

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: P323298

Luminaire Tested: **GAN-SA4D-760-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-760-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25924 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

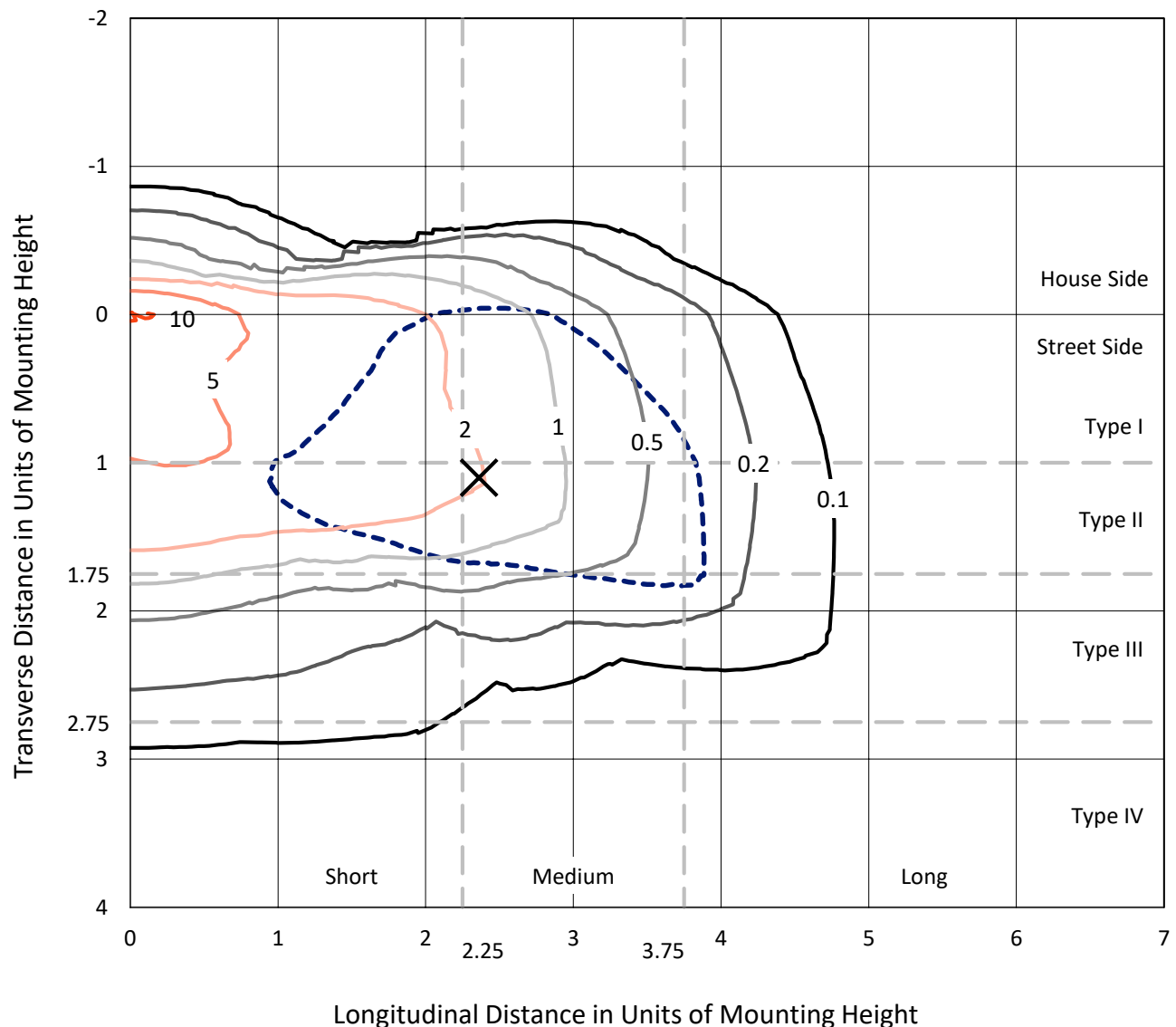
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

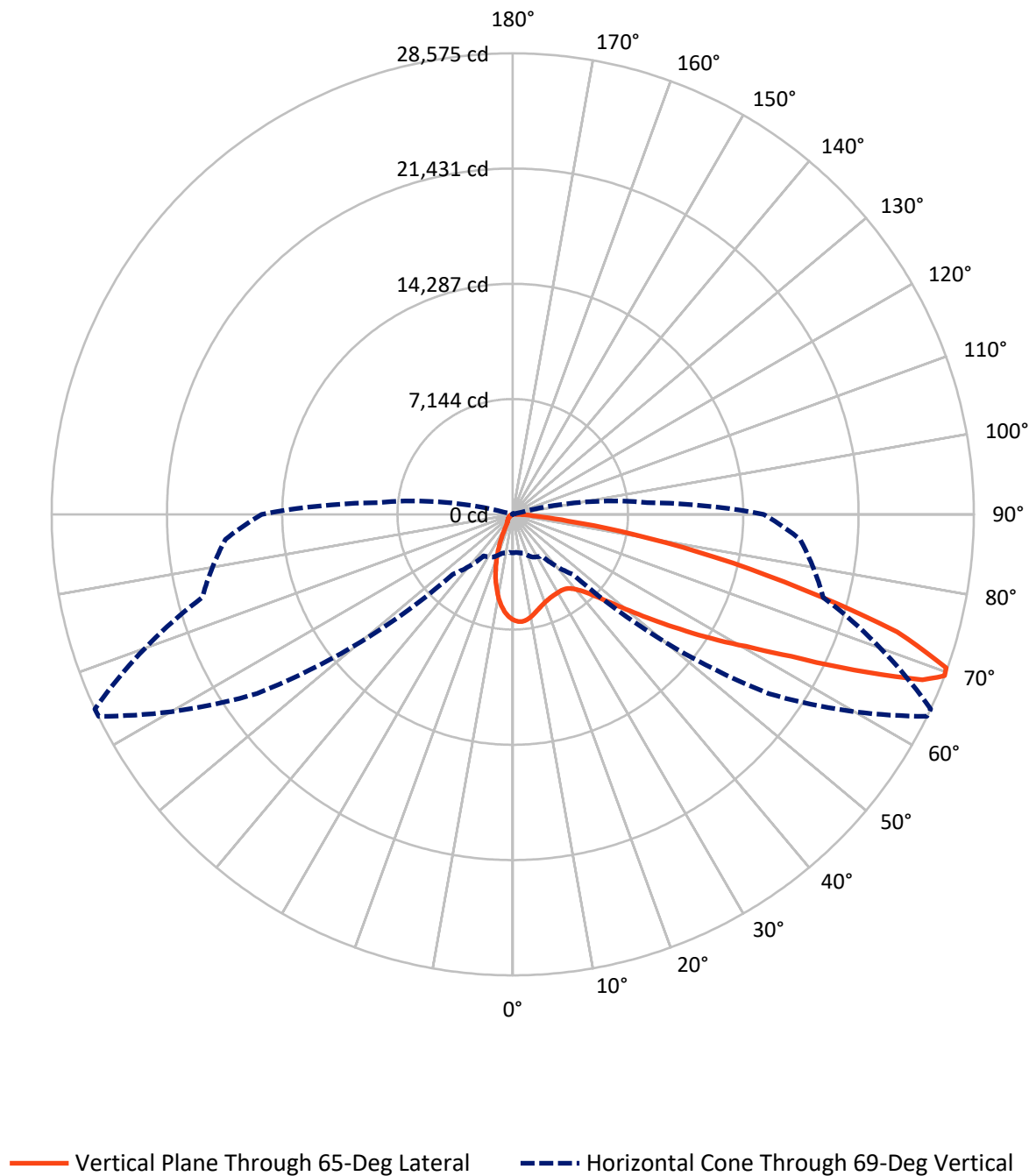
✕ Max cd
 - - - 1/2 Max cd



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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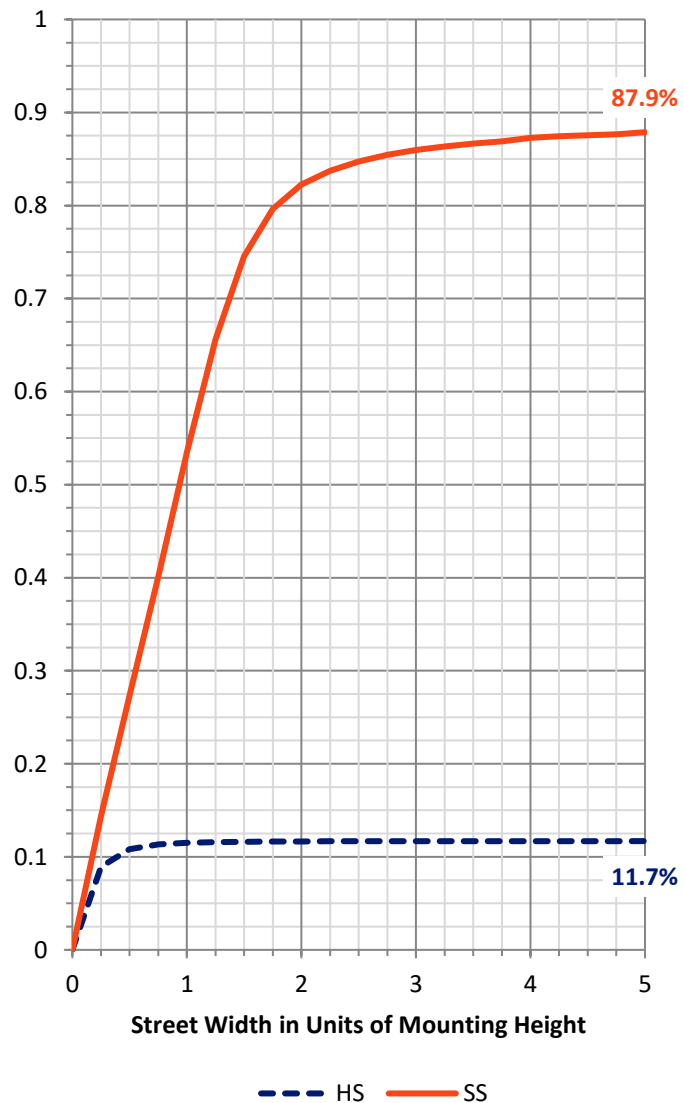
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3055.8	0.0	3055.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	22868.2	0.0	22868.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	25924.0	0.0	25924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.8	2.1
10°-20°	1199.2	4.6
20°-30°	1660.9	6.4
30°-40°	2315.8	8.9
40°-50°	3599.5	13.9
50°-60°	5778.6	22.3
60°-70°	6536.6	25.2
70°-80°	3839.0	14.8
80°-90°	446.6	1.7
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°	25924.0	100.0
0°-180°	25924.0	100.0

Coefficient of Utilization



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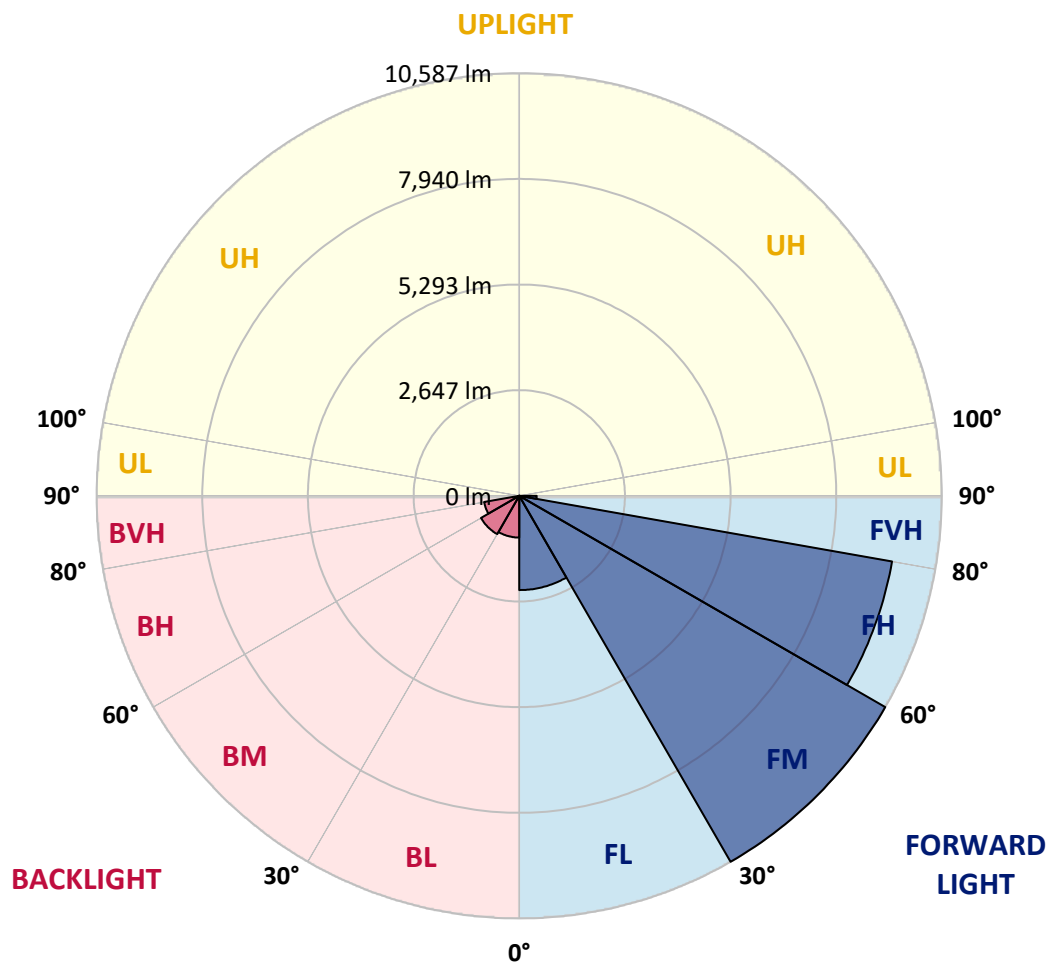
