

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: P318214

Luminaire Tested: **GAN-SA0C-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318214
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-SA0C-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 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: 50505 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 558
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

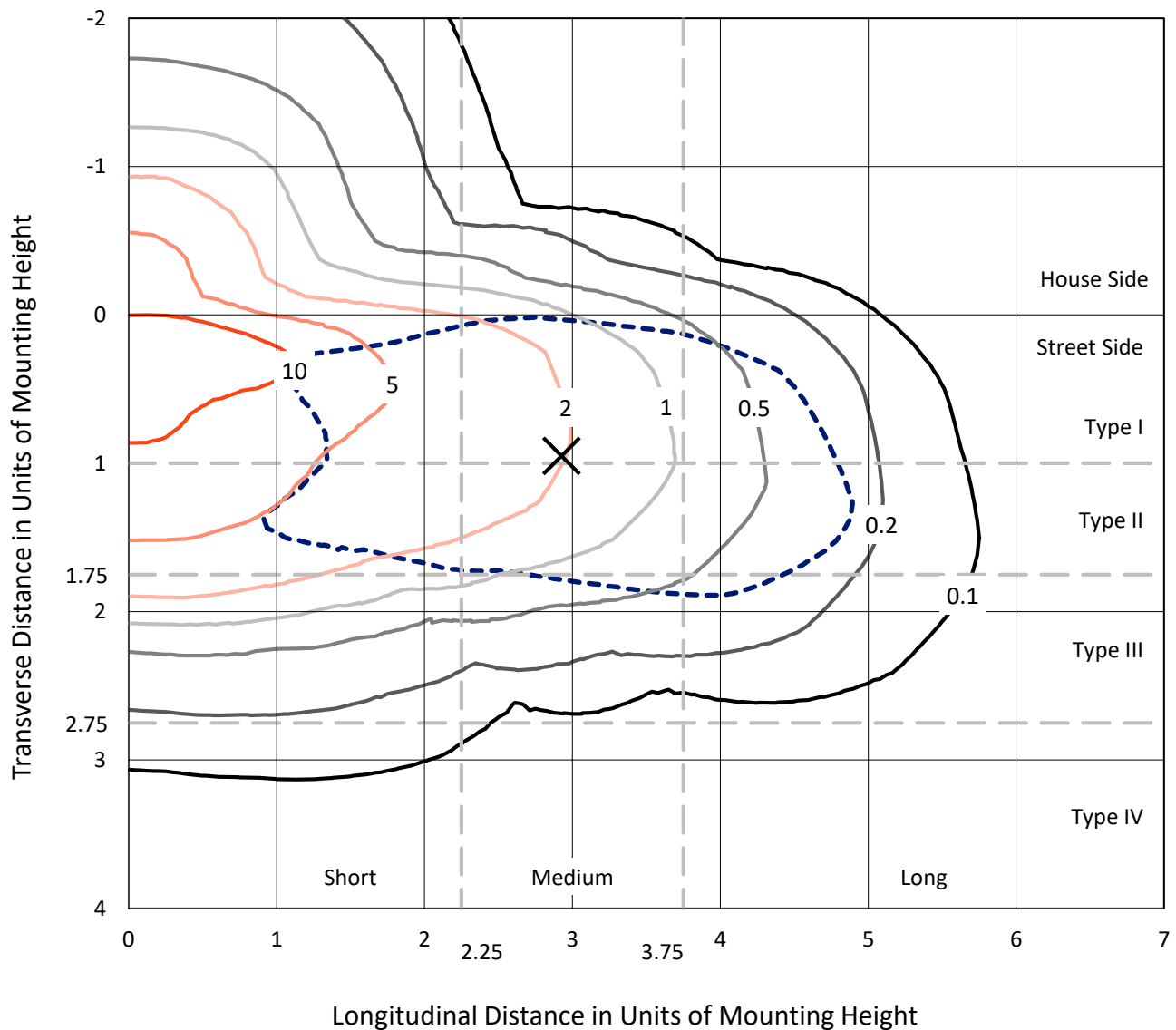


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Iso-Footcandle Lines of Horizontal Illumination

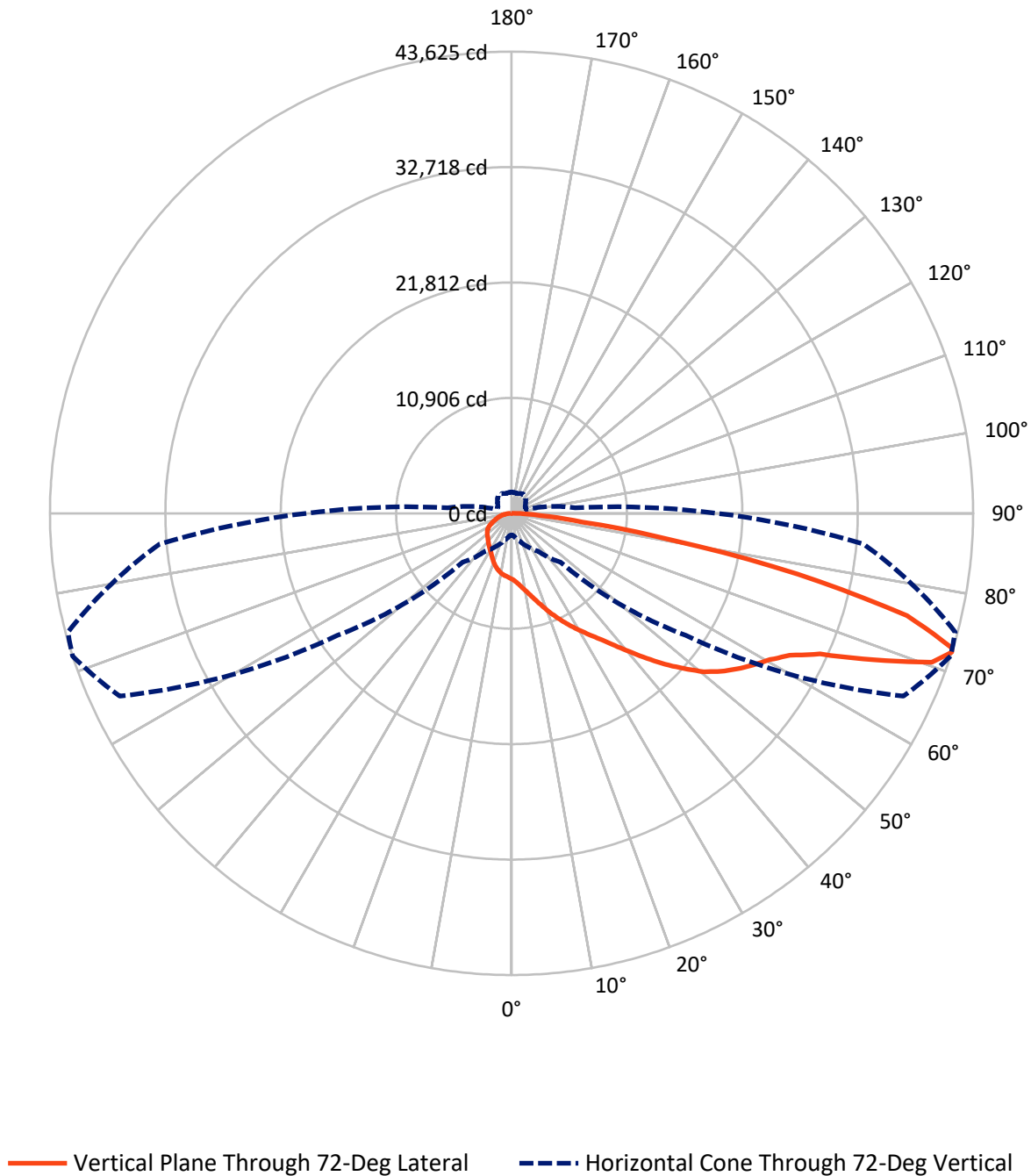
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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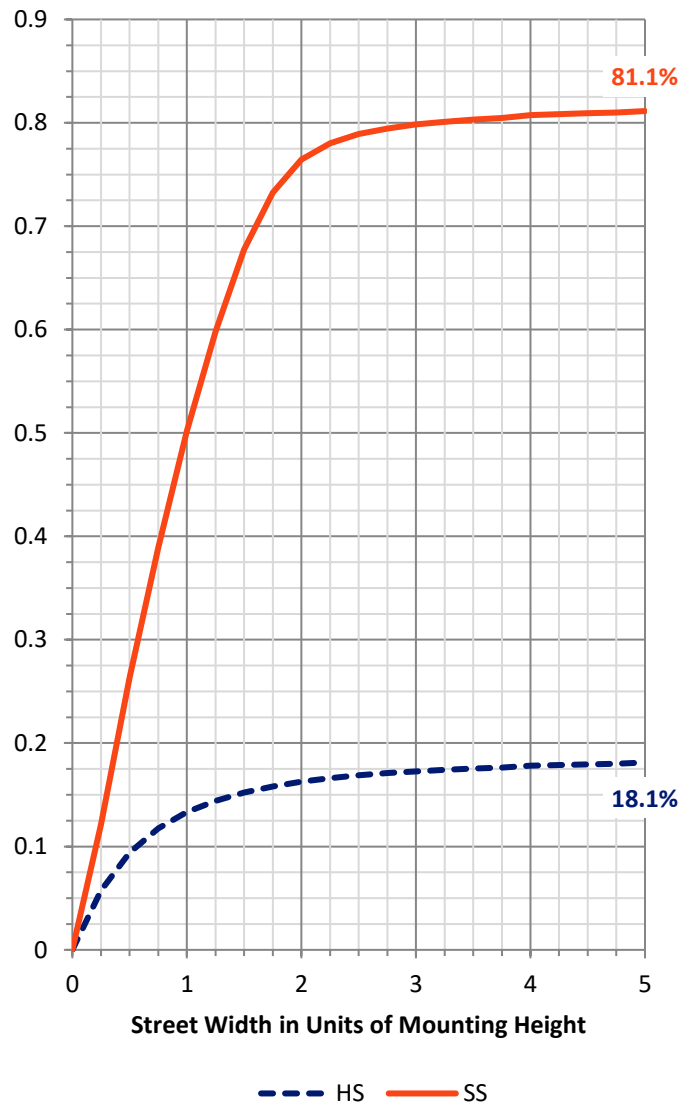
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9369.0	0.0	9369.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	41136.0	0.0	41136.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	50505.0	0.0	50505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.6	1.2
10°-20°	2012.0	4.0
20°-30°	3525.6	7.0
30°-40°	5227.3	10.4
40°-50°	7645.4	15.1
50°-60°	10520.0	20.8
60°-70°	11711.9	23.2
70°-80°	7936.0	15.7
80°-90°	1304.3	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°	50505.0	100.0
0°-180°	50505.0	100.0

Coefficient of Utilization



