

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: P322181

Luminaire Tested: **GAN-SA7D-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33448 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

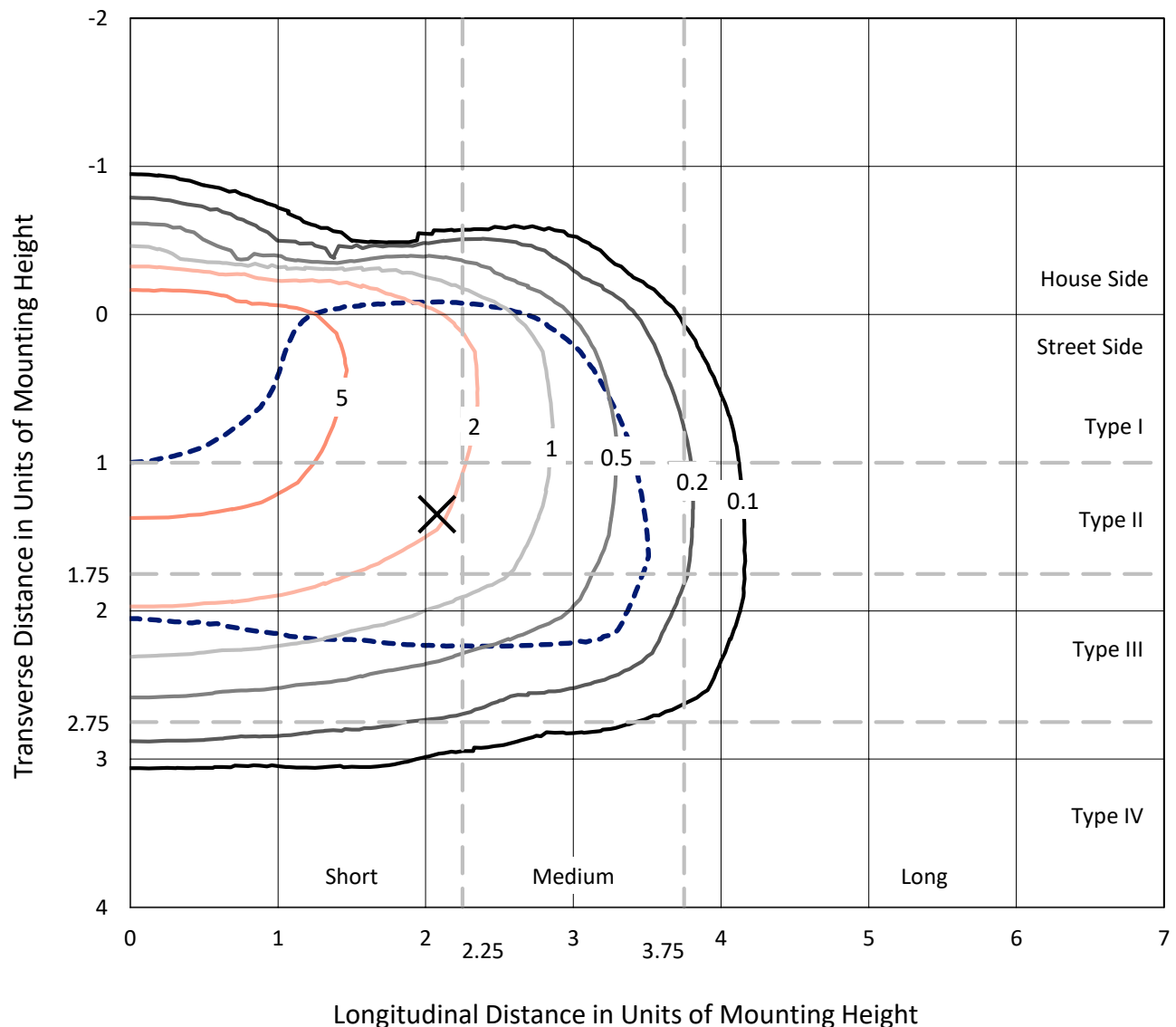
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