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2362.3	9.1			
FM	(30°-60°)	10586.6	40.8			
FH	(60°-80°)	9482.7	36.6			G4/12000
FVH	(80°-90°)	436.5	1.7			G3/500
BL	(0°-30°)	1045.6	4.0	B3/2500		
BM	(30°-60°)	1107.4	4.3	B2/2500		
BH	(60°-80°)	892.9	3.4	B2/1000		G2/1000
BVH	(80°-90°)	10.0	0.0			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°	64°	65°	75°	85°
0°	6551.0	6551.0	6551.0	6551.0	6551.0	6551.0	6551.0	6551.0	6551.0	6551.0	6551.0
2.5°	6609.2	6592.7	6605.9	6634.4	6648.7	6648.7	6659.6	6646.5	6650.9	6619.1	6573.0
5°	6195.6	6170.4	6206.6	6286.7	6385.4	6469.9	6594.9	6660.7	6667.3	6668.4	6614.7
7.5°	5750.3	5727.2	5781.0	5875.3	6002.6	6159.4	6377.7	6568.6	6579.6	6682.7	6643.2
10°	5388.3	5371.8	5434.3	5535.3	5684.4	5860.0	6127.6	6393.1	6424.9	6653.1	6638.8
12.5°	5100.9	5087.7	5146.9	5263.2	5415.7	5609.8	5889.6	6197.8	6240.6	6586.1	6616.9
15°	4891.3	4889.1	4938.5	5050.4	5219.3	5400.3	5686.6	6016.8	6066.2	6513.7	6613.6
17.5°	4781.6	4784.9	4821.1	4916.6	5061.4	5241.3	5515.5	5864.3	5918.1	6449.0	6630.0
20°	4770.7	4774.0	4793.7	4847.5	4964.8	5123.9	5376.2	5736.0	5791.9	6400.8	6656.3
22.5°	4867.2	4865.0	4870.5	4865.0	4930.8	5051.5	5284.1	5637.3	5702.0	6368.9	6677.2
25°	5052.6	5049.3	5047.1	5006.5	4962.6	5027.4	5245.7	5581.3	5642.8	6345.9	6689.3