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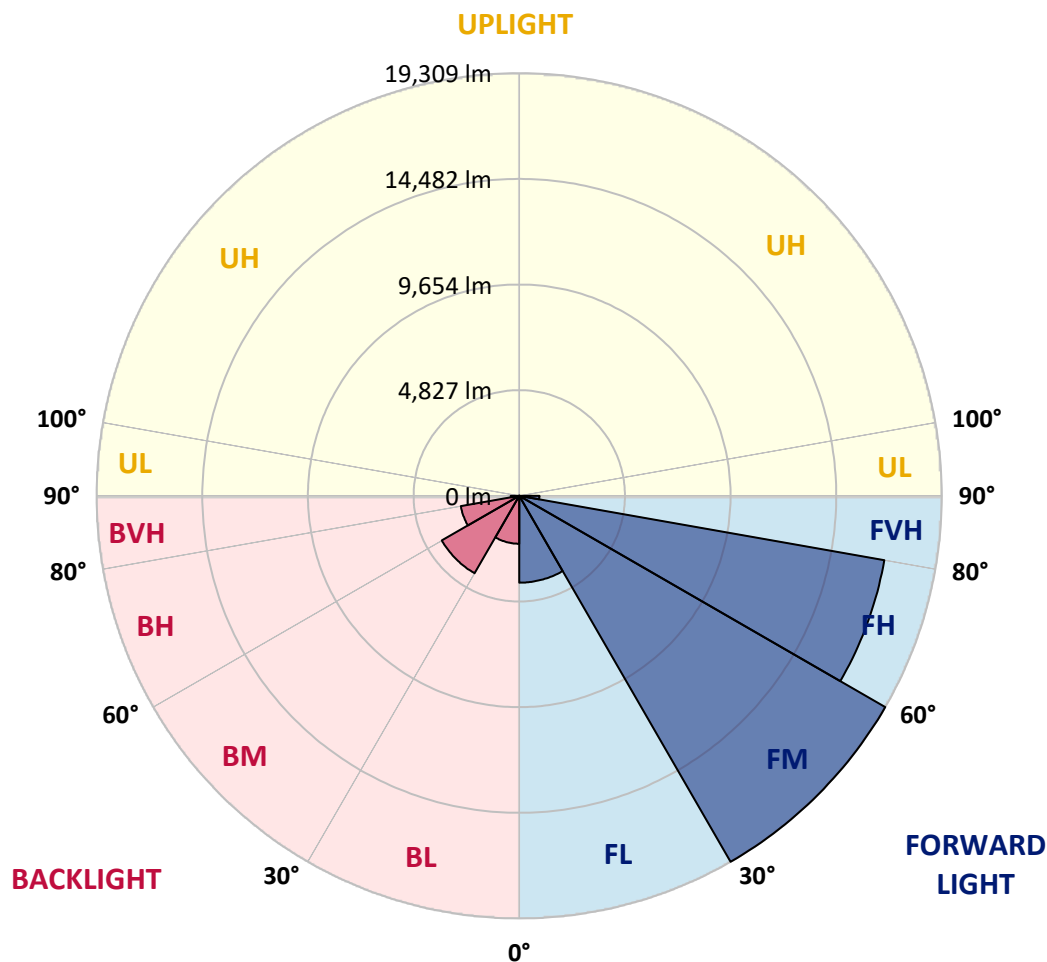
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3970.0	7.9			
FM	(30°-60°)	19308.7	38.2			
FH	(60°-80°)	16937.2	33.5			G5
FVH	(80°-90°)	920.1	1.8			G5
BL	(0°-30°)	2190.1	4.3	B3/2500		
BM	(30°-60°)	4084.0	8.1	B3/5000		
BH	(60°-80°)	2710.6	5.4	B4/5000		G4/5000
BVH	(80°-90°)	384.3	0.8			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6213.4	6213.4	6213.4	6213.4	6213.4	6213.4	6213.4	6213.4	6213.4	6213.4	6213.4
2.5°	6863.8	6853.4	6816.9	6816.9	6747.3	6688.2	6576.9	6502.1	6413.4	6382.1	6277.8
5°	7528.1	7531.6	7486.4	7455.1	7352.5	7227.3	7037.7	6865.6	6693.4	6623.8	6409.9
7.5°	8086.3	8079.4	8067.2	8041.1	7945.5	7816.8	7561.2	7305.5	7051.6	6947.3	6578.6
10°	8444.6	8460.2	8470.6	8482.8	8442.8	8350.7	8108.9	7797.7	7465.5	7322.9	6780.3
12.5°	8625.4	8653.2	8701.9	8785.4	8851.5	8841.1	8665.4	8335.0	7940.3	7761.1	7032.5
15°	8731.5	8768.0	8844.5	8994.1	9180.2	9286.2	9239.3	8940.2	8500.2	8279.4	7340.3
17.5°	8797.6	8827.1	8945.4	9145.4	9421.9	9703.6	9827.1	9576.7	9133.2	8881.1	7693.3
20°	8842.8	8865.4	9013.2	9248.0	9606.2	10054.9	10399.2	10336.6	9830.5	9503.6	8062.0
22.5°	8943.7	8962.8	9103.6	9340.1	9736.6	10315.7	10950.5	11044.4	10566.1	10195.7	8456.7
25°	9225.4	9225.4	9343.6	9508.8	9881.0	10541.8	11416.5	11832.1	11317.4	10886.1	8821.9
