

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: P319777

Luminaire Tested: **GAN-SA3D-760-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-760-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23689 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 191
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

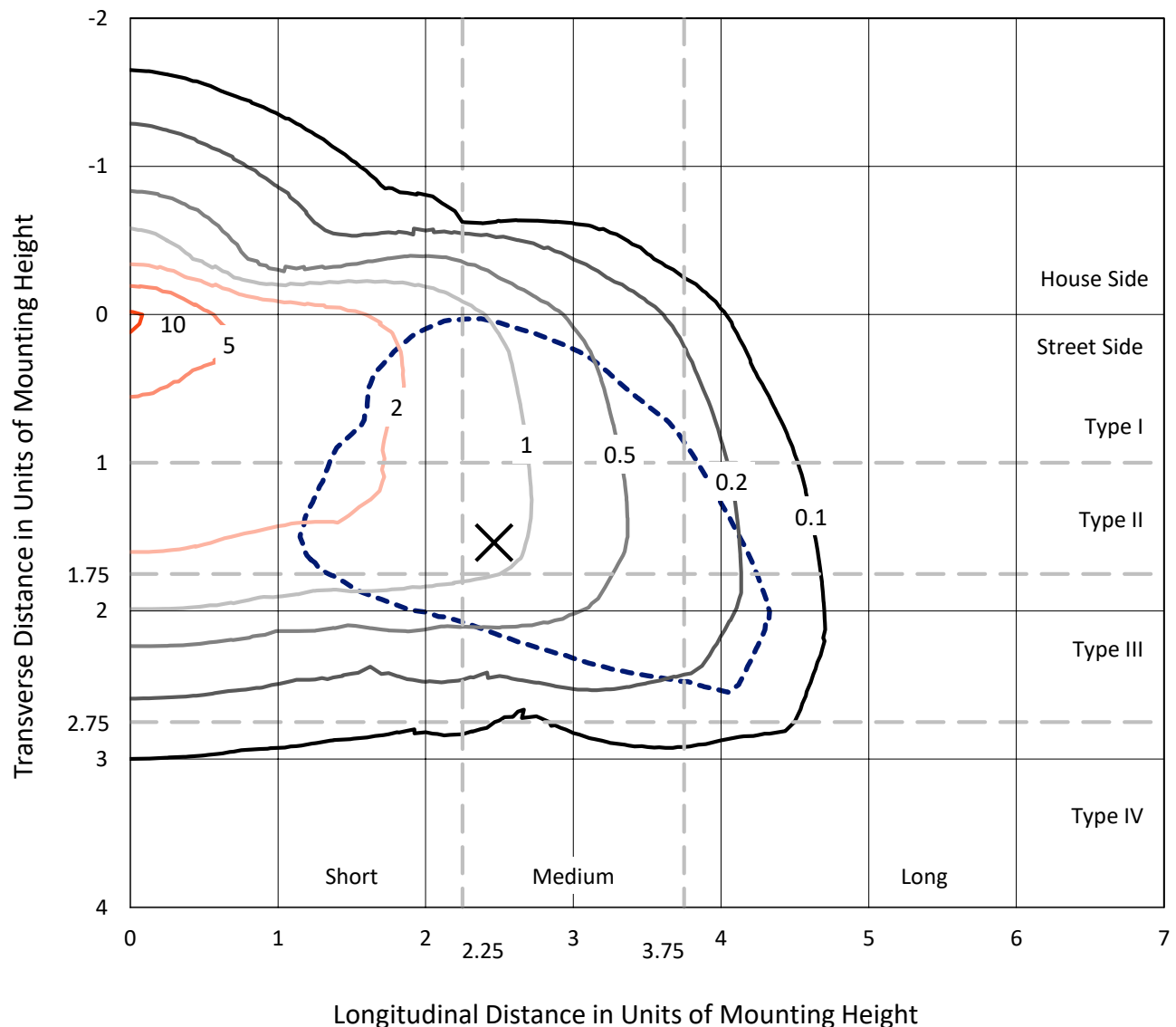


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Iso-Footcandle Lines of Horizontal Illumination

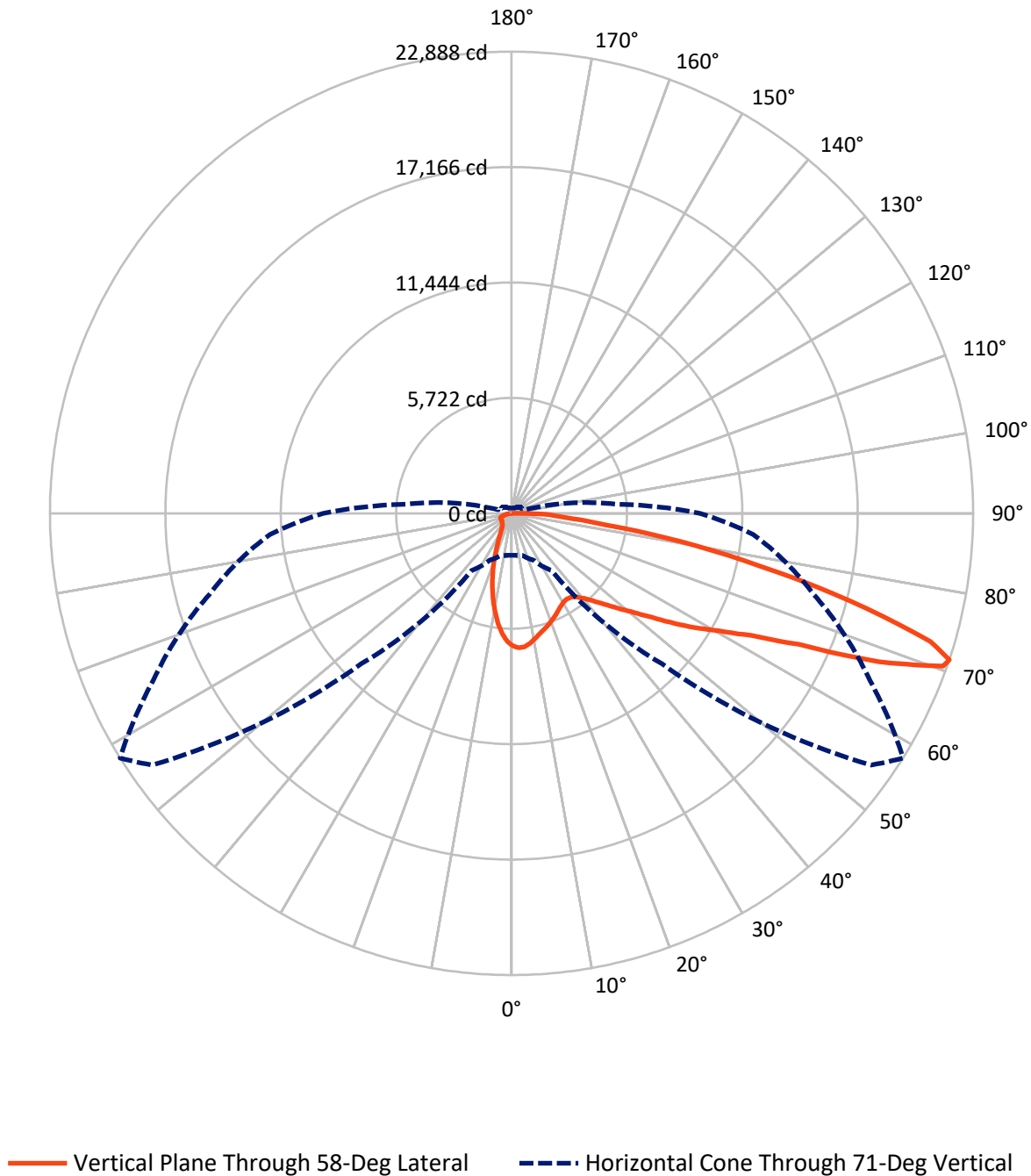
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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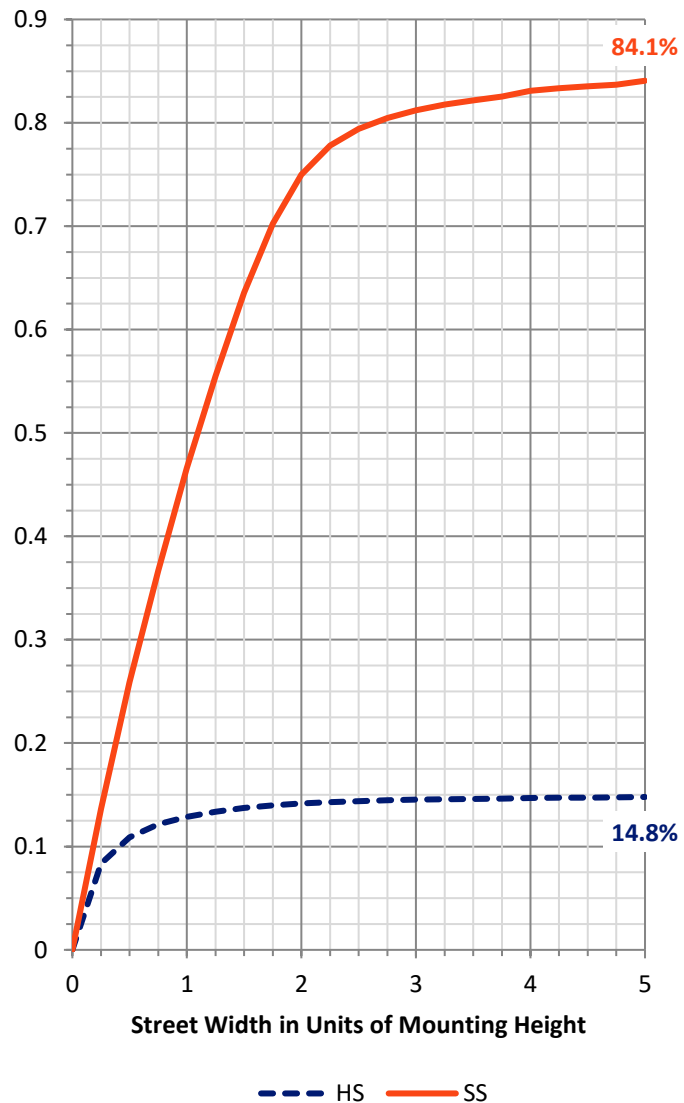
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3541.7	0.0	3541.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	20147.3	0.0	20147.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	23689.0	0.0	23689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.2	2.4
10°-20°	1259.1	5.3
20°-30°	1600.2	6.8
30°-40°	2038.3	8.6
40°-50°	2890.4	12.2
50°-60°	4473.0	18.9
60°-70°	6089.4	25.7
70°-80°	4062.3	17.1
80°-90°	710.2	3.0
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°	23689.0	100.0
0°-180°	23689.0	100.0

Coefficient of Utilization



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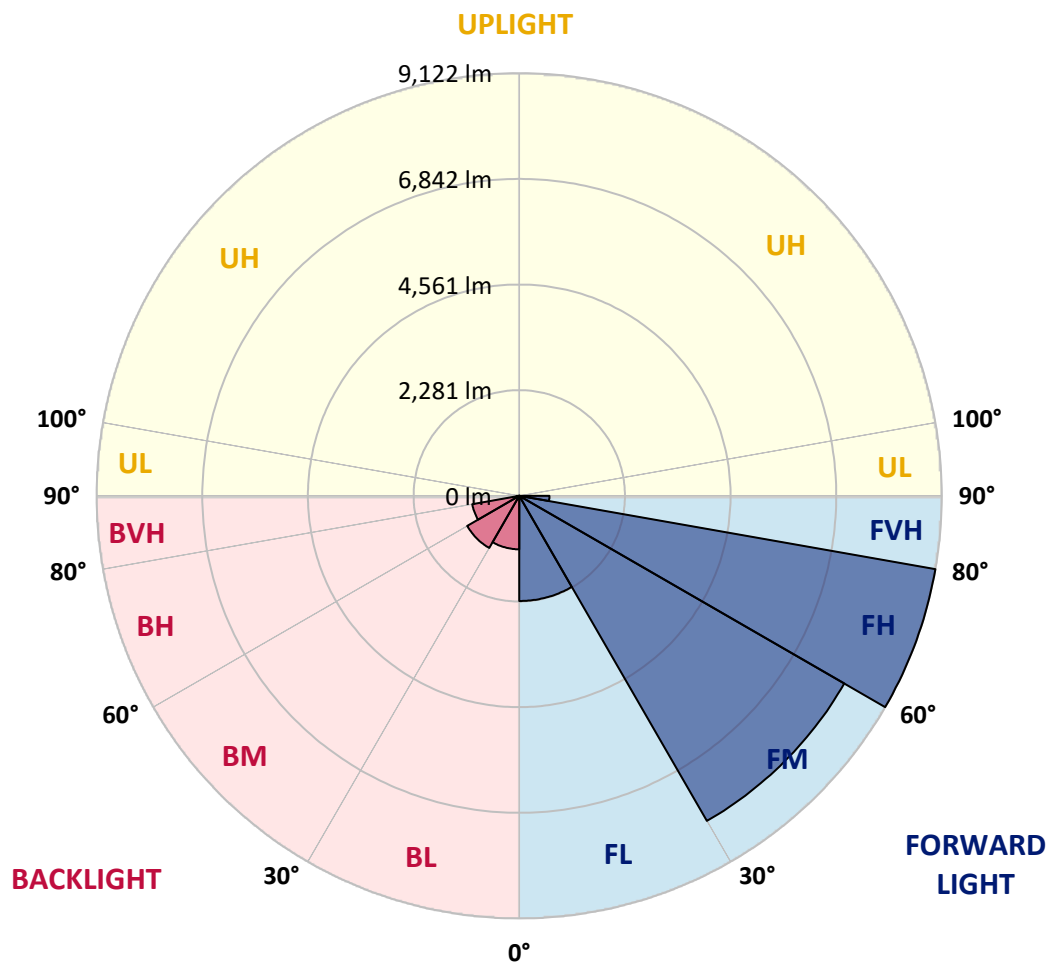
