

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: P318012

Luminaire Tested: **GAN-SA8C-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46521 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

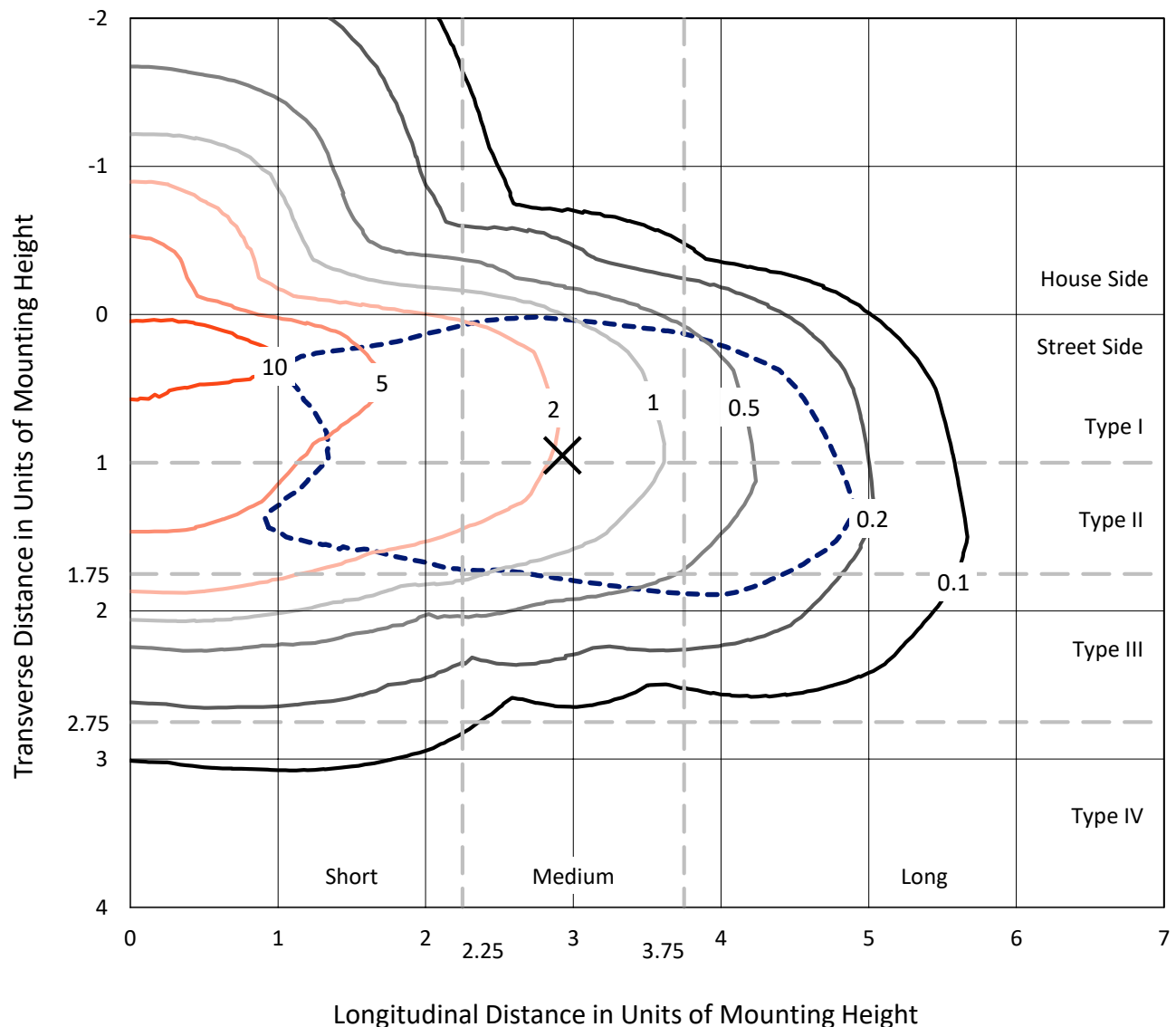
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

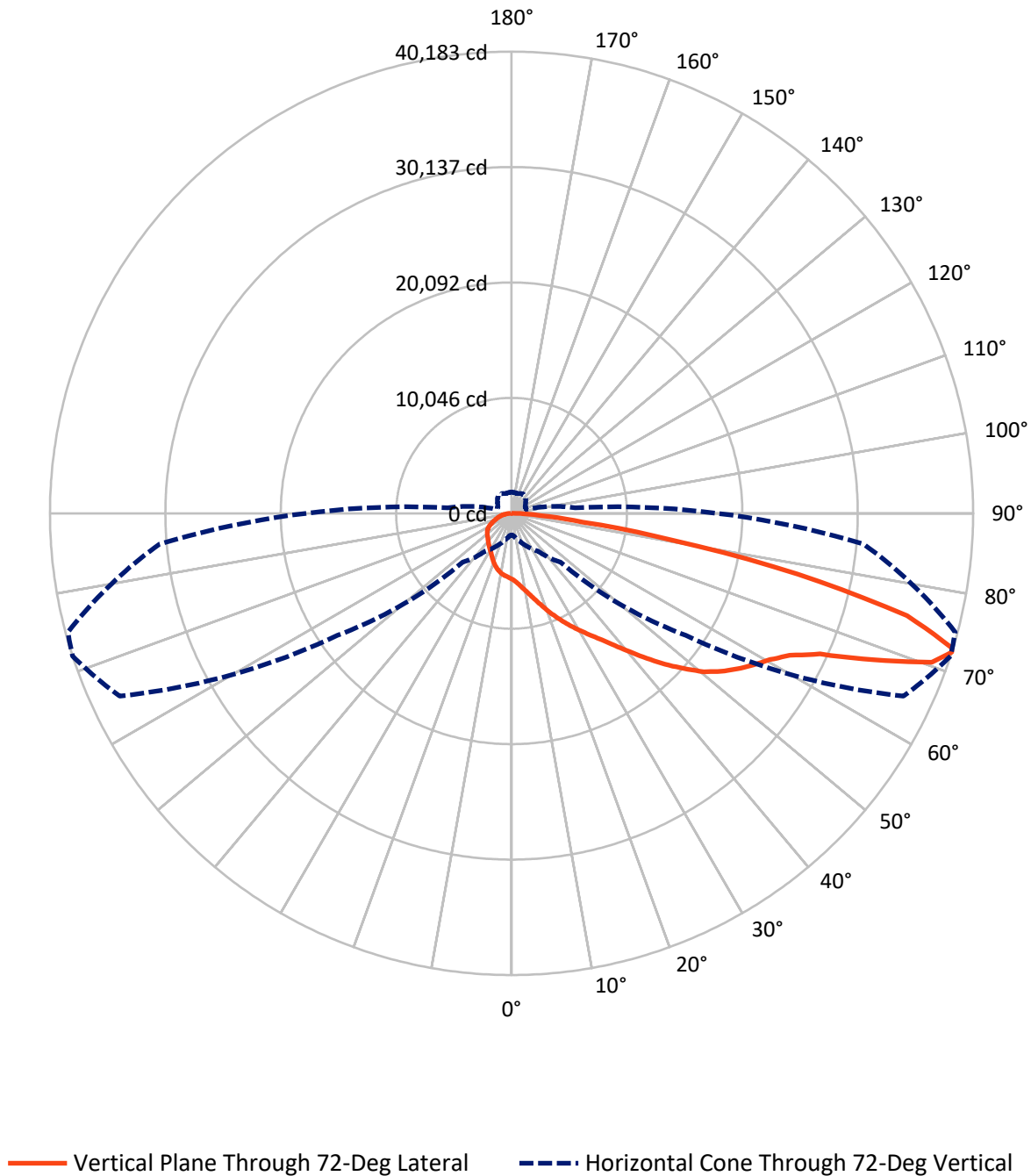
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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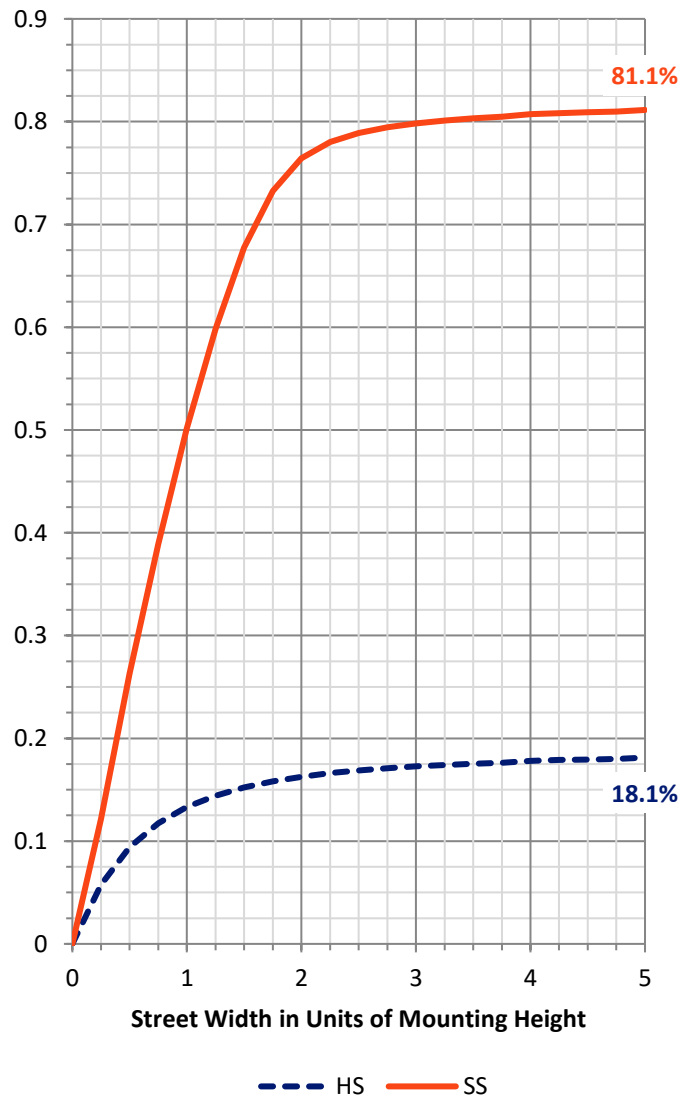
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8630.0	0.0	8630.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	37891.0	0.0	37891.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	46521.0	0.0	46521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.5	1.2
10°-20°	1853.2	4.0
20°-30°	3247.5	7.0
30°-40°	4815.0	10.4
40°-50°	7042.3	15.1
50°-60°	9690.1	20.8
60°-70°	10788.0	23.2
70°-80°	7309.9	15.7
80°-90°	1201.5	2.6
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°	46521.0	100.0
0°-180°	46521.0	100.0

Coefficient of Utilization



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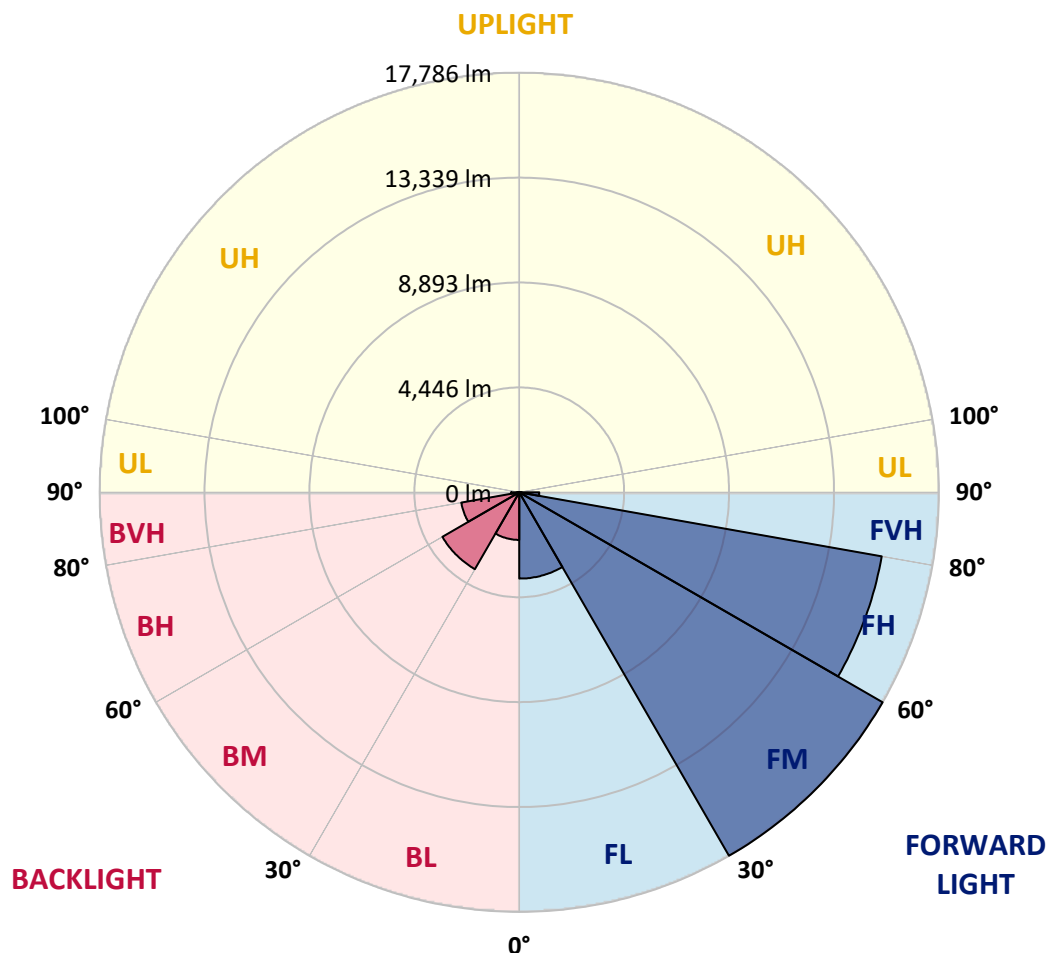
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3656.8	7.9			
FM	(30°-60°)	17785.6	38.2			
FH	(60°-80°)	15601.2	33.5			G5
FVH	(80°-90°)	847.5	1.8			G5