27.5°	9762.7	9757.5	9801.0	9858.4	10140.1	10771.3	11832.1	12527.7	12096.5	11625.2	9176.7
30°	10399.2	10434.0	10439.2	10411.4	10543.5	11058.3	12216.4	13261.6	12880.7	12373.0	9540.1
32.5°	11218.3	11240.9	11214.8	11122.6	11103.5	11465.2	12593.8	14030.2	13729.4	13153.8	9872.3
35°	12258.2	12214.7	12133.0	11945.2	11766.0	12009.5	13025.1	14798.9	14682.3	14098.0	10329.6
37.5°	13372.9	13374.6	13273.8	12847.7	12600.8	12705.1	13619.8	15670.1	15835.3	15221.4	10915.7
40°	14266.7	14313.7	14376.3	13816.3	13496.3	13640.7	14376.3	16680.4	17198.7	16553.5	11679.1
42.5°	14891.0	14944.9	15122.3	14771.0	14438.9	14706.7	15266.6	17758.6	18729.0	18090.8	12572.9
45°	15551.8	15581.4	15706.6	15555.3	15343.2	15946.6	16270.0	18875.1	20348.0	19728.9	13572.9
47.5°	16247.4	16278.7	16407.4	16306.6	16195.3	17104.8	17316.9	19927.2	21899.2	21528.8	14640.6
50°	17106.5	17127.4	17249.1	17066.5	17101.3	17977.7	18252.5	20892.3	23525.1	23146.0	15711.8
52.5°	18278.6	18283.8	18452.5	18287.3	18123.8	18617.7	19057.7	21801.8	24799.8	24620.7	16783.1
55°	19196.8	19252.4	19805.4	19770.6	19676.7	19198.5	19730.6	22667.8	25937.1	26022.3	17920.4
57.5°	18610.7	18828.1	19948.0	20737.5	21506.2	20643.6	20640.1	23643.4	26994.4	27397.9	19170.7
60°	16299.6	16595.2	18245.5	19996.7	22401.7	23158.2	22528.7	24834.6	28062.2	28761.3	20737.5
62.5°	11640.8	12127.8	14364.1	17160.4	21174.0	24824.2	26371.9	26724.9	29514.2	30340.3	22773.9