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2271.0	9.6			
FM	(30°-60°)	8102.8	34.2			
FH	(60°-80°)	9122.3	38.5			G4/12000
FVH	(80°-90°)	651.2	2.7			G4/750
BL	(0°-30°)	1154.5	4.9	B3/2500		
BM	(30°-60°)	1298.8	5.5	B2/2500		
BH	(60°-80°)	1029.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	59.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6563.4	6563.4	6563.4	6563.4	6563.4	6563.4	6563.4	6563.4	6563.4	6563.4	6563.4
2.5°	6737.5	6728.5	6731.8	6725.2	6709.5	6693.8	6670.7	6674.8	6642.7	6594.8	6535.4
5°	6610.5	6607.2	6631.9	6646.0	6657.5	6648.4	6641.8	6650.1	6603.0	6537.0	6433.9
7.5°	6343.9	6307.6	6339.0	6386.0	6430.6	6464.4	6509.0	6514.8	6485.0	6415.7	6280.4
10°	5965.2	5930.5	5976.7	6050.2	6139.3	6220.2	6310.1	6326.6	6332.4	6269.7	6105.5
12.5°	5572.4	5546.0	5592.2	5695.4	5843.1	5967.7	6111.2	6136.0	6187.2	6145.1	5943.7
15°	5220.9	5211.0	5267.1	5368.6	5538.6	5729.2	5936.3	5981.7	6068.3	6054.3	5817.5
17.5°	4917.2	4914.7	4957.6	5064.1	5252.2	5493.2	5762.2	5838.9	5967.7	5984.2	5713.5
20°	4691.1	4686.2	4715.9	4794.3	4988.2	5261.3	5574.1	5679.7	5865.3	5923.1	5606.2
22.5°	4569.8	4569.0	4569.8	4606.9	4765.4	5019.5	5390.9	5519.6	5765.5	5874.4	5487.4
25°	4549.2	4546.7	4528.6	4524.4	4614.4	4817.4	5209.3	5351.3	5670.6	5840.6	5374.4