BL	(0°-30°)	2017.4	4.3	B3/2500		
BM	(30°-60°)	3761.9	8.1	B3/5000		
BH	(60°-80°)	2496.8	5.4	B3/2500		G3/2500
BVH	(80°-90°)	354.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5723.3	5723.3	5723.3	5723.3	5723.3	5723.3	5723.3	5723.3	5723.3	5723.3	5723.3
2.5°	6322.4	6312.8	6279.1	6279.1	6215.1	6160.6	6058.1	5989.2	5907.5	5878.7	5782.6
5°	6934.3	6937.5	6895.8	6867.0	6772.5	6657.2	6482.6	6324.0	6165.4	6101.3	5904.3
7.5°	7448.5	7442.0	7430.8	7406.8	7318.7	7200.2	6964.7	6729.2	6495.4	6399.3	6059.7
10°	7778.4	7792.8	7802.5	7813.7	7776.8	7691.9	7469.3	7182.6	6876.6	6745.3	6245.5
12.5°	7945.0	7970.6	8015.5	8092.4	8153.3	8143.6	7981.9	7677.5	7313.9	7148.9	6477.8
15°	8042.7	8076.4	8146.8	8284.6	8456.0	8553.7	8510.5	8234.9	7829.7	7626.3	6761.3
17.5°	8103.6	8130.8	8239.8	8424.0	8678.7	8938.1	9051.9	8821.2	8412.7	8180.5	7086.4
20°	8145.2	8166.1	8302.2	8518.5	8848.4	9261.7	9578.9	9521.2	9055.1	8753.9	7426.0
22.5°	8238.2	8255.8	8385.5	8603.4	8968.6	9502.0	10086.6	10173.1	9732.6	9391.5	7789.6
25°	8497.6	8497.6	8606.6	8758.7	9101.5	9710.2	10515.9	10898.8	10424.6	10027.4	8126.0
27.5°	8992.6	8987.8	9027.8	9080.7	9340.2	9921.7	10898.8	11539.5	11142.2	10708.2	8452.8
30°	9578.9	9610.9	9615.7	9590.1	9711.8	10186.0	11252.8	12215.5	11864.7	11396.9	8787.6
