

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: P317942

Luminaire Tested: **GAN-SA8D-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50523 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

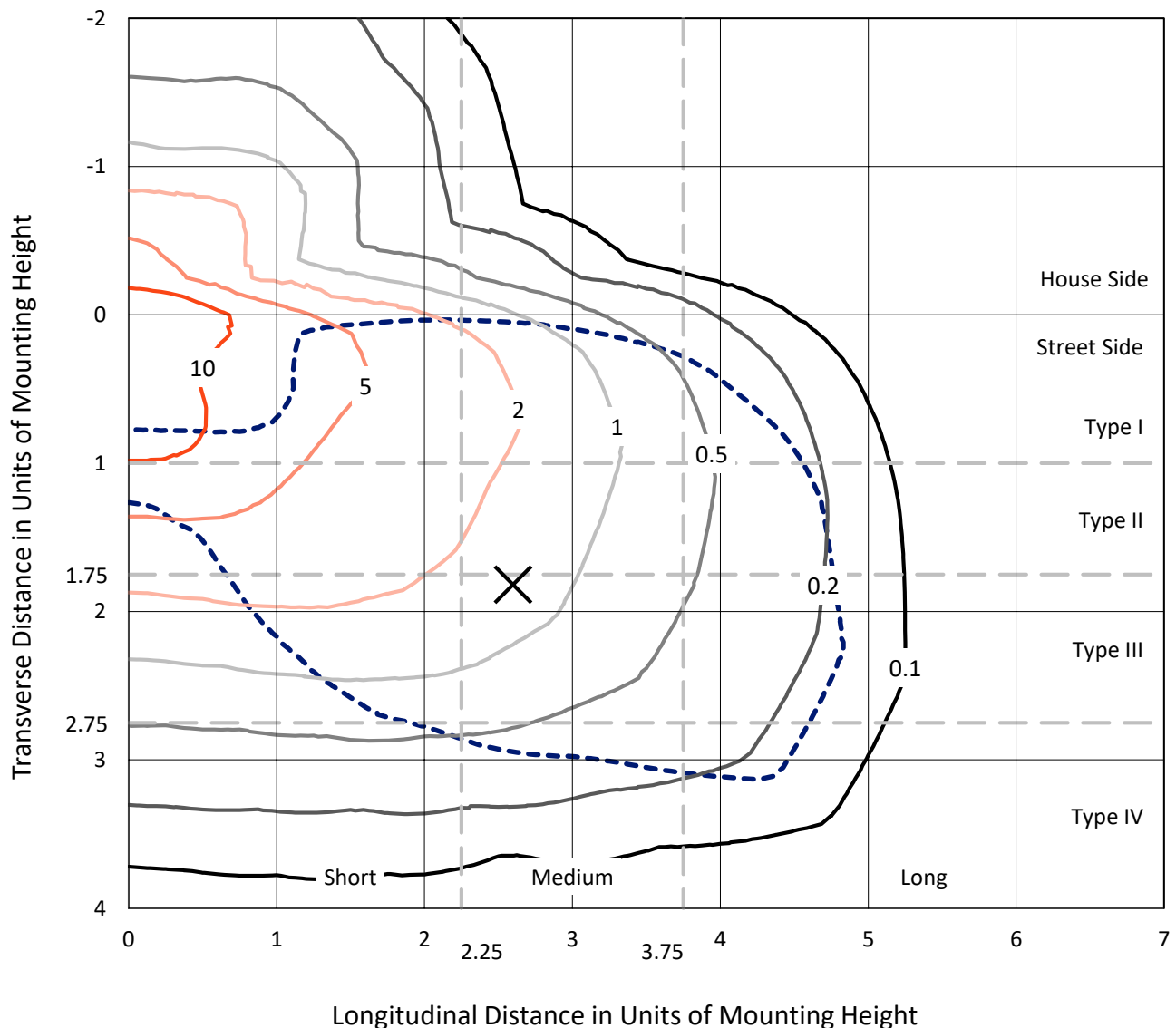
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

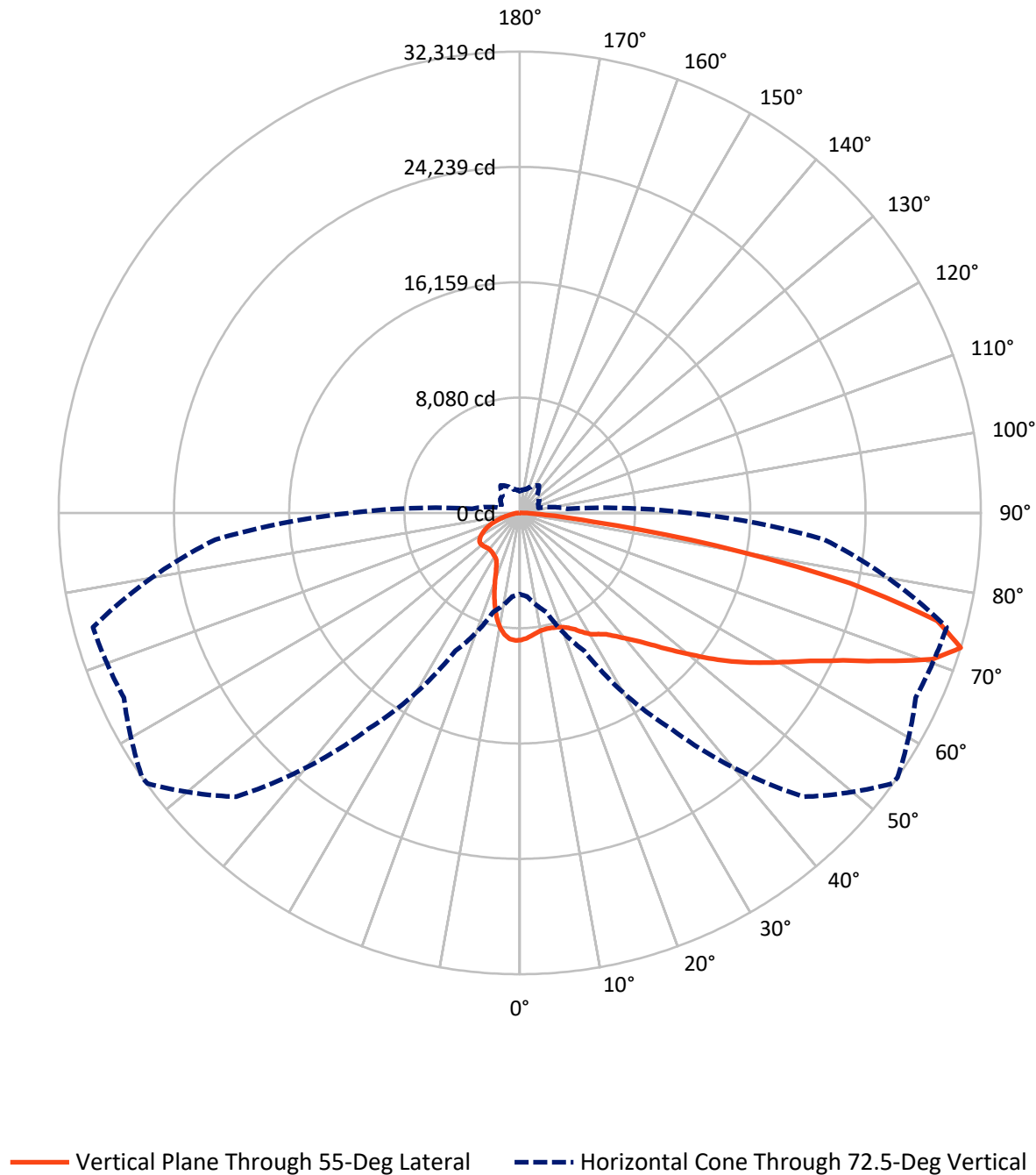
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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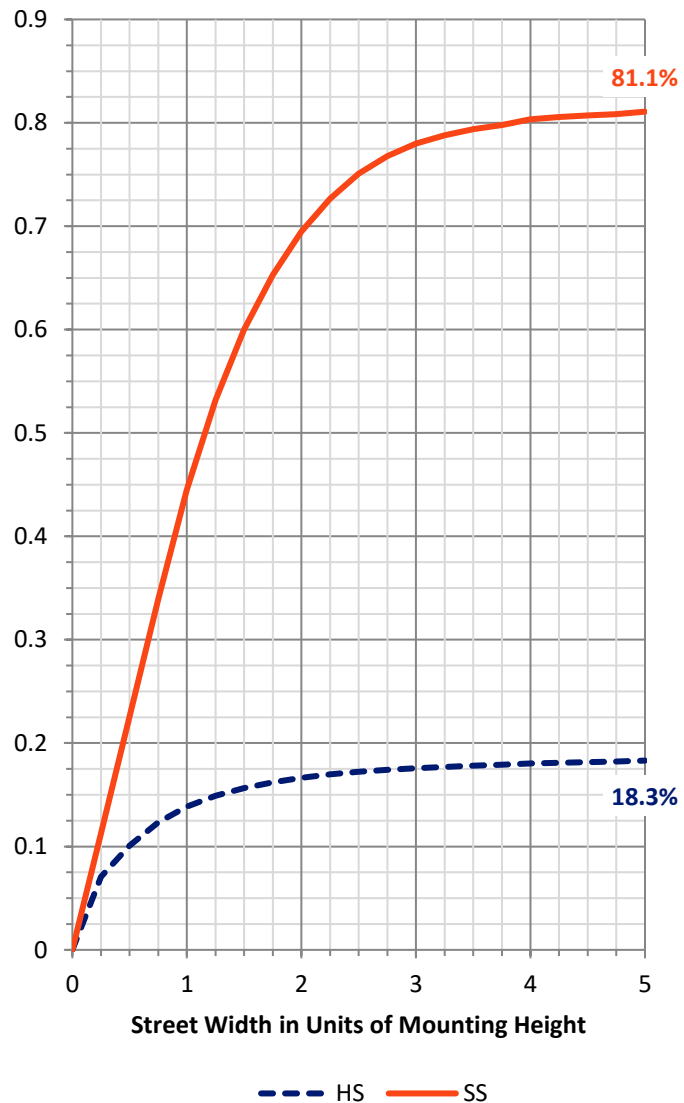
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9390.6	0.0	9390.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	41132.4	0.0	41132.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	50523.0	0.0	50523.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	806.4	1.6
10°-20°	2146.8	4.2
20°-30°	3539.6	7.0
30°-40°	5235.9	10.4
40°-50°	7308.2	14.5
50°-60°	9515.5	18.8
60°-70°	11694.3	23.1
70°-80°	9166.9	18.1
80°-90°	1109.3	2.2
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°	50523.0	100.0
0°-180°	50523.0	100.0

Coefficient of Utilization



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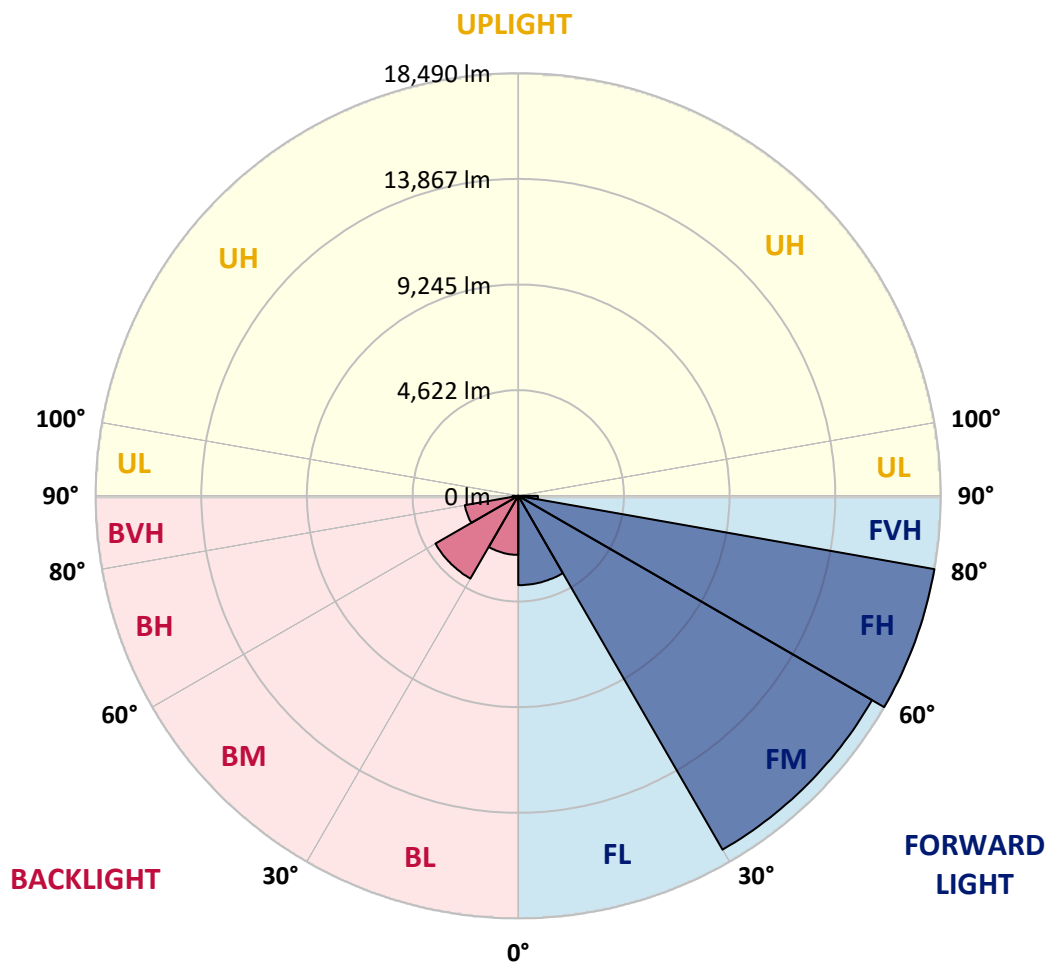
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3909.0	7.7			
FM	(30°-60°)	17876.0	35.4			
FH	(60°-80°)	18489.7	36.6			G5