27.5°	4602.8	4606.1	4582.2	4543.4	4561.6	4684.5	5051.7	5203.5	5594.7	5834.0	5296.0
30°	4714.2	4712.6	4691.9	4651.5	4616.0	4635.0	4939.5	5091.3	5543.5	5862.9	5242.3
32.5°	4837.2	4846.2	4842.1	4819.8	4767.0	4691.1	4905.7	5054.2	5528.7	5932.2	5219.2
35°	4984.9	4994.8	5024.5	5041.8	4979.9	4857.8	4978.3	5107.0	5571.6	6062.6	5256.4
37.5°	5125.2	5150.7	5234.1	5307.5	5254.7	5118.6	5171.4	5263.0	5704.4	6268.0	5356.2
40°	5286.9	5309.2	5445.3	5601.3	5593.0	5451.9	5482.5	5543.5	5938.8	6562.6	5536.9
42.5°	5446.2	5490.7	5687.9	5909.1	5972.6	5848.0	5896.7	5928.9	6268.8	6952.9	5852.1
45°	5658.2	5706.1	5980.0	6246.6	6395.1	6325.0	6402.5	6414.9	6683.9	7484.3	6310.1
47.5°	5979.2	6033.7	6353.0	6632.8	6859.7	6867.1	6995.0	6990.1	7202.1	8092.5	6886.9
50°	6479.3	6557.7	6819.2	7080.8	7356.4	7509.9	7680.7	7656.8	7823.5	8740.2	7551.2
52.5°	7134.5	7170.8	7364.7	7557.8	7900.2	8244.3	8489.4	8467.9	8528.2	9406.2	8305.4
55°	7813.6	7840.8	7920.8	8026.5	8486.9	9048.0	9566.2	9532.4	9379.8	10097.7	9050.5
57.5°	8424.2	8479.5	8534.8	8578.5	9077.7	9888.1	10667.9	10670.3	10304.0	10843.6	9820.4
60°	8519.1	8567.8	8933.3	9278.3	10088.6	11008.7	11847.0	11822.3	11260.3	11653.1	10678.6
62.5°	7530.5	7640.3	8250.9	9168.5	11062.3	13058.4	13351.3	13320.8	12404.0	12650.7	11677.9