27.5°	5310.4	5308.2	5304.9	5238.0	5106.3	5065.8	5250.0	5560.5	5612.0	6327.3	6687.1
30°	5649.3	5664.7	5660.3	5567.1	5361.9	5183.1	5296.1	5549.5	5594.5	6291.1	6664.0
32.5°	6047.5	6078.3	6102.4	6002.6	5745.9	5415.7	5402.5	5561.6	5594.5	6263.6	6622.3
35°	6461.1	6500.6	6589.4	6554.3	6216.5	5765.6	5585.7	5634.0	5661.4	6279.0	6602.6
37.5°	6868.1	6915.2	7108.3	7210.3	6833.0	6228.5	5870.9	5812.8	5827.0	6372.2	6624.5
40°	7340.9	7412.2	7705.0	7869.6	7569.0	6848.3	6297.6	6119.9	6125.4	6577.4	6726.6
42.5°	7961.7	8035.2	8352.2	8610.0	8398.3	7631.5	6876.8	6589.4	6583.9	6961.3	6966.8
45°	8718.6	8795.4	9123.4	9409.7	9314.3	8559.6	7618.4	7275.0	7268.5	7566.8	7422.0
47.5°	9576.5	9652.1	9945.0	10240.1	10343.2	9643.4	8562.9	8210.7	8195.4	8408.2	8125.2
50°	10312.5	10361.9	10631.7	11028.8	11493.9	10975.1	9737.7	9398.7	9382.3	9526.0	9157.4
52.5°	10580.2	10608.7	10882.9	11439.1	12599.7	12778.5	11281.1	10844.5	10832.5	10895.0	10531.9
55°	10038.3	10089.8	10426.6	11251.5	13198.6	14816.6	13229.3	12634.8	12543.7	12408.8	11968.9
57.5°	8561.8	8644.0	9006.0	10103.0	12918.9	16433.5	16092.4	14659.8	14525.9	13701.0	13137.2
60°	6415.0	6515.9	6816.5	8000.1	11425.9	17009.4	19220.9	16916.2	16614.5	14730.0	14211.1