32.5°	10333.3	10354.2	10330.1	10245.2	10227.6	10560.8	11600.4	12923.5	12646.4	12116.2	9093.5
35°	11291.2	11251.2	11175.9	11002.9	10837.9	11062.2	11997.6	13631.5	13524.2	12985.9	9514.8
37.5°	12318.0	12319.6	12226.7	11834.2	11606.8	11702.9	12545.4	14434.0	14586.2	14020.7	10054.6
40°	13141.3	13184.6	13242.2	12726.4	12431.7	12564.7	13242.2	15364.6	15842.0	15247.7	10757.8
42.5°	13716.4	13766.0	13929.4	13605.8	13299.9	13546.6	14062.4	16357.8	17251.6	16663.7	11581.1
45°	14325.1	14352.3	14467.6	14328.3	14132.8	14688.7	14986.6	17386.1	18742.9	18172.6	12502.2
47.5°	14965.8	14994.6	15113.2	15020.2	14917.7	15755.5	15950.9	18355.2	20171.7	19830.5	13485.7
50°	15757.1	15776.3	15888.4	15720.2	15752.3	16559.6	16812.7	19244.2	21669.4	21320.2	14472.4
52.5°	16836.7	16841.5	16996.9	16844.7	16694.1	17149.1	17554.3	20082.0	22843.5	22678.5	15459.1
55°	17682.5	17733.7	18243.1	18211.1	18124.6	17684.1	18174.2	20879.7	23891.1	23969.6	16506.7
57.5°	17142.7	17342.9	18374.5	19101.7	19809.7	19015.2	19012.0	21778.3	24865.0	25236.6	17658.4
60°	15013.8	15286.2	16806.3	18419.3	20634.6	21331.4	20751.6	22875.6	25848.5	26492.5	19101.7
62.5°	10722.6	11171.1	13231.0	15806.7	19503.7	22866.0	24291.6	24616.7	27186.1	27946.9	20977.4
65°	5420.6	5760.1	7486.9	10589.6	15582.5	21863.2	28139.1	28429.1	29510.3	30186.3	23865.5
67.5°	3293.3	3421.5	4264.0	5889.9	9553.2	17030.5	29395.0	34783.5	34008.2	34367.0	27983.8
