

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: P323771

Luminaire Tested: **GAN-SA7C-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33957 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

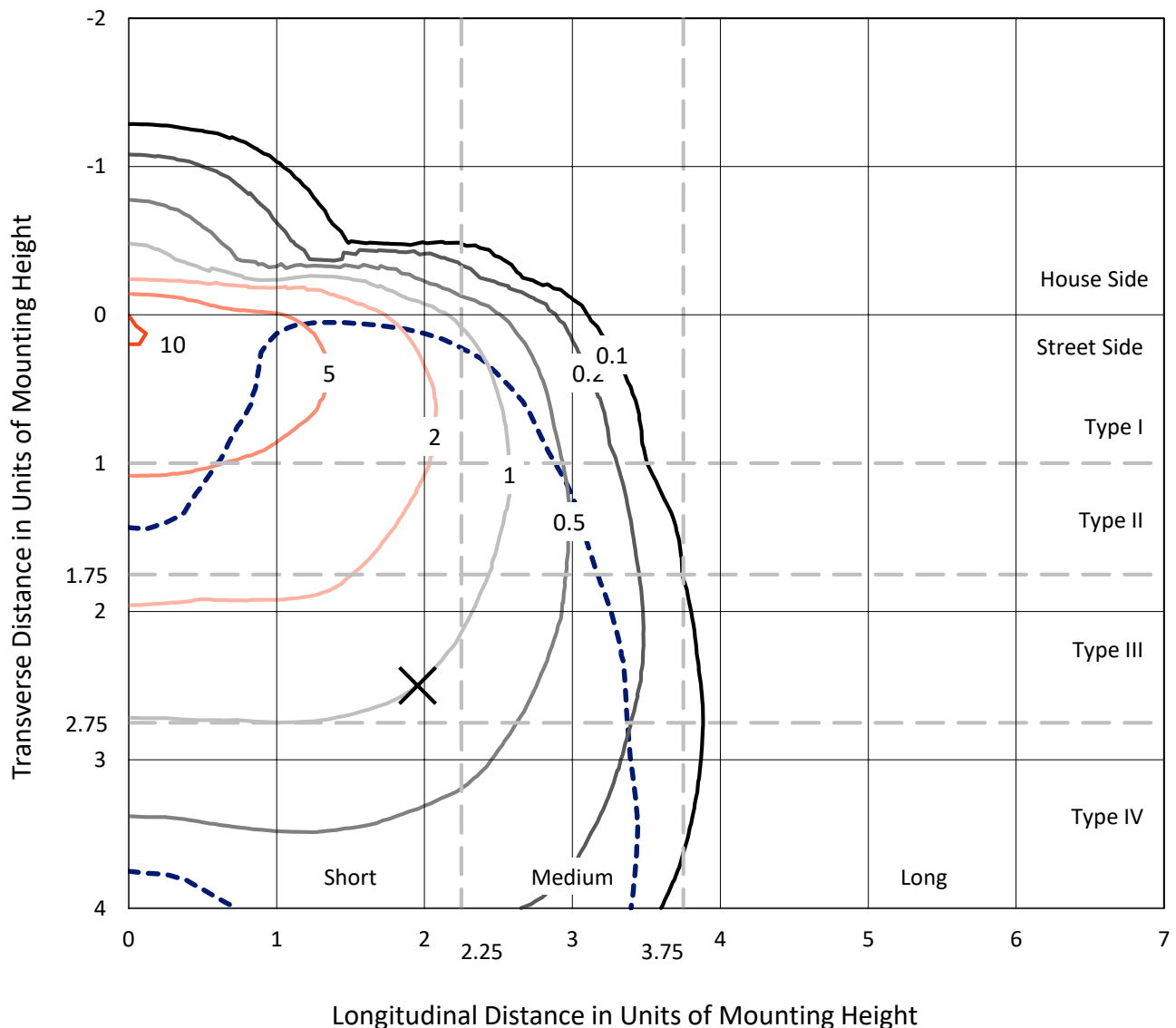
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

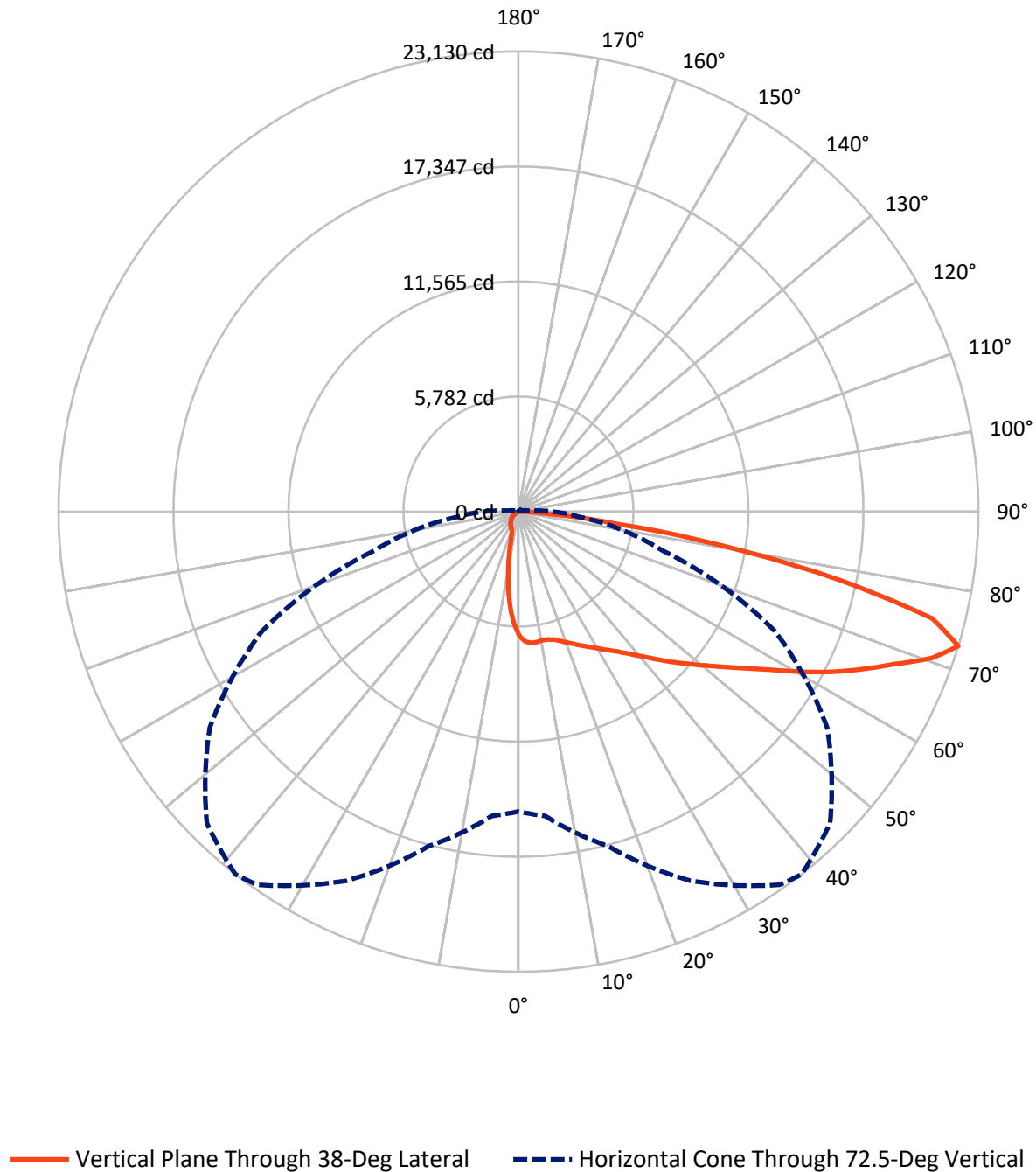
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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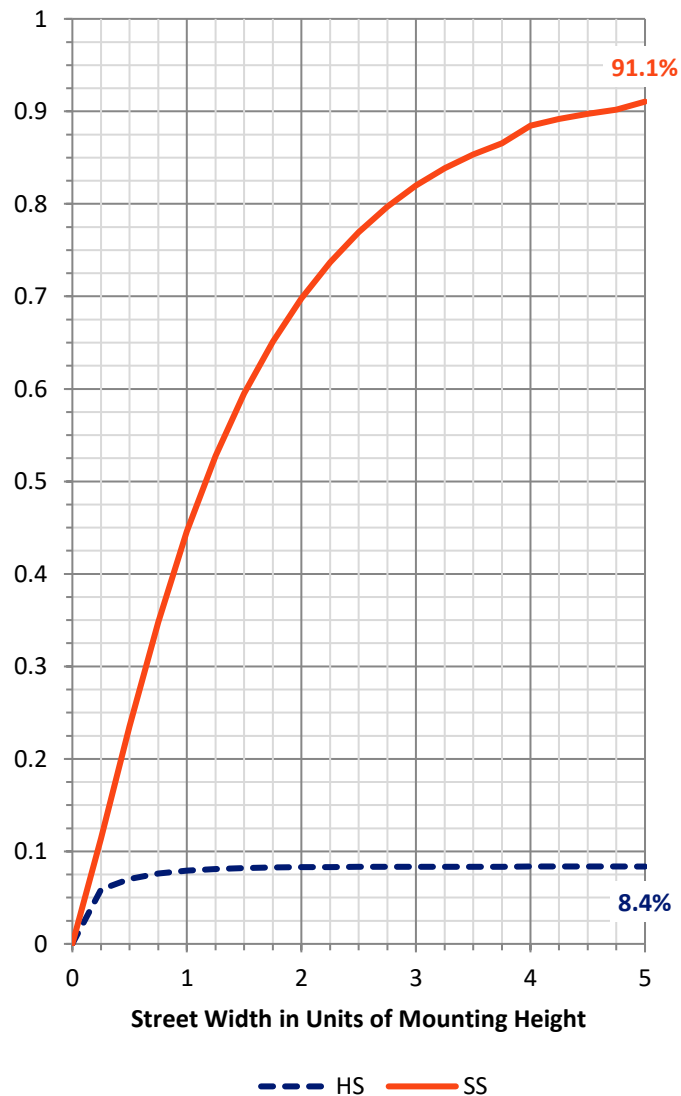
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2857.6	0.0	2857.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	31099.4	0.0	31099.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	33957.0	0.0	33957.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.2	1.6
10°-20°	1301.2	3.8
20°-30°	2069.6	6.1
30°-40°	3111.4	9.2
40°-50°	4746.7	14.0
50°-60°	6708.7	19.8
60°-70°	8414.9	24.8
70°-80°	6292.0	18.5
80°-90°	780.2	2.3
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°	33957.0	100.0
0°-180°	33957.0	100.0

Coefficient of Utilization



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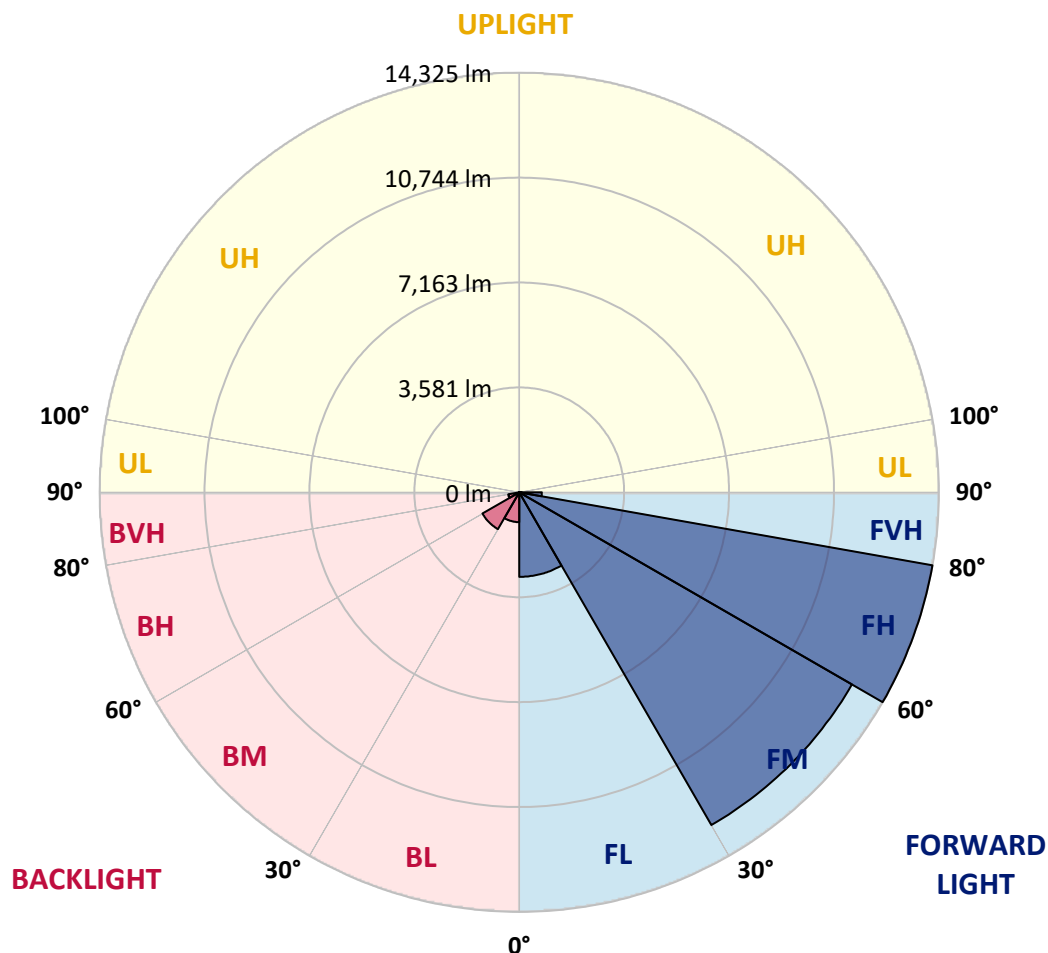
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2885.5	8.5			