62.5°	4402.1	4452.6	4656.6	5427.8	8414.8	16066.1	21838.3	19938.3	19387.7	15848.9	15372.8
65°	3362.2	3379.7	3463.1	3728.6	5010.9	13050.5	22879.3	23925.8	23259.9	17187.2	16578.3
67.5°	2709.5	2695.2	2810.4	3190.0	3355.6	7961.7	21664.9	27698.2	27386.7	18976.3	17791.6
69°	2389.2	2369.4	2486.8	2927.8	3151.6	5263.2	19367.9	28554.9	28574.7	19920.8	17874.9
70°	2150.0	2163.2	2279.5	2772.0	3082.5	4131.1	17174.0	28336.6	28492.4	20274.0	17374.7
72.5°	1435.9	1471.0	1704.7	2301.4	2964.0	3126.3	10369.6	24316.3	24915.2	19478.7	14906.6
75°	809.6	835.9	1113.4	1735.4	2792.9	2977.1	5477.1	17914.4	18493.6	16288.7	11495.0
77.5°	397.1	411.4	629.7	1120.0	2335.4	2836.7	3106.6	12168.6	12830.0	10631.7	6501.7
80°	167.8	175.5	314.8	691.1	1669.6	2707.3	2306.9	7488.9	7571.2	4165.2	1732.1
82.5°	64.7	66.9	132.7	431.1	1060.8	2110.5	1929.6	3550.9	3465.3	784.3	394.9
85°	7.7	8.8	48.3	258.9	590.2	1086.0	1567.6	1530.3	1416.2	155.8	202.9
87.5°	0.0	0.0	3.3	79.0	175.5	509.0	815.0	635.1	572.6	50.5	105.3
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°	6551.0	6551.0	6551.0	6551.0	6551.0	6551.0	6551.0	6551.0	6551.0	6551.0	6551.0
2.5°	6534.6	6523.6	6464.4	6378.8	6297.6	6196.7	6100.2	6042.1	5996.0	5965.3	6001.5
5°	6552.1	6503.9	6324.0	6093.6	5867.6	5613.1	5376.2	5175.5	5096.5	5008.7	5048.2