70°	2426.8	2521.3	3046.7	3911.6	5494.2	9993.7	25541.0	39318.2	38808.9	38768.8	31027.2
72°	1890.1	1959.0	2423.6	3160.4	4017.4	5995.6	18512.2	37644.3	40183.2	39981.4	30748.5
72.5°	1792.4	1853.3	2276.2	2974.6	3796.3	5435.0	16644.5	36515.0	40083.9	39992.6	30388.1
75°	1411.2	1454.5	1685.1	2300.2	2971.4	3083.5	9120.8	28297.7	35558.8	37037.2	27331.8
77.5°	1167.7	1174.1	1295.9	1673.9	2316.2	2180.1	4480.3	19633.5	25462.5	27088.3	19361.2
80°	951.5	959.5	1017.2	1174.1	1752.4	1613.0	2127.2	11289.6	14256.2	14273.8	9207.3
82.5°	757.7	759.3	823.3	858.6	1259.0	1153.3	1219.0	5300.4	6229.5	5992.4	3309.4
85°	533.4	522.2	804.1	704.8	823.3	740.0	672.8	2098.4	2575.7	2463.6	1036.4
87.5°	177.8	184.2	357.2	456.5	480.5	419.7	299.5	804.1	972.3	964.3	328.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5723.3	5723.3	5723.3	5723.3	5723.3	5723.3	5723.3	5723.3	5723.3	5723.3	5723.3
2.5°	5752.1	5700.9	5625.6	5542.3	5476.6	5409.3	5359.7	5334.1	5305.2	5281.2	5310.0
5°	5813.0	5716.9	5556.7	5399.7	5284.4	5181.9	5108.2	5069.8	5034.5	5010.5	5013.7
7.5°	5912.3	5756.9	5487.8	5258.8	5098.6	4988.1	4912.8	4887.1	4864.7	4858.3	4866.3
10°	6018.0	5789.0	5396.5	5092.2	4909.6	4818.3	4784.6	4802.3	4818.3	4832.7	4848.7
12.5°	6138.2	5817.8	5263.6	4896.8	4741.4	4706.1	4739.8	4816.7	4872.7	4906.4	4927.2
