

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: P322822

Luminaire Tested: **GAN-SA8D-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37691 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

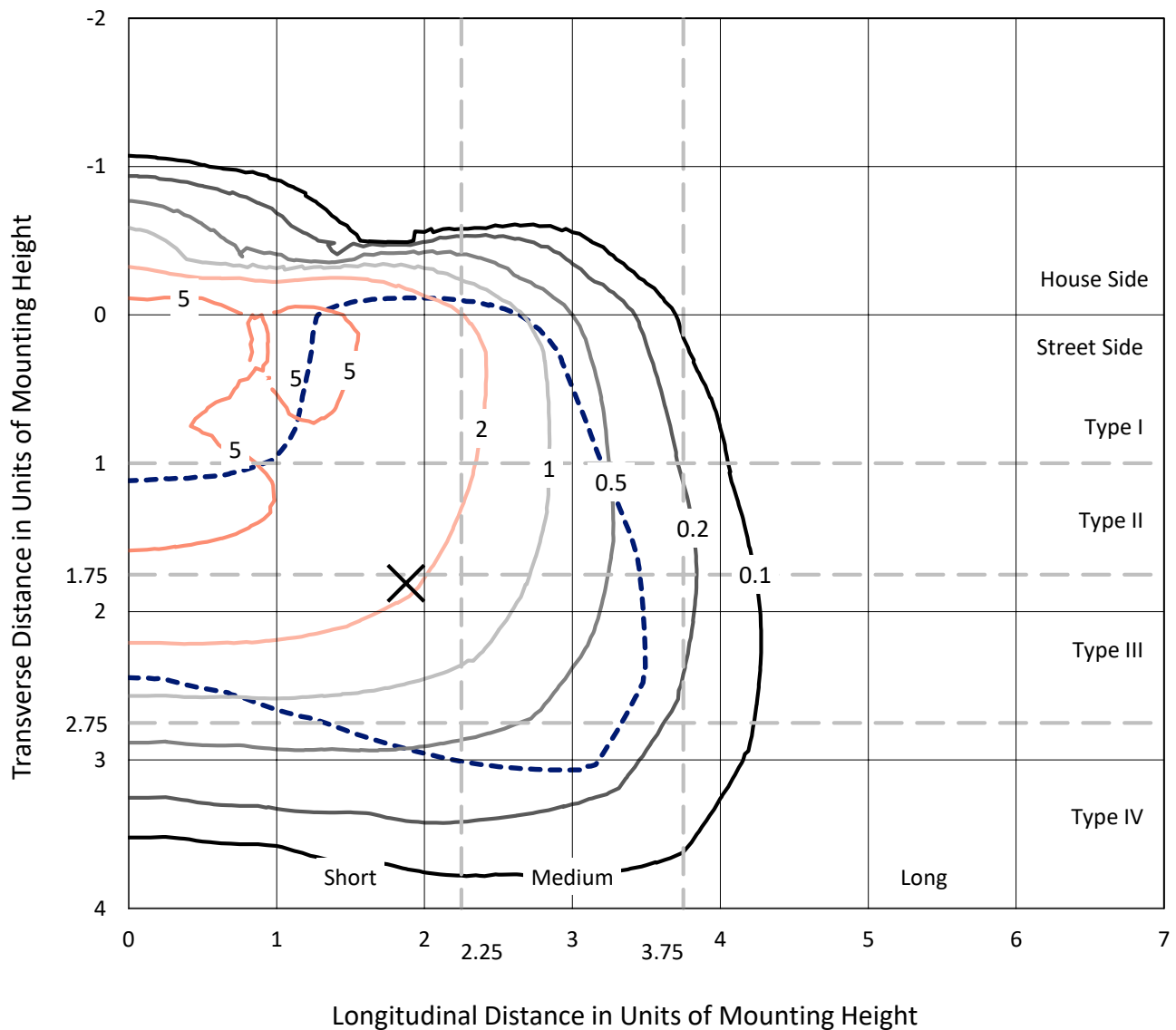
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

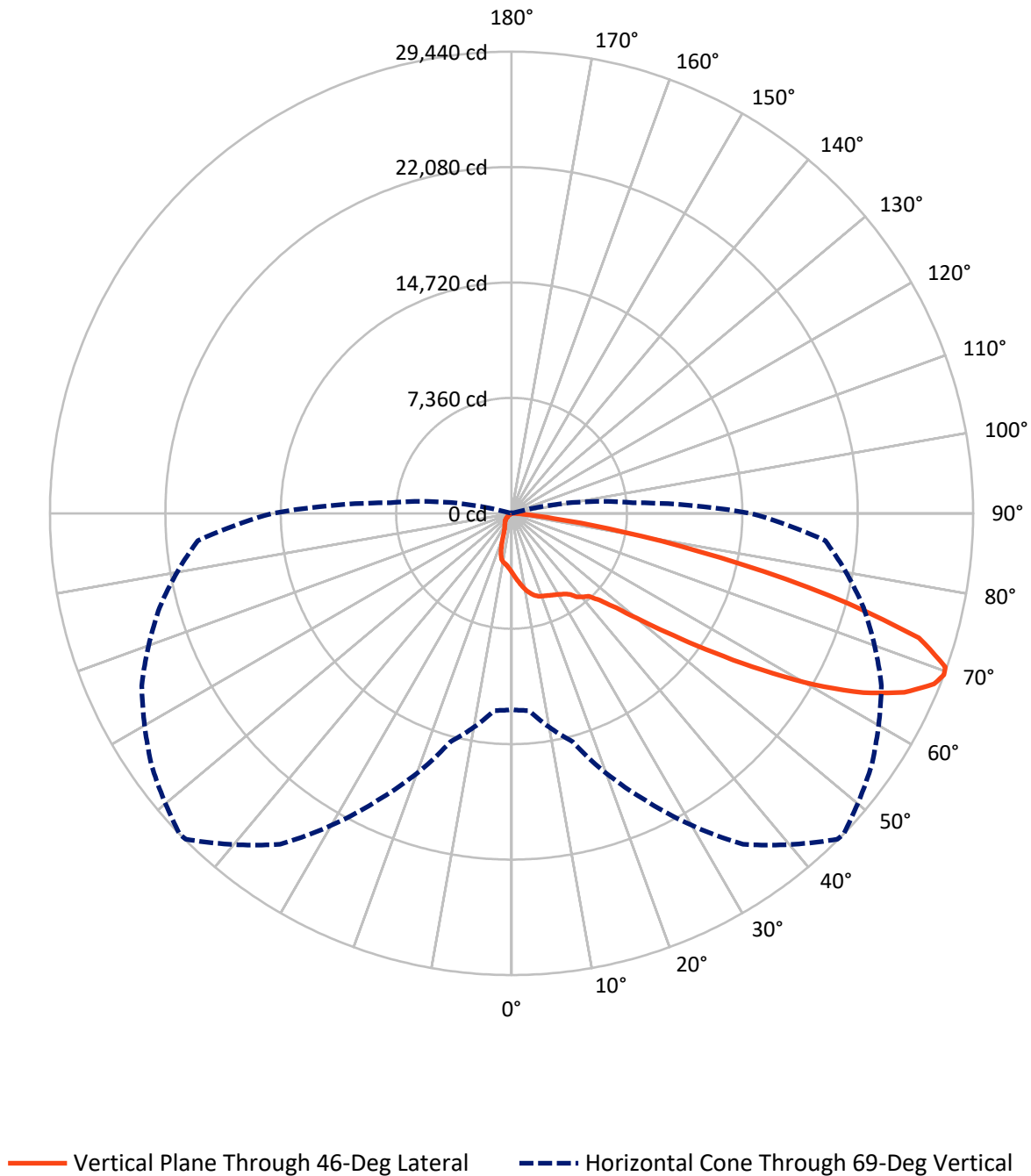
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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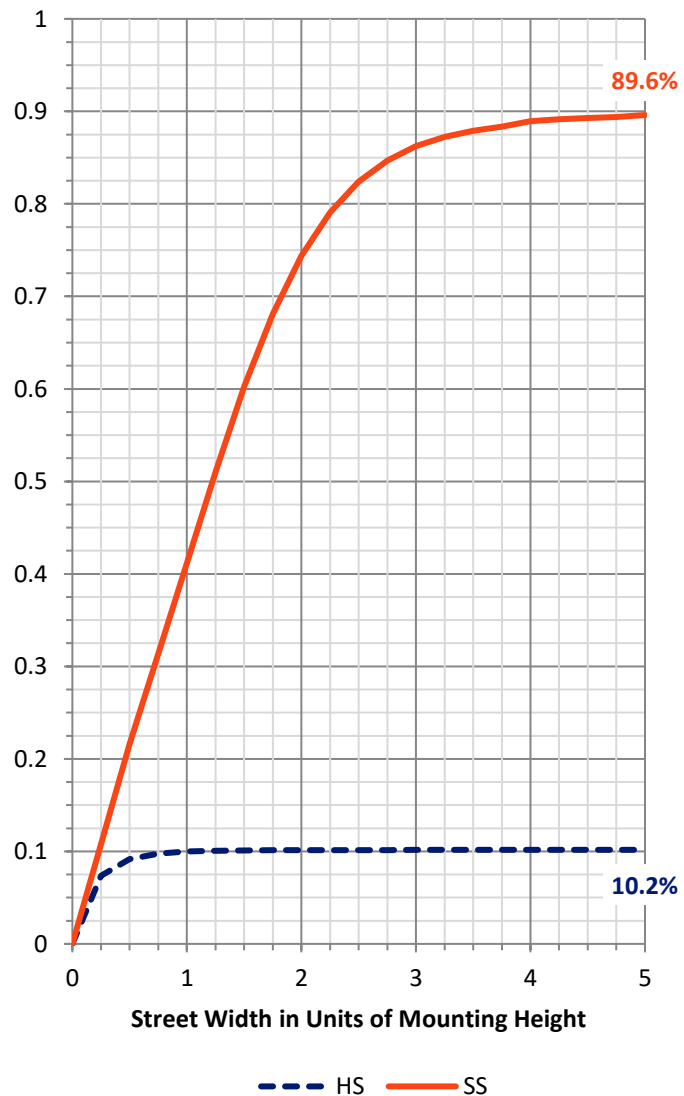
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3868.1	0.0	3868.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	33822.9	0.0	33822.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	37691.0	0.0	37691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.9	1.0
10°-20°	1140.4	3.0
20°-30°	1793.4	4.8
30°-40°	2571.8	6.8
40°-50°	4445.0	11.8
50°-60°	8781.5	23.3
60°-70°	12272.9	32.6
70°-80°	5929.1	15.7
80°-90°	381.1	1.0
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°	37691.0	100.0
0°-180°	37691.0	100.0

Coefficient of Utilization



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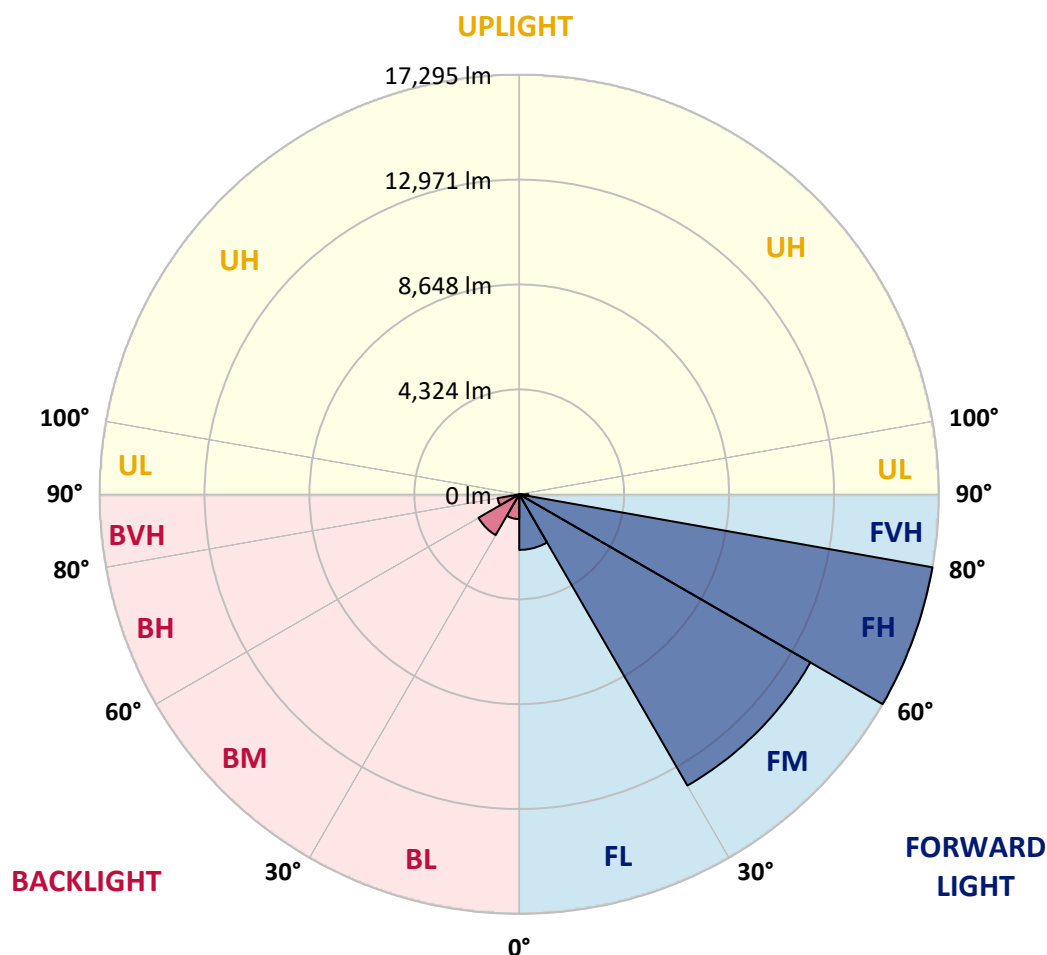
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2290.2	6.1			
FM	(30°-60°)	13859.8	36.8			
