

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: P318254

Luminaire Tested: **GAN-SA0C-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318254
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-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54594 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

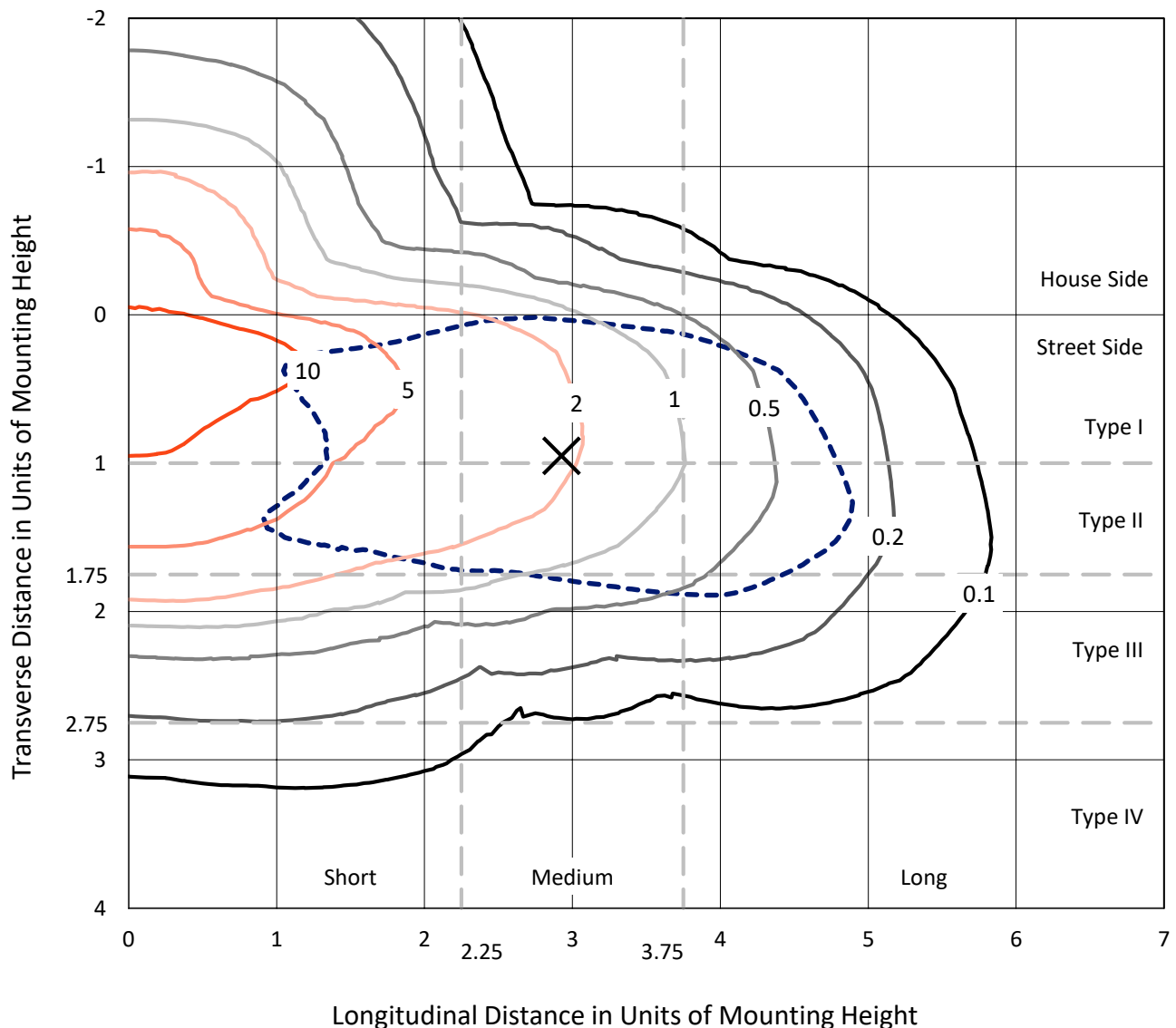
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

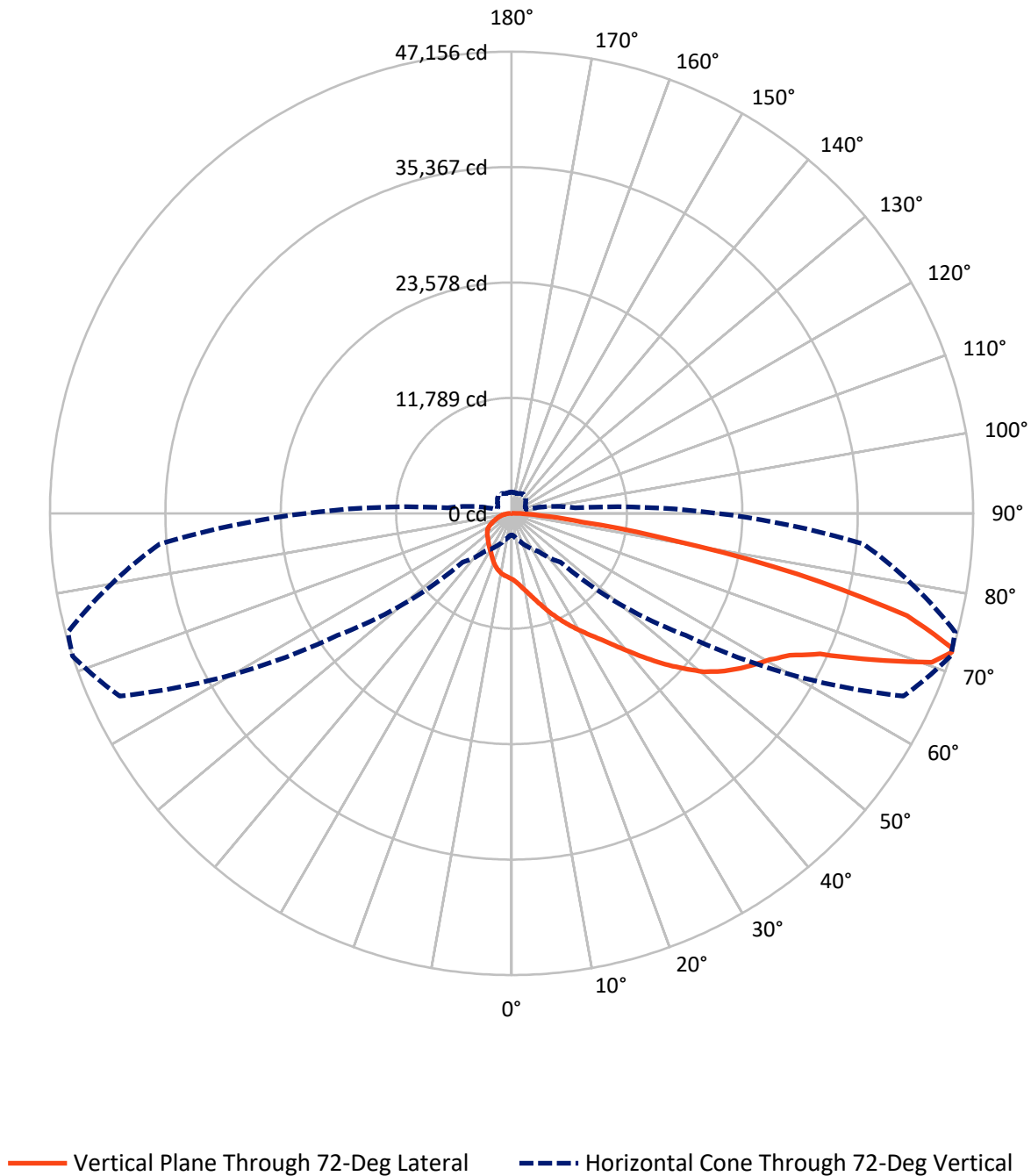
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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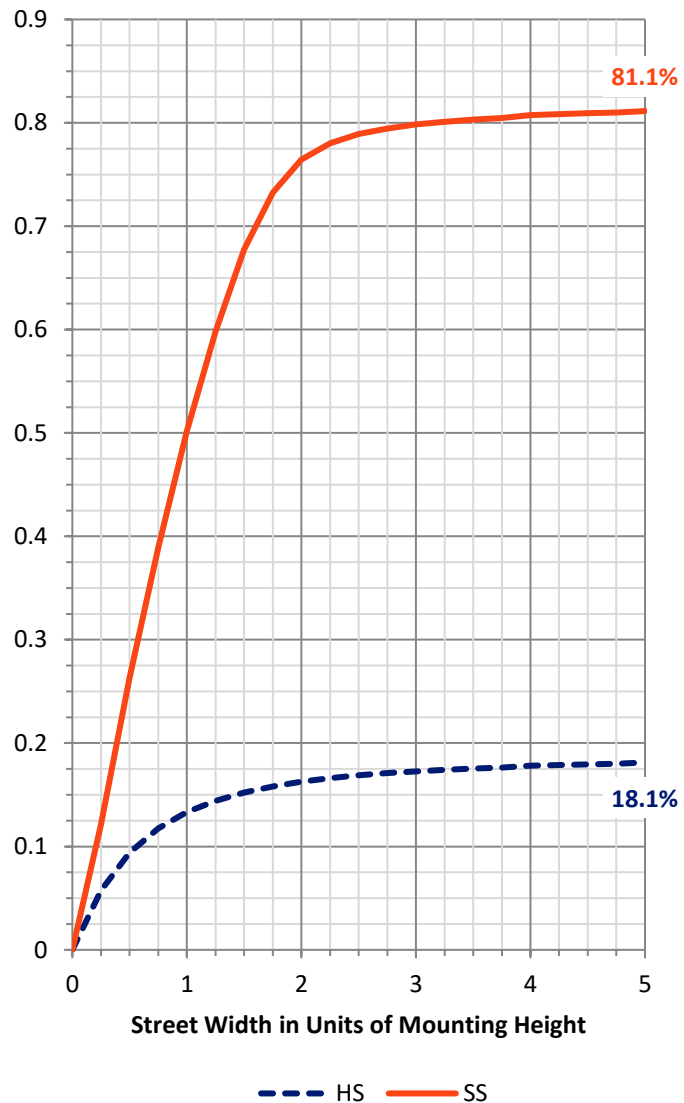
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10127.5	0.0	10127.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	44466.4	0.0	44466.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	54594.0	0.0	54594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.0	1.2
10°-20°	2174.8	4.0
20°-30°	3811.0	7.0
30°-40°	5650.5	10.4
40°-50°	8264.4	15.1
50°-60°	11371.7	20.8
60°-70°	12660.1	23.2
70°-80°	8578.5	15.7
80°-90°	1409.9	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°	54594.0	100.0
0°-180°	54594.0	100.0

Coefficient of Utilization



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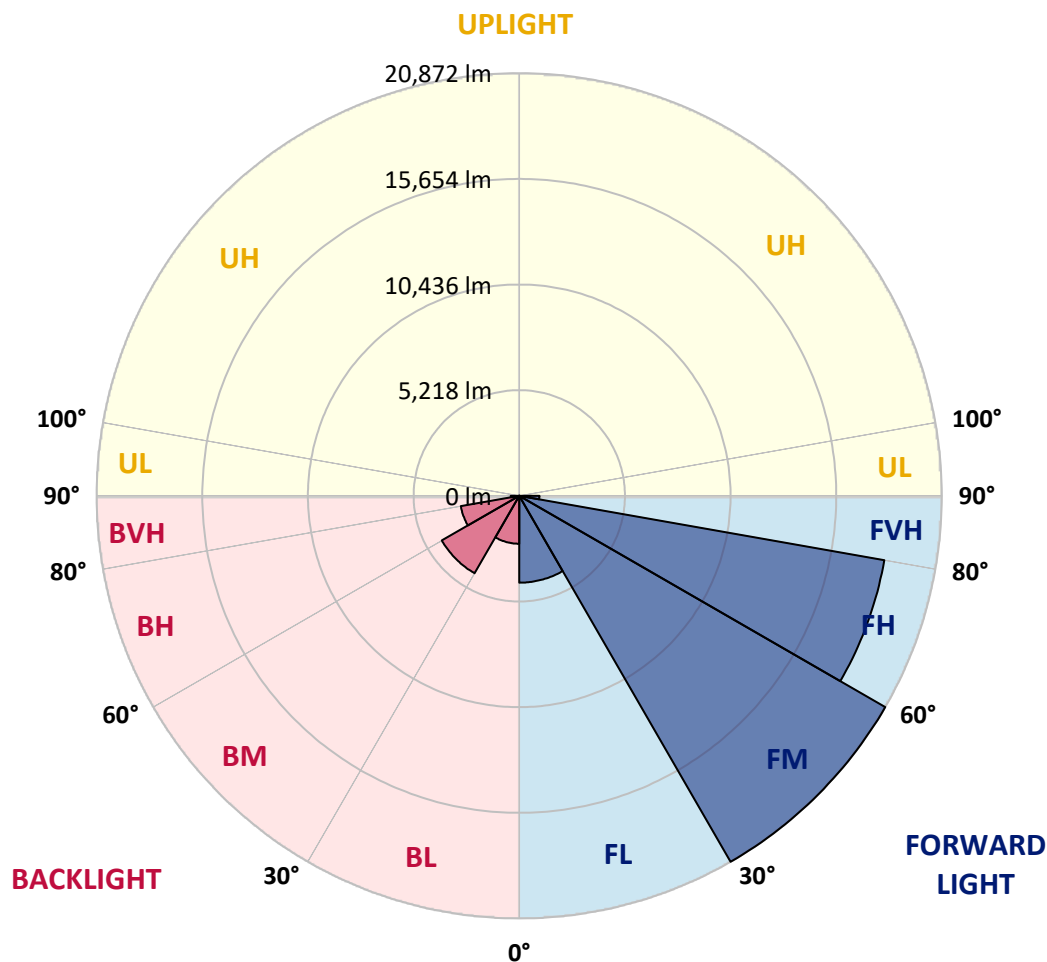
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4291.4	7.9			