65°	5884.8	6253.4	8128.1	11496.5	16917.0	23735.6	30548.9	30863.7	32037.5	32771.4	25909.3
67.5°	3575.4	3714.5	4629.2	6394.3	10371.4	18489.0	31912.3	37762.3	36920.6	37310.2	30380.3
70°	2634.6	2737.2	3307.6	4246.6	5964.8	10849.6	27728.3	42685.4	42132.4	42088.9	33684.4
72°	2052.0	2126.8	2631.1	3431.0	4361.4	6509.1	20097.6	40868.1	43624.5	43405.3	33381.8
72.5°	1945.9	2012.0	2471.1	3229.3	4121.4	5900.4	18069.9	39642.2	43516.6	43417.5	32990.5
75°	1532.1	1579.0	1829.4	2497.2	3225.8	3347.6	9901.8	30721.1	38604.0	40209.1	29672.5
77.5°	1267.7	1274.7	1406.8	1817.3	2514.6	2366.8	4864.0	21314.9	27643.1	29408.2	21019.2
80°	1033.0	1041.7	1104.3	1274.7	1902.5	1751.2	2309.4	12256.4	15477.1	15496.2	9995.7
82.5°	822.5	824.3	893.8	932.1	1366.9	1252.1	1323.4	5754.3	6763.0	6505.6	3592.8
85°	579.1	566.9	873.0	765.2	893.8	803.4	730.4	2278.1	2796.3	2674.6	1125.1
87.5°	193.0	200.0	387.8	495.6	521.7	455.6	325.2	873.0	1055.6	1046.9	356.5
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°	6213.4	6213.4	6213.4	6213.4	6213.4	6213.4	6213.4	6213.4	6213.4	6213.4	6213.4
2.5°	6244.7	6189.1	6107.4	6016.9	5945.6	5872.6	5818.7	5790.9	5759.6	5733.5	5764.8
5°	6310.8	6206.5	6032.6	5862.2	5736.9	5625.7	5545.7	5503.9	5465.7	5439.6	5443.1
7.5°	6418.6	6250.0	5957.8	5709.1	5535.2	5415.2	5333.5	5305.7	5281.3	5274.4	5283.1
10°	6533.4	6284.7	5858.7	5528.3	5330.0	5230.9	5194.4	5213.5	5230.9	5246.6	5263.9