FM	(30°-60°)	13115.7	38.6			
FH	(60°-80°)	14325.3	42.2			G5
FVH	(80°-90°)	772.9	2.3			G5
BL	(0°-30°)	1017.5	3.0	B3/2500		
BM	(30°-60°)	1451.1	4.3	B2/2500		
BH	(60°-80°)	381.7	1.1	B1/500		G1/500
BVH	(80°-90°)	7.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6
2.5°	6628.2	6629.6	6614.1	6588.7	6556.2	6539.3	6511.1	6466.0	6418.0	6332.0	6238.9
5°	6763.6	6763.6	6743.8	6710.0	6657.8	6642.3	6588.7	6516.8	6418.0	6278.4	6121.9
7.5°	6749.4	6752.3	6725.5	6690.2	6638.0	6623.9	6559.1	6478.7	6356.0	6186.8	5986.5
10°	6676.1	6683.2	6662.0	6645.1	6597.1	6581.6	6521.0	6440.6	6317.9	6137.4	5907.5
12.5°	6601.4	6608.4	6615.5	6631.0	6601.4	6595.7	6547.8	6480.1	6363.0	6175.5	5916.0
15°	6553.4	6567.5	6618.3	6678.9	6686.0	6680.3	6649.3	6585.9	6467.4	6272.8	5976.6
17.5°	6553.4	6576.0	6681.8	6797.4	6838.3	6842.5	6815.7	6726.9	6585.9	6377.1	6033.0
20°	6608.4	6639.4	6804.4	6968.0	7035.7	7035.7	6983.6	6859.4	6694.4	6471.6	6071.1
22.5°	6749.4	6790.3	6997.7	7186.6	7258.5	7243.0	7172.5	6992.0	6807.3	6578.8	6119.1
25°	7027.3	7058.3	7274.1	7464.4	7508.2	7472.9	7384.1	7152.8	6951.1	6724.1	6206.5
27.5°	7385.5	7389.7	7612.5	7773.3	7746.5	7722.5	7611.1	7354.4	7158.4	6931.4	6357.4