FM	(30°-60°)	20872.0	38.2			
FH	(60°-80°)	18308.5	33.5			G5
FVH	(80°-90°)	994.5	1.8			G5
BL	(0°-30°)	2367.5	4.3	B3/2500		
BM	(30°-60°)	4414.7	8.1	B3/5000		
BH	(60°-80°)	2930.0	5.4	B4/5000		G4/5000
BVH	(80°-90°)	415.4	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°	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5
2.5°	7419.5	7408.2	7368.8	7368.8	7293.6	7229.7	7109.4	7028.5	6932.7	6898.8	6786.0
5°	8137.6	8141.4	8092.5	8058.7	7947.7	7812.4	7607.5	7421.4	7235.3	7160.1	6928.9
7.5°	8741.0	8733.5	8720.3	8692.1	8588.8	8449.7	8173.3	7897.0	7622.5	7509.8	7111.2
10°	9128.3	9145.2	9156.5	9169.6	9126.4	9026.7	8765.5	8429.0	8069.9	7915.8	7329.3
12.5°	9323.8	9353.8	9406.5	9496.7	9568.1	9556.8	9367.0	9009.8	8583.1	8389.5	7601.9
15°	9438.4	9477.9	9560.6	9722.3	9923.4	10038.1	9987.3	9664.0	9188.4	8949.7	7934.6
17.5°	9509.9	9541.8	9669.6	9885.8	10184.7	10489.2	10622.7	10352.0	9872.7	9600.1	8316.2
20°	9558.7	9583.2	9742.9	9996.7	10384.0	10868.9	11241.1	11173.5	10626.4	10273.0	8714.7
22.5°	9667.8	9688.4	9840.7	10096.3	10524.9	11150.9	11837.0	11938.5	11421.6	11021.2	9141.4
25°	9972.3	9972.3	10100.1	10278.7	10681.0	11395.3	12340.8	12790.1	12233.7	11767.5	9536.2
27.5°	10553.1	10547.5	10594.5	10656.5	10961.0	11643.4	12790.1	13542.0	13075.8	12566.4	9919.6
30°	11241.1	11278.7	11284.4	11254.3	11397.2	11953.6	13205.5	14335.3	13923.6	13374.7	10312.5