12.5°	6663.8	6316.0	5714.3	5316.1	5147.4	5109.2	5145.7	5229.2	5290.0	5326.5	5349.2
15°	6834.3	6343.9	5547.4	5104.0	4990.9	5034.4	5157.9	5302.2	5408.3	5476.1	5486.5
17.5°	6990.8	6342.1	5333.5	4890.1	4864.0	4990.9	5177.0	5380.5	5523.1	5618.7	5637.8
20°	7152.5	6295.2	5084.8	4681.4	4735.3	4944.0	5185.7	5430.9	5603.0	5714.3	5740.4
22.5°	7303.8	6213.4	4811.8	4491.8	4627.5	4881.4	5152.6	5401.3	5573.5	5663.9	5691.7
25°	7406.4	6070.8	4535.3	4331.8	4531.8	4804.8	5044.8	5244.8	5373.5	5418.7	5425.7
27.5°	7458.6	5884.8	4274.5	4192.7	4432.7	4679.6	4844.8	4944.0	4980.5	4977.0	4970.1
30°	7465.5	5639.6	4050.1	4079.7	4317.9	4495.3	4573.6	4554.4	4507.5	4427.5	4434.4
32.5°	7442.9	5363.1	3862.3	3971.9	4171.9	4271.0	4274.5	4182.3	4057.1	3930.1	3895.4
35°	7449.9	5091.8	3697.1	3850.1	3994.5	4037.9	3998.0	3862.3	3691.9	3528.4	3493.6
37.5°	7526.4	4855.3	3554.5	3709.3	3798.0	3808.4	3751.0	3608.4	3483.2	3323.2	3309.3
40°	7709.0	4686.6	3418.9	3551.0	3601.5	3606.7	3524.9	3424.1	3434.5	3349.3	3347.6
42.5°	8037.6	4613.6	3298.9	3385.8	3417.1	3427.6	3365.0	3300.6	3391.0	3335.4	3316.3
45°	8462.0	4630.9	3198.0	3224.1	3281.5	3330.2	3291.9	3213.7	3248.4	3006.7	2926.7
47.5°	8952.4	4742.2	3118.0	3085.0	3184.1	3276.3	3217.1	3098.9	2975.4	2735.4	2690.2
50°	9526.2	4914.4	3045.0	2947.6	3078.0	3203.2	3144.1	2975.4	2789.3	2672.8	2657.2