15°	6295.1	5843.4	5109.8	4701.3	4597.2	4637.3	4751.0	4883.9	4981.7	5044.1	5053.7
17.5°	6439.3	5841.8	4912.8	4504.3	4480.3	4597.2	4768.6	4956.0	5087.4	5175.5	5193.1
20°	6588.3	5798.6	4683.7	4312.1	4361.8	4554.0	4776.6	5002.5	5161.1	5263.6	5287.6
22.5°	6727.6	5723.3	4432.2	4137.5	4262.4	4496.3	4746.2	4975.2	5133.8	5217.1	5242.8
25°	6822.1	5591.9	4177.5	3990.1	4174.3	4425.8	4646.9	4831.1	4949.6	4991.3	4997.7
27.5°	6870.2	5420.6	3937.3	3862.0	4083.0	4310.5	4462.7	4554.0	4587.6	4584.4	4578.0
30°	6876.6	5194.7	3730.6	3757.9	3977.3	4140.7	4212.8	4195.2	4151.9	4078.2	4084.6
32.5°	6855.8	4940.0	3557.6	3658.6	3842.8	3934.1	3937.3	3852.4	3737.0	3620.1	3588.1
35°	6862.2	4690.1	3405.5	3546.4	3679.4	3719.4	3682.6	3557.6	3400.7	3250.1	3218.1
37.5°	6932.7	4472.3	3274.1	3416.7	3498.4	3508.0	3455.1	3323.8	3208.4	3061.1	3048.3
40°	7100.9	4316.9	3149.2	3270.9	3317.4	3322.2	3246.9	3154.0	3163.6	3085.1	3083.5
42.5°	7403.6	4249.6	3038.6	3118.7	3147.6	3157.2	3099.5	3040.3	3123.5	3072.3	3054.7
45°	7794.4	4265.6	2945.7	2969.8	3022.6	3067.5	3032.2	2960.2	2992.2	2769.5	2695.9
47.5°	8246.2	4368.2	2872.1	2841.6	2932.9	3017.8	2963.4	2854.4	2740.7	2519.7	2478.0
50°	8774.8	4526.7	2804.8	2715.1	2835.2	2950.5	2896.1	2740.7	2569.3	2462.0	2447.6
52.5°	9325.8	4720.6	2737.5	2575.7	2711.9	2899.3	2872.1	2715.1	2503.6	2397.9	2378.7