FVH	(80°-90°)	857.7	1.7			G5
BL	(0°-30°)	2583.7	5.1	B4/5000		
BM	(30°-60°)	4183.6	8.3	B3/5000		
BH	(60°-80°)	2371.5	4.7	B3/2500		G3/2500
BVH	(80°-90°)	251.6	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8911.2	8911.2	8911.2	8911.2	8911.2	8911.2	8911.2	8911.2	8911.2	8911.2	8911.2
2.5°	8621.1	8600.6	8626.2	8662.0	8701.3	8754.2	8784.9	8798.5	8851.4	8871.9	8916.3
5°	8221.8	8211.5	8254.2	8315.6	8402.6	8525.5	8624.5	8643.3	8783.2	8882.2	8972.6
7.5°	7931.7	7931.7	7981.1	8054.5	8151.8	8317.3	8457.2	8482.8	8720.0	8933.4	9100.6
10°	7701.3	7709.8	7767.8	7854.9	7969.2	8145.0	8331.0	8360.0	8703.0	9052.8	9319.0
12.5°	7547.7	7568.2	7621.1	7699.6	7841.2	8054.5	8290.0	8329.3	8738.8	9223.5	9581.8
15°	7645.0	7679.1	7684.2	7716.6	7795.1	8027.2	8313.9	8354.9	8815.6	9397.5	9880.4
17.5°	8071.6	8083.5	8030.6	7962.4	7924.8	8073.3	8385.6	8428.2	8907.8	9569.9	10167.1
20°	8720.0	8713.2	8598.9	8414.6	8223.5	8247.4	8503.3	8547.7	9032.3	9721.7	10453.8
22.5°	9539.1	9515.3	9339.5	8999.9	8674.0	8537.5	8709.8	8747.3	9220.0	9938.5	10761.0
25°	10532.3	10479.4	10247.3	9791.7	9312.2	8960.7	9020.4	9056.2	9493.1	10180.8	11042.5
27.5°	11580.1	11527.2	11232.0	10680.8	10042.6	9494.8	9448.7	9479.4	9803.7	10360.0	11250.7
30°	12675.6	12619.3	12349.7	11732.0	10817.3	10047.7	9848.0	9860.0	10022.1	10457.2	11421.4