52.5°	10124.4	5124.8	2971.9	2796.3	2944.1	3147.6	3118.0	2947.6	2718.1	2603.3	2582.4
55°	10802.6	5337.0	2879.8	2620.7	2799.8	3121.5	3105.8	2846.7	2664.1	2599.8	2584.1
57.5°	11646.1	5578.7	2758.0	2438.1	2664.1	3027.6	2978.9	2785.9	2608.5	2559.8	2554.6
60°	12745.1	5935.2	2582.4	2243.3	2498.9	2883.3	2872.8	2697.2	2519.8	2485.0	2478.1
62.5°	14393.7	6524.7	2340.7	2048.5	2314.6	2638.1	2733.7	2577.2	2425.9	2424.2	2427.6
65°	16950.0	7411.6	2078.1	1878.1	2128.5	2431.1	2572.0	2453.7	2330.3	2365.0	2370.3
67.5°	19913.2	8147.2	1820.7	1711.2	1939.0	2234.6	2425.9	2330.3	2203.3	2293.7	2295.5
70°	20899.3	7489.9	1594.7	1546.0	1742.5	2045.1	2267.7	2194.6	2065.9	2156.4	2147.7
72°	19448.9	6046.5	1448.6	1420.8	1594.7	1888.5	2126.8	2067.7	1940.7	2001.6	1979.0
72.5°	18991.6	5764.8	1412.1	1389.5	1554.7	1848.6	2090.3	2036.4	1909.4	1961.6	1940.7
75°	16941.3	5006.6	1213.8	1219.0	1356.4	1653.8	1885.1	1867.7	1737.3	1742.5	1735.5
77.5°	12287.7	3671.0	1022.5	1057.3	1154.7	1453.8	1678.1	1667.7	1525.1	1499.0	1493.8
80°	5702.2	1872.9	833.0	848.6	949.5	1215.6	1431.2	1417.3	1302.5	1269.5	1250.3
82.5°	1952.9	890.4	626.0	636.5	735.6	979.1	1241.6	1232.9	1137.3	1073.0	1033.0
85°	697.3	443.4	438.2	427.8	525.2	770.4	1081.7	1034.7	893.8	761.7	758.2
87.5°	226.1	189.6	226.1	224.3	306.1	521.7	786.0	669.5	648.6	539.1	528.7
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)