30°	7778.9	7778.9	7975.0	8097.6	8015.9	7996.1	7884.7	7598.4	7423.5	7213.4	6571.8
32.5°	8159.7	8176.6	8336.0	8413.5	8321.9	8302.1	8193.5	7907.3	7776.1	7643.5	6906.0
35°	8527.8	8540.5	8691.4	8733.7	8646.2	8651.9	8574.3	8331.7	8282.4	8265.5	7409.4
37.5°	8884.6	8887.4	9041.1	9067.9	9024.2	9072.1	9079.2	8864.8	8956.5	9093.3	8118.8
40°	9210.3	9213.2	9365.5	9434.6	9509.3	9571.4	9626.4	9512.1	9815.3	10132.6	8963.5
42.5°	9471.2	9500.8	9694.0	9825.2	10022.6	10141.1	10290.6	10284.9	10837.8	11314.4	9984.6
45°	9701.1	9751.9	10021.2	10251.1	10589.6	10778.5	11012.6	11196.0	11988.5	12630.2	11018.3
47.5°	10004.3	10052.3	10359.7	10736.2	11187.5	11435.7	11823.5	12219.8	13253.5	13922.0	12028.0
50°	10431.6	10410.5	10713.7	11253.8	11833.4	12159.2	12712.0	13305.7	14508.6	15047.4	12621.7
52.5°	10887.1	10878.7	11102.9	11816.5	12594.9	12975.7	13706.2	14428.3	15708.8	15823.0	12893.9
55°	11451.2	11390.6	11579.6	12458.1	13498.9	13907.9	14768.1	15539.5	16664.9	16260.2	13030.7
57.5°	12042.1	11942.0	12122.5	13173.1	14518.5	15002.2	15944.3	16622.6	17300.9	16559.1	13029.3
60°	12652.7	12534.3	12748.6	14067.2	15784.9	16344.8	17219.1	17354.5	17894.6	16710.0	12933.4