32.5°	13776.3	13723.4	13421.4	12704.6	11658.6	10641.5	10136.4	10121.1	10153.5	10557.9	11614.2
35°	14892.3	14912.8	14559.6	13766.1	12590.3	11301.9	10477.7	10445.3	10373.6	10764.4	11887.2
37.5°	16086.9	16073.2	15615.9	14786.5	13564.7	12018.6	10967.5	10962.3	10714.9	11155.2	12315.6
40°	16885.5	16894.0	16615.9	15830.9	14549.3	12812.2	11595.4	11583.5	11259.3	11740.5	12877.0
42.5°	17197.8	17254.1	17325.8	16827.5	15580.0	13731.9	12344.6	12327.5	12018.6	12580.1	13537.4
45°	17220.0	17332.6	17776.3	17713.1	16624.4	14784.8	13301.9	13254.1	13032.3	13696.1	14325.8
47.5°	17028.8	17144.9	17882.1	18240.4	17557.8	15895.7	14421.4	14383.8	14192.7	15092.0	15179.0
50°	16610.7	16721.7	17663.6	18498.1	18325.7	16964.0	15711.4	15612.5	15510.1	16704.6	16155.1
52.5°	15827.5	16040.8	17371.8	18559.5	18784.8	17912.8	17068.1	17003.2	17059.5	18406.0	17132.9
55°	13972.6	14211.5	16619.3	18508.3	19124.4	18709.7	18424.7	18421.3	18713.1	20190.9	18182.4
57.5°	12933.3	13102.3	15086.9	18421.3	19527.1	19501.5	19767.7	19800.1	20368.4	22134.6	19281.4
60°	12346.3	12523.8	14310.4	18098.8	20151.7	20525.4	21138.0	21202.9	22051.0	24286.4	20603.9
62.5°	11812.2	12006.7	13829.2	17441.8	20887.2	21989.5	22779.6	22837.6	23832.5	26498.0	21882.0
65°	10899.2	11119.3	13124.4	17010.1	21556.1	23899.1	24866.6	24905.9	25878.6	28815.4	22859.8