32.5°	12126.5	12151.0	12122.8	12023.1	12002.5	12393.4	13613.4	15166.1	14840.9	14218.7	10671.6
35°	13250.6	13203.6	13115.3	12912.3	12718.7	12981.8	14079.6	15997.0	15871.1	15239.4	11165.9
37.5°	14455.6	14457.5	14348.4	13887.9	13621.0	13733.7	14722.5	16938.8	17117.4	16453.8	11799.4
40°	15421.8	15472.5	15540.2	14934.9	14589.0	14745.1	15540.2	18030.9	18591.1	17893.7	12624.7
42.5°	16096.6	16154.9	16346.6	15966.9	15607.9	15897.4	16502.7	19196.4	20245.3	19555.4	13590.9
45°	16811.0	16842.9	16978.3	16814.7	16585.4	17237.7	17587.3	20403.2	21995.4	21326.2	14671.8
47.5°	17562.9	17596.7	17735.8	17626.8	17506.5	18489.6	18718.9	21540.5	23672.2	23271.8	15825.9
50°	18491.5	18514.0	18645.6	18448.2	18485.8	19433.3	19730.3	22583.8	25429.8	25020.0	16983.9
52.5°	19758.5	19764.1	19946.4	19767.9	19591.2	20125.0	20600.6	23566.9	26807.7	26614.1	18141.8
55°	20751.0	20811.1	21408.9	21371.3	21269.8	20752.9	21328.1	24503.1	28037.1	28129.2	19371.2
57.5°	20117.5	20352.5	21563.1	22416.5	23247.4	22315.0	22311.2	25557.6	29180.0	29616.1	20722.8
60°	17619.3	17938.8	19722.7	21615.7	24215.4	25033.2	24352.7	26845.3	30334.2	31089.8	22416.5
62.5°	12583.3	13109.6	15527.1	18549.8	22888.3	26834.0	28507.0	28888.6	31903.8	32796.7	24617.7
65°	6361.2	6759.7	8786.1	12427.3	18286.6	25657.2	33022.3	33362.5	34631.4	35424.6	28007.0