FH	(60°-80°)	17295.0	45.9			G5
FVH	(80°-90°)	377.9	1.0			G3/500
BL	(0°-30°)	1019.5	2.7	B3/2500		
BM	(30°-60°)	1938.4	5.1	B2/2500		
BH	(60°-80°)	907.0	2.4	B2/1000		G2/1000
BVH	(80°-90°)	3.2	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°	45°	46°	55°	65°	75°	85°
0°	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5
2.5°	4195.3	4190.0	4165.3	4154.7	4094.6	4059.2	4045.1	4000.9	3937.3	3873.7	3803.0
5°	4672.5	4670.7	4624.8	4580.6	4467.5	4361.4	4342.0	4239.5	4096.4	3962.1	3827.7
7.5°	5160.2	5137.2	5091.3	5006.5	4842.1	4672.5	4656.6	4511.7	4308.4	4114.0	3921.4
10°	5573.7	5559.6	5499.5	5370.5	5177.9	4985.3	4965.8	4787.3	4557.6	4319.0	4073.4
12.5°	5895.4	5884.8	5805.2	5644.4	5439.4	5239.7	5213.2	5054.2	4808.5	4541.7	4251.9
15°	6091.5	6086.2	5989.0	5817.6	5616.1	5443.0	5420.0	5280.4	5052.4	4773.2	4446.3
17.5°	6137.5	6139.2	6038.5	5865.3	5699.2	5575.5	5557.8	5451.8	5260.9	4983.5	4640.7
20°	6035.0	6056.2	5966.1	5815.8	5713.3	5648.0	5633.8	5570.2	5409.4	5147.8	4796.2
22.5°	5890.1	5900.7	5838.8	5738.1	5695.7	5708.0	5701.0	5665.6	5529.6	5289.2	4949.9
25°	5801.7	5801.7	5764.6	5679.8	5708.0	5784.0	5785.8	5778.7	5670.9	5462.4	5137.2
27.5°	5798.2	5787.6	5745.2	5681.5	5759.3	5875.9	5883.0	5930.7	5863.6	5672.7	5370.5