62.5°	13163.3	13092.7	13411.5	15023.4	17199.4	17749.4	18182.3	18020.2	18395.3	16827.1	12709.2
65°	13703.4	13707.6	14222.4	16138.9	18702.7	19073.6	19110.3	18883.2	18814.1	16803.1	11950.4
67.5°	14433.9	14501.6	15360.4	17653.5	20165.1	20451.4	20448.6	19818.2	19120.1	15849.8	10268.0
70°	15206.7	15366.1	16672.0	19386.7	21761.5	22052.1	21902.6	20413.3	18003.2	12816.3	7267.0
72.5°	15077.0	15353.4	17401.1	20479.6	22908.1	23129.5	22157.8	18950.9	14229.4	7448.9	3094.1
75°	11631.7	11951.9	15955.6	19396.6	21705.1	21506.3	19038.4	14747.0	7776.1	2078.7	696.7
77.5°	6144.5	6315.1	10540.2	14776.6	16924.4	16508.4	13411.5	8180.9	2370.6	514.7	313.1
80°	3218.2	3257.7	4593.2	8383.9	10445.7	10448.5	7948.2	3593.3	977.3	263.7	210.1
82.5°	1723.3	1757.2	2427.0	3874.0	5473.2	4961.3	3043.3	1977.2	568.3	149.5	201.7
85°	414.6	421.7	1376.4	1769.9	2152.0	1537.2	904.0	1659.9	153.7	87.4	163.6
87.5°	159.4	162.2	510.5	765.8	548.6	355.4	423.1	619.1	19.7	33.8	25.4
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°	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6	6244.6
2.5°	6182.5	6145.9	6055.6	5941.4	5839.8	5766.5	5656.5	5584.6	5536.6	5535.2	5516.9
5°	6026.0	5951.2	5756.6	5525.4	5315.2	5126.3	4903.4	4727.2	4596.0	4574.8	4529.7