67.5°	3864.8	4015.2	5004.0	6912.0	11211.1	19985.9	34496.0	40819.6	39909.8	40330.9	32839.9
70°	2847.9	2958.8	3575.4	4590.4	6447.7	11728.0	29973.2	46141.3	45543.5	45496.5	36411.5
72°	2218.2	2299.0	2844.1	3708.8	4714.5	7036.1	21724.7	44176.9	47156.4	46919.5	36084.4
72.5°	2103.5	2174.9	2671.2	3490.8	4455.1	6378.1	19532.9	42851.7	47039.8	46932.7	35661.5
75°	1656.1	1706.8	1977.5	2699.4	3487.0	3618.6	10703.5	33208.4	41729.4	43464.5	32074.8
77.5°	1370.4	1377.9	1520.7	1964.4	2718.2	2558.4	5257.8	23040.6	29881.1	31789.1	22721.0
80°	1116.6	1126.0	1193.7	1377.9	2056.5	1892.9	2496.4	13248.8	16730.1	16750.8	10805.0
82.5°	889.1	891.0	966.2	1007.6	1477.5	1353.4	1430.5	6220.2	7310.5	7032.3	3883.6
85°	626.0	612.8	943.7	827.1	966.2	868.5	789.5	2462.5	3022.7	2891.1	1216.2
87.5°	208.7	216.2	419.2	535.7	563.9	492.5	351.5	943.7	1141.0	1131.6	385.4
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°	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5
2.5°	6750.3	6690.2	6601.8	6504.1	6427.0	6348.0	6289.8	6259.7	6225.9	6197.7	6231.5
5°	6821.8	6709.0	6521.0	6336.8	6201.4	6081.1	5994.6	5949.5	5908.2	5880.0	5883.7
7.5°	6938.3	6756.0	6440.2	6171.3	5983.4	5853.7	5765.3	5735.2	5708.9	5701.4	5710.8
10°	7062.4	6793.6	6333.0	5975.8	5761.6	5654.4	5614.9	5635.6	5654.4	5671.3	5690.1