67.5°	9609.1	9810.5	11795.1	16056.1	22051.0	26218.2	27641.4	27663.5	27907.6	30451.9	23359.8
70°	8102.3	8179.1	9900.9	14086.9	21465.6	28387.1	30682.3	30687.4	29757.4	31499.7	23277.9
72.5°	5692.8	5873.7	7187.6	10663.7	18446.9	28122.6	32260.8	32318.8	30617.4	30970.7	21417.9
75°	3491.4	3682.6	4508.5	6462.4	11702.9	22117.5	29806.9	30209.6	29004.8	27614.0	17496.4
77.5°	2334.4	2406.1	2941.9	3767.9	5302.0	12725.1	22916.1	23673.8	24095.3	20138.0	11189.3
80°	1302.0	1438.6	1950.5	2341.3	2358.3	5056.3	13740.5	13917.9	13406.0	8018.7	3452.2
82.5°	689.4	764.5	1302.0	1375.4	1286.7	1692.8	5121.1	5126.2	4283.2	2150.1	1025.6
85°	534.1	597.3	892.5	839.6	657.0	750.8	1689.4	1781.6	1457.3	880.5	334.5
87.5°	266.2	331.1	605.8	532.4	257.7	215.0	604.1	645.0	575.1	344.7	121.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8911.2	8911.2	8911.2	8911.2	8911.2	8911.2	8911.2	8911.2	8911.2	8911.2	8911.2
2.5°	8933.4	8948.7	8967.5	8947.0	8940.2	8912.9	8866.8	8856.6	8832.7	8834.4	8848.0
5°	9011.9	9037.4	9027.2	8948.7	8854.9	8723.5	8586.9	8470.9	8394.1	8389.0	8383.9
7.5°	9162.0	9179.1	9098.9	8875.3	8612.5	8308.8	8022.1	7771.3	7619.4	7581.8	7573.3
10°	9397.5	9394.1	9174.0	8723.5	8199.6	7656.9	7196.2	6848.1	6645.0	6585.3	6569.9
