°	1063.5	1314.3	954.6	853.6	851.6	752.4
85°	591.1	1024.6	777.6	639.7	445.2	431.6
87.5°	165.2	569.7	544.4	361.6	246.9	256.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)