65°	5396.6	5521.2	6258.1	7637.0	10590.3	15316.9	16066.1	15655.2	13963.6	13877.8	12848.0
67.5°	3113.4	3143.1	3462.4	4569.8	8063.6	15434.9	20207.7	19632.5	16385.5	15269.9	13420.6
70°	2302.2	2301.4	2377.3	2812.2	4363.5	12597.1	22177.4	22693.1	18935.3	15727.8	12611.1
71°	2081.9	2084.4	2169.4	2559.7	3455.8	10544.1	21759.0	22887.9	19607.0	15501.7	12025.3
72.5°	1780.7	1789.0	1907.0	2295.6	2907.1	7271.4	19956.8	21719.4	19925.5	14943.9	11108.5
75°	1350.8	1369.8	1533.2	1935.0	2657.1	3687.7	14646.8	17343.5	17700.8	13186.3	8254.2
77.5°	963.8	985.3	1170.1	1627.2	2525.9	2779.2	9808.8	12650.7	13026.2	8450.6	3723.2
80°	609.0	634.6	774.0	1294.7	2373.2	2638.9	6164.1	8503.4	7103.1	2704.1	947.3
82.5°	357.3	377.1	480.3	845.8	1938.3	2541.5	3626.6	4713.4	2764.3	816.9	430.7
85°	207.1	216.2	299.5	538.8	1407.7	2398.8	2664.5	2634.8	1199.8	399.4	203.8
87.5°	96.5	107.3	177.4	281.4	781.4	1738.6	2105.8	1819.5	746.0	187.3	95.7
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°	6563.4	6563.4	6563.4	6563.4	6563.4	6563.4	6563.4	6563.4	6563.4	6563.4	6563.4
2.5°	6506.5	6492.5	6433.9	6381.9	6327.4	6256.5	6178.1	6168.2	6120.3	6129.4	6112.9
5°	6377.8	6342.3	6201.2	6073.3	5922.3	5786.9	5640.1	5572.4	5475.0	5468.4	5443.7
7.5°	6193.8	6127.7	5909.1	5666.5	5423.9	5192.8	4964.2	4814.1	4660.6	4595.4	4589.6