30°	5939.5	5927.2	5837.0	5754.0	5853.0	5978.4	5996.1	6100.4	6066.8	5900.7	5630.3
32.5°	6270.0	6225.8	6026.1	5890.1	5964.3	6114.5	6137.5	6303.6	6356.6	6181.7	5881.2
35°	6722.4	6582.8	6294.8	6148.1	6155.1	6312.4	6333.6	6577.5	6734.8	6439.7	6075.6
37.5°	7346.2	7277.3	6809.0	6416.7	6448.5	6687.1	6748.9	7014.0	6969.8	6581.0	6296.5
40°	8714.0	8606.2	8107.9	7169.5	6729.5	6991.0	7010.5	7151.8	7155.4	6900.9	6756.0
42.5°	10576.7	10532.5	10007.6	8535.6	7282.6	7194.3	7229.6	7468.2	7735.0	7576.0	7568.9
45°	12639.0	12616.0	12059.3	10348.7	8401.2	7860.5	7904.7	8224.5	8735.2	8770.6	8995.0
47.5°	14298.4	14287.8	13967.9	12372.1	10113.7	8989.7	9003.9	9343.2	10240.9	10684.5	11043.2
50°	15811.1	15862.3	15609.6	14561.7	12446.4	10758.7	10725.1	10951.3	12393.3	13119.7	13565.0
52.5°	17914.1	17986.5	17277.9	16604.6	14893.9	12953.5	12927.0	13163.8	14980.5	15524.8	15604.3
55°	19771.4	19647.7	19087.5	18893.1	17878.7	15664.4	15657.4	15865.9	17482.9	17714.4	17861.0
57.5°	20591.4	20543.7	20814.0	21259.4	21004.9	18868.3	18852.4	18693.4	19721.9	19746.6	20197.3
60°	21109.2	21167.5	21996.3	23369.4	24003.8	22316.1	22213.7	21243.5	21860.2	21805.4	22287.9
62.5°	20720.4	20835.2	22326.8	24615.3	26248.2	25325.7	25180.8	23579.7	23687.5	23498.4	23947.3