12.5°	9660.3	9621.1	9199.6	8447.0	7616.0	6863.4	6279.8	5892.4	5680.8	5612.6	5595.5
15°	9931.6	9834.4	9136.4	8034.0	6899.2	6008.5	5395.8	5037.5	4923.2	4885.6	4878.8
17.5°	10184.2	9996.5	8955.5	7474.3	6081.8	5156.9	4679.1	4535.8	4563.1	4612.6	4614.3
20°	10431.6	10105.7	8665.4	6767.8	5220.1	4455.6	4293.5	4399.3	4529.0	4629.6	4643.3
22.5°	10675.7	10182.5	8291.7	5952.2	4448.8	4061.4	4175.7	4368.6	4517.0	4626.2	4645.0
25°	10880.4	10201.3	7776.4	5081.9	3912.9	3912.9	4119.4	4302.0	4448.8	4556.3	4575.0
27.5°	10955.5	10075.0	7049.4	4276.4	3643.3	3844.7	4040.9	4192.8	4317.4	4431.7	4452.2
30°	10984.5	9841.2	6209.8	3629.7	3532.4	3771.3	3935.1	4064.8	4182.6	4290.1	4308.8
32.5°	10989.6	9559.6	5319.1	3262.8	3455.6	3694.5	3803.7	3918.0	4044.3	4087.0	4093.8
35°	11022.1	9226.9	4380.5	3075.1	3383.9	3622.8	3709.9	3791.8	3587.0	3602.4	3616.0
37.5°	11115.9	8897.5	3595.5	2969.3	3337.8	3585.3	3689.4	3392.5	3232.0	3194.5	3189.4
40°	11291.7	8546.0	3013.6	2883.9	3320.8	3604.1	3558.0	3167.2	2890.8	2684.3	2653.6
42.5°	11535.7	8167.2	2641.6	2827.6	3332.7	3694.5	3375.4	2950.5	2491.4	2358.3	2341.3
45°	11810.5	7769.5	2440.2	2788.4	3373.7	3764.5	3337.8	2662.1	2305.4	2204.8	2196.2
47.5°	12076.7	7283.2	2336.2	2771.3	3430.0	3708.2	3179.1	2573.4	2216.7	2163.8	2168.9
50°	12382.1	6844.6	2273.0	2752.5	3479.5	3672.3	3000.0	2527.3	2182.6	2247.4	2315.7