10°	5986.6	5874.4	5552.6	5193.6	4843.8	4506.3	4179.5	3937.7	3719.9	3616.7	3612.6
12.5°	5790.2	5624.4	5182.9	4694.4	4215.8	3778.5	3330.4	3012.7	2739.6	2648.0	2609.2
15°	5623.6	5390.0	4823.1	4198.5	3617.6	3010.2	2500.3	2166.1	1913.6	1826.1	1809.6
17.5°	5461.8	5161.5	4454.3	3697.6	2995.4	2327.8	1817.0	1568.7	1434.2	1398.7	1397.8
20°	5300.9	4926.3	4068.9	3185.2	2393.8	1741.1	1397.0	1285.6	1240.2	1236.1	1229.5
22.5°	5118.6	4677.1	3663.8	2671.1	1868.2	1369.0	1187.4	1142.9	1137.1	1151.9	1151.9
25°	4947.7	4429.5	3252.8	2167.7	1453.1	1142.0	1060.3	1051.3	1067.0	1093.4	1095.8
27.5°	4788.5	4191.1	2851.8	1720.5	1164.3	1005.9	972.1	982.8	1010.8	1041.4	1042.2
30°	4657.3	3965.8	2462.3	1355.8	983.6	904.4	898.6	920.1	950.6	974.5	980.3
32.5°	4555.8	3773.5	2086.0	1090.1	865.6	828.5	833.4	851.6	870.6	883.8	892.8
35°	4508.8	3608.5	1738.6	919.2	790.5	769.9	776.5	786.4	794.6	804.5	812.0
37.5°	4517.0	3480.6	1428.4	812.8	740.2	729.5	729.5	729.5	729.5	734.4	735.2
40°	4593.7	3407.1	1175.9	745.1	706.3	694.8	685.7	677.5	670.9	674.2	672.5
42.5°	4790.1	3400.5	991.0	702.2	679.1	660.1	642.0	630.4	622.2	625.5	627.1
45°	5123.5	3483.1	866.4	671.7	653.5	624.7	601.6	589.2	583.4	594.1	595.8
47.5°	5555.1	3662.9	790.5	649.4	629.6	591.6	566.9	555.3	557.0	572.7	576.8