65°	18656.3	18834.8	21278.8	24380.2	27361.5	27677.8	27531.1	25642.0	25138.4	24827.3	24578.2
67.5°	15148.4	15254.4	17806.3	22335.6	26859.6	29081.0	29050.9	27449.9	26234.0	24602.9	22669.6
69°	12518.8	12623.1	15079.5	20183.1	25755.1	29381.4	29439.7	28029.5	26025.5	23238.6	20085.9
70°	10603.2	10714.5	13003.0	18338.2	24473.9	29241.8	29346.1	27974.7	25428.2	21658.8	17818.6
72.5°	5561.4	5656.8	8005.4	12633.7	19951.6	26850.8	27167.1	25610.2	21554.5	15729.8	10536.0
75°	1747.8	1802.5	3126.2	6604.0	13660.4	20877.7	20950.1	20089.5	15305.7	8652.2	4387.9
77.5°	666.2	650.3	1040.9	2433.4	6906.2	13146.2	13589.7	12554.2	8031.9	3059.0	1012.6
80°	358.7	360.5	540.8	1007.3	2954.8	6756.0	7130.6	6084.5	2854.0	954.3	233.3
82.5°	155.5	162.6	304.0	533.7	1357.2	2491.7	2679.1	2230.2	1090.4	641.5	86.6
85°	33.6	37.1	146.7	289.8	553.1	699.8	733.4	722.8	694.5	498.3	33.6
87.5°	0.0	0.0	65.4	104.3	139.6	159.0	139.6	182.0	383.5	335.8	17.7
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°	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5
2.5°	3780.0	3748.2	3693.4	3633.4	3590.9	3546.8	3511.4	3495.5	3477.8	3465.5	3481.4
5°	3773.0	3711.1	3605.1	3502.6	3428.4	3368.3	3318.8	3299.4	3279.9	3265.8	3264.0