7.5°	5858.2	5735.5	5436.5	5075.5	4722.9	4364.7	3948.7	3690.6	3469.2	3363.4	3352.2
10°	5755.2	5583.2	5158.7	4636.9	4084.1	3501.6	2957.3	2580.8	2308.6	2231.0	2173.2
12.5°	5734.1	5507.0	4944.3	4225.1	3435.4	2665.4	2063.2	1662.7	1445.5	1376.4	1358.1
15°	5755.2	5471.8	4763.8	3817.5	2778.2	1891.1	1384.9	1152.2	1070.4	1050.6	1049.2
17.5°	5767.9	5429.5	4559.3	3364.9	2140.8	1351.0	1060.5	992.8	980.1	978.7	981.5
20°	5766.5	5364.6	4315.4	2860.0	1592.2	1061.9	959.0	944.9	942.0	943.5	942.0
22.5°	5756.6	5288.4	4047.4	2339.6	1202.9	949.1	915.3	906.8	905.4	905.4	905.4
25°	5775.0	5227.8	3752.7	1841.8	991.4	896.9	875.8	868.7	867.3	867.3	864.5
27.5°	5841.2	5193.9	3429.7	1417.3	895.5	850.4	833.5	832.0	827.8	826.4	829.2
30°	5948.4	5193.9	3075.8	1102.8	837.7	802.4	789.7	786.9	785.5	784.1	785.5
32.5°	6137.4	5233.4	2689.3	916.7	782.7	748.8	740.4	744.6	740.4	740.4	740.4
35°	6478.7	5351.9	2284.6	799.6	724.9	696.7	688.2	693.8	691.0	691.0	689.6
37.5°	6976.5	5571.9	1877.0	729.1	674.1	644.5	633.2	641.7	638.8	638.8	637.4
40°	7582.9	5892.0	1489.2	675.5	624.7	593.7	583.8	588.1	581.0	581.0	583.8
42.5°	8331.7	6298.2	1150.8	623.3	575.4	545.8	540.1	535.9	523.2	516.2	517.6
45°	9163.8	6721.2	896.9	572.6	528.8	504.9	496.4	485.1	464.0	449.9	451.3