50°	6111.2	3955.1	754.2	635.4	613.1	563.6	538.0	528.1	533.1	555.3	560.3
52.5°	6721.9	4375.9	758.3	631.3	602.4	543.0	515.7	504.2	512.4	533.1	537.2
55°	7426.6	4881.7	826.8	637.0	586.7	529.8	497.6	477.8	484.4	503.4	506.7
57.5°	8209.7	5461.0	964.6	635.4	566.9	517.4	478.6	448.9	453.8	465.4	468.7
60°	9024.9	6160.8	1178.3	640.3	557.8	502.5	453.0	415.9	414.2	424.1	425.8
62.5°	10003.6	6970.2	1422.6	643.6	563.6	483.6	419.2	382.9	377.9	380.4	382.1
65°	11012.0	7556.1	1331.0	630.4	581.7	467.9	389.5	350.7	341.6	340.0	340.8
67.5°	11043.3	6928.2	933.3	604.0	589.2	459.6	367.2	323.5	308.6	302.8	302.0
70°	9903.7	5628.5	727.0	576.0	559.5	446.4	346.6	301.2	278.9	269.8	269.0
71°	9347.6	5181.3	689.0	561.9	537.2	433.2	337.5	291.3	268.2	258.3	256.6
72.5°	8475.4	4644.9	642.8	539.7	494.3	399.4	320.2	277.3	253.3	241.8	239.3
75°	6082.4	3037.5	552.0	481.1	409.3	318.5	280.6	249.2	228.6	214.5	212.9
77.5°	2343.5	1208.9	417.5	400.2	313.6	249.2	231.0	215.4	200.5	186.5	185.7
80°	724.5	540.5	304.5	301.2	226.9	185.7	179.9	175.8	170.0	155.1	151.8
82.5°	387.0	310.3	209.6	194.7	148.5	123.8	130.4	132.0	132.9	117.2	115.5
85°	184.8	164.2	118.0	110.6	86.6	69.3	80.0	86.6	87.5	71.8	66.8
87.5°	88.3	85.8	55.3	42.1	32.2	23.1	28.1	34.7	38.0	27.2	23.9
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)