7.5°	6546.7	6455.6	6132.0	5721.7	5307.1	4878.2	4472.3	4159.7	3997.3	3838.3	3878.8
10°	6519.2	6365.7	5875.3	5267.6	4646.7	4030.2	3454.3	3016.6	2772.0	2550.4	2582.2
12.5°	6458.9	6245.0	5572.6	4747.6	3917.2	3104.4	2429.8	1869.2	1568.7	1435.9	1452.4
15°	6422.7	6127.6	5252.2	4221.1	3138.4	2162.1	1485.3	1104.6	967.5	923.6	929.1
17.5°	6405.1	6014.6	4921.0	3618.9	2342.0	1376.7	959.8	846.9	817.2	809.6	811.7
20°	6387.6	5900.5	4579.8	3023.2	1613.6	925.8	788.7	755.8	744.8	735.0	737.2
22.5°	6358.0	5790.8	4213.4	2419.9	1088.2	751.4	710.8	679.0	656.0	643.9	646.1
25°	6321.8	5675.7	3839.4	1802.3	794.2	670.2	631.8	586.9	559.4	537.5	538.6
27.5°	6263.6	5534.2	3453.2	1312.0	667.0	600.0	548.5	499.1	453.0	427.8	427.8
30°	6182.5	5374.0	3024.3	939.0	597.8	530.9	468.4	407.0	357.6	334.6	332.4
32.5°	6092.5	5207.3	2591.0	711.9	543.0	466.2	394.9	330.2	286.3	267.7	266.6
35°	6015.7	5027.4	2158.8	596.7	488.1	403.7	325.8	270.9	235.8	220.5	219.4
37.5°	5966.4	4847.5	1737.6	533.1	438.8	345.5	273.1	223.8	198.5	186.5	185.4
40°	5958.7	4713.6	1352.6	484.9	392.7	294.0	228.2	189.8	166.7	153.6	152.5
42.5°	6058.5	4636.8	1037.7	444.3	345.5	249.0	194.2	162.3	138.2	125.1	124.0
45°	6320.7	4661.0	798.6	408.1	298.4	210.6	164.5	134.9	113.0	103.1	100.9