7.5°	3834.8	3748.2	3585.6	3435.4	3320.6	3239.3	3172.1	3143.8	3120.9	3110.3	3101.4
10°	3953.2	3841.9	3624.5	3428.4	3279.9	3142.1	2997.2	2885.8	2813.4	2779.8	2767.4
12.5°	4107.0	3967.4	3698.7	3465.5	3249.9	2984.8	2677.3	2412.2	2240.8	2184.3	2150.7
15°	4287.2	4114.0	3795.9	3513.2	3140.3	2656.1	2134.8	1788.4	1629.4	1597.5	1562.2
17.5°	4460.4	4269.5	3912.6	3522.0	2900.0	2122.4	1564.0	1328.9	1267.1	1288.3	1293.6
20°	4612.4	4423.3	4027.4	3444.3	2463.5	1592.2	1210.5	1152.2	1175.2	1215.8	1222.9
22.5°	4766.1	4571.7	4133.5	3239.3	1905.0	1208.8	1090.4	1104.5	1127.5	1168.1	1175.2
25°	4953.4	4752.0	4232.4	2862.9	1429.7	1028.5	1035.6	1056.8	1079.8	1116.9	1120.4
27.5°	5169.0	4980.0	4297.8	2373.3	1060.3	945.4	968.4	1000.2	1023.2	1058.6	1065.6
30°	5455.3	5280.4	4319.0	1866.2	888.9	871.2	881.8	920.7	954.3	986.1	991.4
32.5°	5723.9	5577.3	4248.3	1408.5	823.5	802.3	802.3	825.3	864.2	894.2	901.3
35°	5971.4	5875.9	4022.1	1030.3	774.0	738.7	721.0	721.0	745.8	770.5	777.6
37.5°	6298.3	6294.8	3656.3	821.7	726.3	685.7	648.6	620.3	611.4	616.8	620.3
40°	6858.5	6863.8	3179.2	736.9	685.7	630.9	574.3	523.1	475.4	459.5	457.7
42.5°	7733.2	7653.7	2679.1	696.3	650.3	574.3	489.5	420.6	346.4	323.4	321.6
45°	9122.3	8650.4	2148.9	659.2	613.2	510.7	404.7	311.0	250.9	233.3	233.3