47.5°	9907.0	7047.0	729.1	523.2	486.5	468.2	455.5	434.4	403.3	386.4	387.8
50°	10297.6	7096.4	620.5	473.8	447.0	428.7	410.4	377.9	341.3	322.9	321.5
52.5°	10397.8	6865.1	540.1	428.7	407.6	386.4	362.4	318.7	277.8	258.1	255.3
55°	10434.4	6512.5	468.2	386.4	365.3	341.3	310.3	260.9	222.8	203.1	201.7
57.5°	10313.1	5986.5	411.8	348.3	322.9	293.3	255.3	208.7	172.1	156.5	156.5
60°	10043.8	5274.3	368.1	307.4	279.2	245.4	205.9	162.2	128.3	115.6	115.6
62.5°	9506.5	4352.0	327.2	265.1	238.3	203.1	166.4	122.7	90.3	83.2	84.6
65°	8492.5	3301.4	286.3	227.1	203.1	167.8	129.7	87.4	60.6	60.6	63.5
67.5°	6925.7	2293.1	244.0	193.2	174.9	136.8	98.7	60.6	42.3	47.9	53.6
70°	4584.7	1286.1	208.7	159.4	149.5	108.6	73.3	40.9	33.8	45.1	55.0
72.5°	1730.4	500.6	174.9	128.3	129.7	83.2	52.2	31.0	31.0	49.4	64.9
75°	482.3	245.4	125.5	94.5	101.5	60.6	38.1	26.8	29.6	56.4	76.2
77.5°	283.5	180.5	81.8	55.0	69.1	42.3	25.4	21.2	25.4	47.9	73.3
80°	228.5	95.9	47.9	28.2	38.1	24.0	16.9	12.7	7.1	18.3	38.1
82.5°	228.5	57.8	22.6	19.7	19.7	12.7	8.5	5.6	1.4	0.0	9.9
85°	153.7	24.0	14.1	12.7	9.9	4.2	2.8	1.4	0.0	0.0	0.0
87.5°	25.4	9.9	5.6	2.8	1.4	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)