55°	9950.5	4916.0	2652.6	2413.9	2578.9	2875.3	2860.8	2622.2	2454.0	2394.7	2380.3
57.5°	10727.4	5138.6	2540.5	2245.7	2454.0	2788.8	2743.9	2566.1	2402.7	2357.9	2353.1
60°	11739.7	5467.0	2378.7	2066.3	2301.8	2655.8	2646.2	2484.4	2321.0	2289.0	2282.6
62.5°	13258.2	6010.0	2156.0	1886.9	2132.0	2430.0	2518.1	2373.9	2234.5	2232.9	2236.1
65°	15612.9	6826.9	1914.2	1730.0	1960.6	2239.3	2369.1	2260.2	2146.4	2178.5	2183.3
67.5°	18342.4	7504.5	1677.1	1576.2	1786.0	2058.3	2234.5	2146.4	2029.5	2112.8	2114.4
70°	19250.7	6899.0	1468.9	1424.0	1605.0	1883.7	2088.8	2021.5	1903.0	1986.3	1978.2
72°	17914.7	5569.5	1334.3	1308.7	1468.9	1739.6	1959.0	1904.6	1787.6	1843.7	1822.9
72.5°	17493.5	5310.0	1300.7	1279.9	1432.0	1702.7	1925.4	1875.7	1758.8	1806.9	1787.6
75°	15604.9	4611.6	1118.1	1122.9	1249.4	1523.3	1736.4	1720.4	1600.2	1605.0	1598.6
77.5°	11318.4	3381.4	941.9	973.9	1063.6	1339.1	1545.8	1536.1	1404.8	1380.8	1376.0
80°	5252.4	1725.2	767.3	781.7	874.6	1119.7	1318.3	1305.5	1199.8	1169.3	1151.7
82.5°	1798.8	820.1	576.7	586.3	677.6	901.8	1143.7	1135.7	1047.6	988.3	951.5
85°	642.3	408.5	403.7	394.0	483.7	709.6	996.3	953.1	823.3	701.6	698.4
87.5°	208.2	174.6	208.2	206.6	281.9	480.5	724.0	616.7	597.5	496.6	487.0
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)