47.5°	11145.7	9959.9	1664.7	618.5	563.7	438.3	305.7	224.4	183.8	175.0	176.7
50°	13238.1	11242.9	1275.9	567.3	503.7	362.3	226.2	162.6	139.6	139.6	141.4
52.5°	15093.6	12183.0	994.9	512.5	429.4	284.5	171.4	127.2	116.6	114.9	116.6
55°	16830.8	12789.2	761.7	448.9	341.1	212.1	130.8	104.3	97.2	93.7	91.9
57.5°	18506.1	13089.6	570.8	362.3	247.4	153.7	104.3	88.4	81.3	76.0	74.2
60°	19621.2	12845.7	392.3	266.8	171.4	111.3	86.6	76.0	67.2	61.9	60.1
62.5°	20250.3	12179.5	252.7	192.6	121.9	83.1	68.9	63.6	51.2	45.9	45.9
65°	19995.8	11080.3	176.7	137.8	88.4	61.9	51.2	51.2	37.1	30.0	28.3
67.5°	17719.7	9360.8	134.3	102.5	63.6	45.9	38.9	44.2	23.0	14.1	14.1
69°	15245.6	7758.0	114.9	84.8	53.0	37.1	33.6	40.6	15.9	10.6	8.8
70°	13250.4	6692.4	104.3	74.2	44.2	31.8	30.0	38.9	15.9	8.8	7.1
72.5°	7927.6	3732.3	79.5	53.0	28.3	24.7	24.7	44.2	15.9	8.8	7.1
75°	3203.9	1314.8	58.3	37.1	21.2	21.2	30.0	56.6	14.1	7.1	5.3
77.5°	726.3	288.1	33.6	23.0	14.1	21.2	35.3	44.2	8.8	3.5	0.0
80°	176.7	70.7	21.2	14.1	8.8	15.9	26.5	24.7	1.8	0.0	0.0
82.5°	58.3	24.7	8.8	7.1	1.8	5.3	12.4	7.1	0.0	0.0	0.0
85°	24.7	14.1	3.5	1.8	0.0	0.0	1.8	0.0	0.0	0.0	0.0
87.5°	15.9	5.3	0.0	0.0	0.0	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)