52.5°	12639.8	6390.7	2216.7	2715.0	3498.3	3609.2	2953.9	2535.8	2182.6	2307.1	2372.0
55°	12945.3	6047.7	2151.9	2636.5	3462.4	3430.0	2921.5	2587.0	2208.2	2129.7	2136.5
57.5°	13339.5	5935.1	2080.2	2513.6	3343.0	3168.9	2906.1	2636.5	2192.8	2143.3	2160.4
60°	13885.5	6054.5	2051.2	2353.2	3157.0	2964.1	2907.8	2610.9	2085.3	2000.0	2001.7
62.5°	14406.0	6187.6	2049.5	2252.5	2928.3	2781.5	2868.6	2527.3	2030.7	1981.2	2000.0
65°	14576.6	6052.8	1967.6	2139.9	2670.6	2563.1	2796.9	2438.5	1989.7	1914.7	1911.2
67.5°	14348.0	5634.8	1802.0	1957.3	2375.4	2308.8	2703.0	2332.7	1924.9	1863.5	1853.2
70°	13668.8	4701.3	1597.3	1716.7	2039.2	2022.2	2554.6	2209.9	1837.9	1785.0	1740.6
72.5°	11841.2	3349.8	1346.4	1428.3	1660.4	1715.0	2349.8	2049.5	1715.0	1600.7	1532.4
75°	9725.2	2479.5	1105.8	1122.9	1261.1	1409.5	2068.2	1861.8	1569.9	1375.4	1322.5
77.5°	5955.6	1517.0	880.5	887.4	904.4	1124.6	1703.1	1651.9	1385.7	1146.7	1109.2
80°	1928.3	827.6	636.5	668.9	617.7	824.2	1317.4	1406.1	1189.4	959.0	918.1
82.5°	733.8	482.9	430.0	452.2	428.3	552.9	960.7	1126.3	974.4	788.4	641.6
85°	354.9	273.0	254.3	285.0	264.5	283.3	614.3	829.3	738.9	513.6	477.8
87.5°	126.3	121.2	97.3	131.4	112.6	100.7	187.7	418.1	488.0	353.2	315.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)