12.5°	7203.4	6827.4	6177.0	5746.5	5564.2	5522.8	5562.3	5652.5	5718.3	5757.8	5782.2
15°	7387.6	6857.5	5996.5	5517.2	5395.0	5442.0	5575.5	5731.5	5846.1	5919.5	5930.7
17.5°	7556.8	6855.6	5765.3	5286.0	5257.8	5395.0	5596.1	5816.1	5970.2	6073.6	6094.3
20°	7731.6	6804.8	5496.5	5060.4	5118.7	5344.2	5605.5	5870.6	6056.7	6177.0	6205.2
22.5°	7895.1	6716.5	5201.4	4855.5	5002.1	5276.6	5569.8	5838.6	6024.7	6122.5	6152.5
25°	8006.0	6562.3	4902.5	4682.6	4898.7	5193.9	5453.3	5669.4	5808.5	5857.4	5864.9
27.5°	8062.4	6361.2	4620.5	4532.2	4791.6	5058.5	5237.1	5344.2	5383.7	5380.0	5372.4
30°	8069.9	6096.2	4378.0	4410.0	4667.5	4859.3	4943.8	4923.2	4872.4	4785.9	4793.5
32.5°	8045.5	5797.3	4175.0	4293.4	4509.6	4616.8	4620.5	4520.9	4385.5	4248.3	4210.7
35°	8053.0	5504.0	3996.4	4161.9	4317.9	4364.9	4321.6	4175.0	3990.8	3814.1	3776.5
37.5°	8135.7	5248.4	3842.3	4009.6	4105.5	4116.7	4054.7	3900.6	3765.2	3592.3	3577.2
40°	8333.1	5066.0	3695.7	3838.5	3893.0	3898.7	3810.3	3701.3	3712.6	3620.5	3618.6
42.5°	8688.4	4987.1	3566.0	3659.9	3693.8	3705.1	3637.4	3567.8	3665.6	3605.4	3584.8
45°	9147.1	5005.9	3456.9	3485.1	3547.2	3599.8	3558.4	3473.9	3511.4	3250.2	3163.7
47.5°	9677.2	5126.2	3370.5	3334.7	3441.9	3541.5	3477.6	3349.8	3216.3	2956.9	2908.0
50°	10297.5	5312.3	3291.5	3186.2	3327.2	3462.6	3398.7	3216.3	3015.2	2889.2	2872.3