47.5°	6799.0	4827.7	635.1	371.9	253.4	178.8	140.4	111.9	93.2	83.4	82.3
50°	7650.2	5219.3	530.9	332.4	211.7	152.5	116.3	91.0	75.7	66.9	65.8
52.5°	8780.1	5917.0	473.9	294.0	175.5	129.4	95.4	72.4	59.2	52.7	51.6
55°	10026.2	6761.7	436.6	252.3	143.7	107.5	75.7	57.0	46.1	40.6	38.4
57.5°	11242.7	7493.3	401.5	211.7	119.6	87.8	60.3	45.0	36.2	30.7	29.6
60°	12360.5	8165.8	360.9	170.0	97.6	69.1	47.2	35.1	28.5	23.0	23.0
62.5°	13557.3	8685.7	305.0	132.7	80.1	52.7	38.4	31.8	23.0	19.7	18.6
65°	14825.4	9071.9	239.1	103.1	62.5	39.5	31.8	32.9	18.6	14.3	13.2
67.5°	15762.2	8995.1	176.6	81.2	48.3	30.7	30.7	35.1	16.5	11.0	9.9
69°	15556.0	8370.9	148.1	70.2	41.7	26.3	28.5	35.1	15.4	9.9	8.8
70°	14958.1	7679.8	130.5	62.5	37.3	24.1	27.4	34.0	14.3	9.9	8.8
72.5°	12457.1	5784.3	102.0	47.2	29.6	19.7	23.0	29.6	14.3	9.9	7.7
75°	9370.2	3702.2	77.9	34.0	21.9	15.4	17.6	21.9	14.3	8.8	7.7
77.5°	5098.7	1335.0	55.9	23.0	15.4	12.1	12.1	16.5	13.2	6.6	4.4
80°	1310.9	335.7	35.1	15.4	12.1	8.8	7.7	11.0	7.7	1.1	0.0
82.5°	323.6	75.7	18.6	11.0	8.8	3.3	3.3	5.5	3.3	0.0	0.0
85°	177.7	37.3	12.1	7.7	4.4	0.0	0.0	1.1	0.0	0.0	0.0
87.5°	91.0	11.0	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
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)