52.5°	10944.1	5539.7	3212.6	3022.7	3182.5	3402.4	3370.5	3186.2	2938.1	2814.0	2791.5
55°	11677.2	5769.1	3112.9	2832.8	3026.5	3374.2	3357.3	3077.2	2879.8	2810.3	2793.4
57.5°	12588.9	6030.4	2981.3	2635.5	2879.8	3272.7	3220.1	3011.4	2819.7	2767.0	2761.4
60°	13777.0	6415.7	2791.5	2424.9	2701.3	3116.7	3105.4	2915.6	2723.8	2686.2	2678.7
62.5°	15559.0	7053.0	2530.2	2214.4	2502.0	2851.6	2955.0	2785.8	2622.3	2620.4	2624.2
65°	18322.3	8011.7	2246.3	2030.2	2300.9	2627.9	2780.2	2652.4	2518.9	2556.5	2562.2
67.5°	21525.5	8806.8	1968.1	1849.7	2096.0	2415.5	2622.3	2518.9	2381.7	2479.4	2481.3
70°	22591.3	8096.3	1723.8	1671.1	1883.5	2210.6	2451.2	2372.3	2233.2	2330.9	2321.5
72°	21023.6	6536.0	1565.9	1535.8	1723.8	2041.5	2299.0	2235.1	2097.8	2163.6	2139.2
72.5°	20529.2	6231.5	1526.4	1502.0	1680.5	1998.2	2259.5	2201.2	2064.0	2120.4	2097.8
75°	18312.9	5411.9	1312.1	1317.7	1466.2	1787.7	2037.7	2018.9	1877.9	1883.5	1876.0
77.5°	13282.6	3968.2	1105.3	1142.9	1248.2	1571.5	1814.0	1802.7	1648.6	1620.4	1614.7
80°	6163.8	2024.5	900.4	917.3	1026.4	1314.0	1547.1	1532.0	1408.0	1372.2	1351.6
82.5°	2111.0	962.5	676.7	688.0	795.2	1058.3	1342.2	1332.8	1229.4	1159.8	1116.6
85°	753.8	479.3	473.7	462.4	567.7	832.7	1169.2	1118.5	966.2	823.3	819.6
87.5°	244.4	204.9	244.4	242.5	330.8	563.9	849.7	723.7	701.2	582.7	571.5
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)