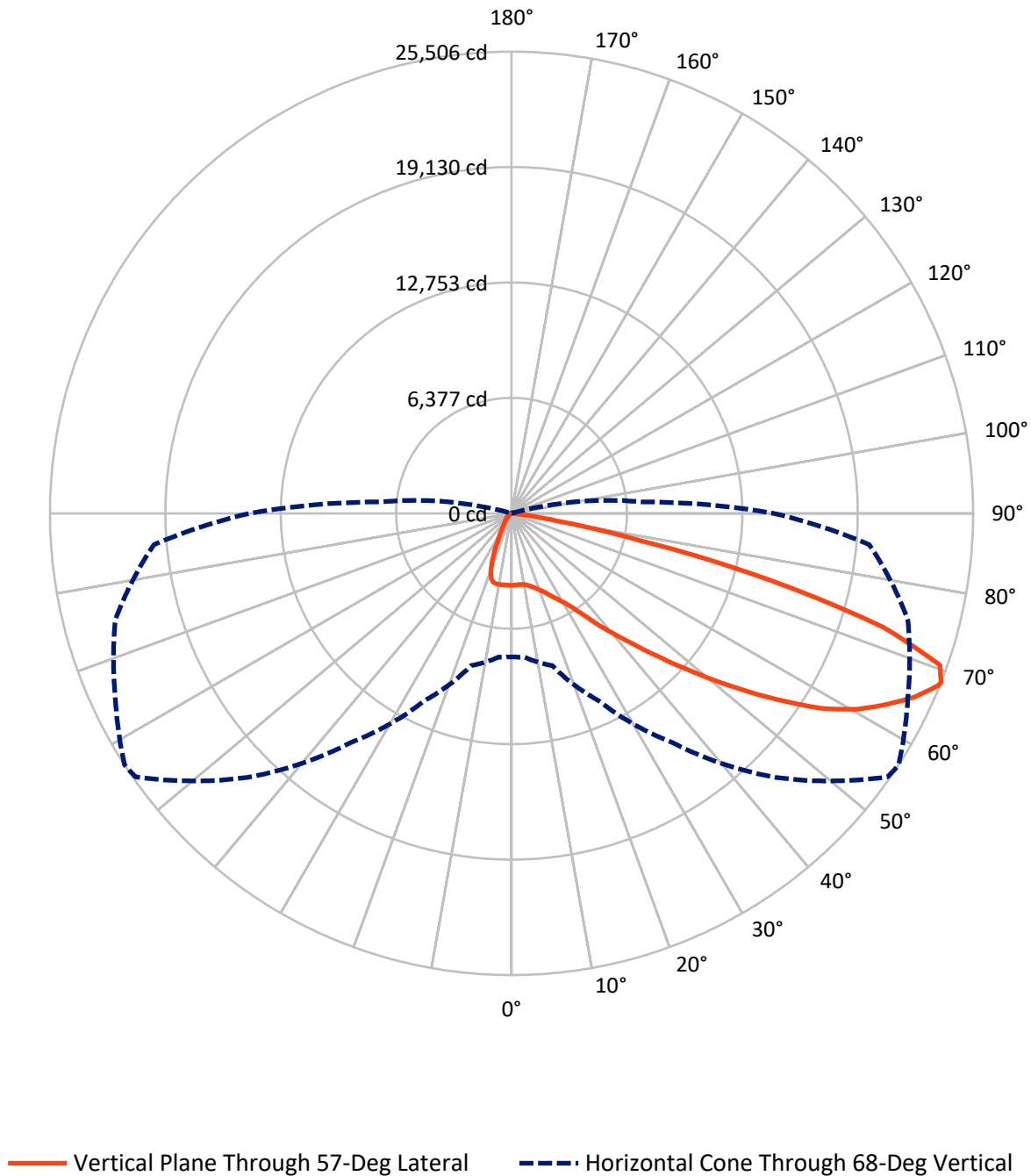
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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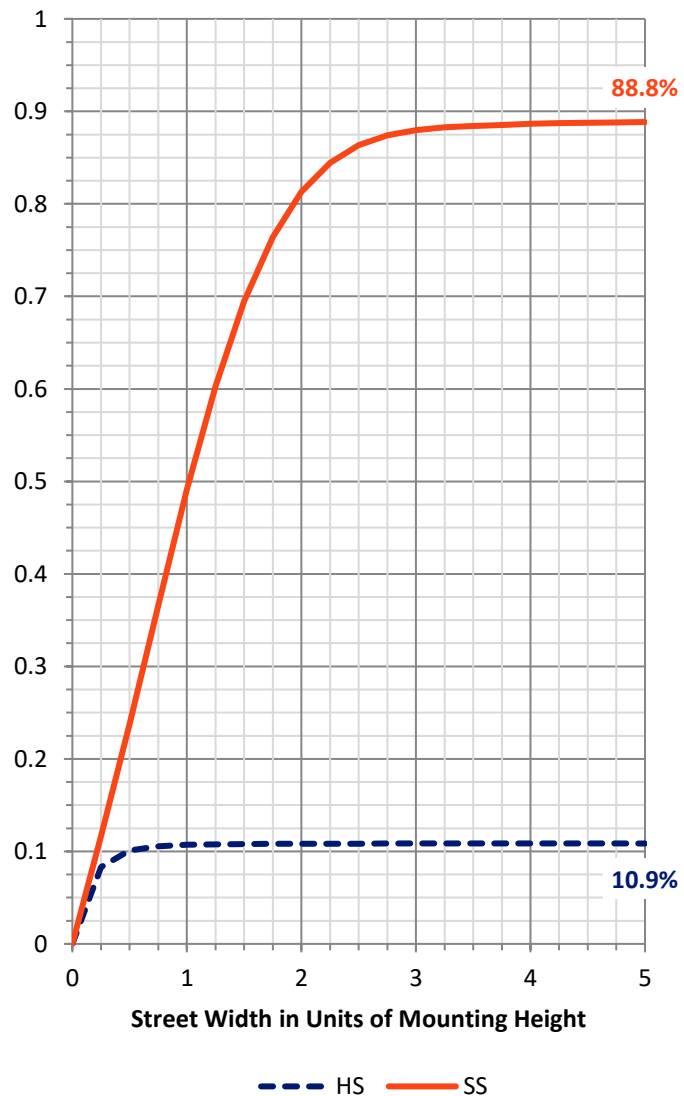
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3667.8	0.0	3667.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	29780.2	0.0	29780.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	33448.0	0.0	33448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.0	1.1
10°-20°	1030.7	3.1
20°-30°	1778.1	5.3
30°-40°	3068.9	9.2
40°-50°	5249.4	15.7
50°-60°	8398.5	25.1
60°-70°	9703.6	29.0
70°-80°	3707.9	11.1
80°-90°	139.0	0.4
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°	33448.0	100.0
0°-180°	33448.0	100.0

Coefficient of Utilization



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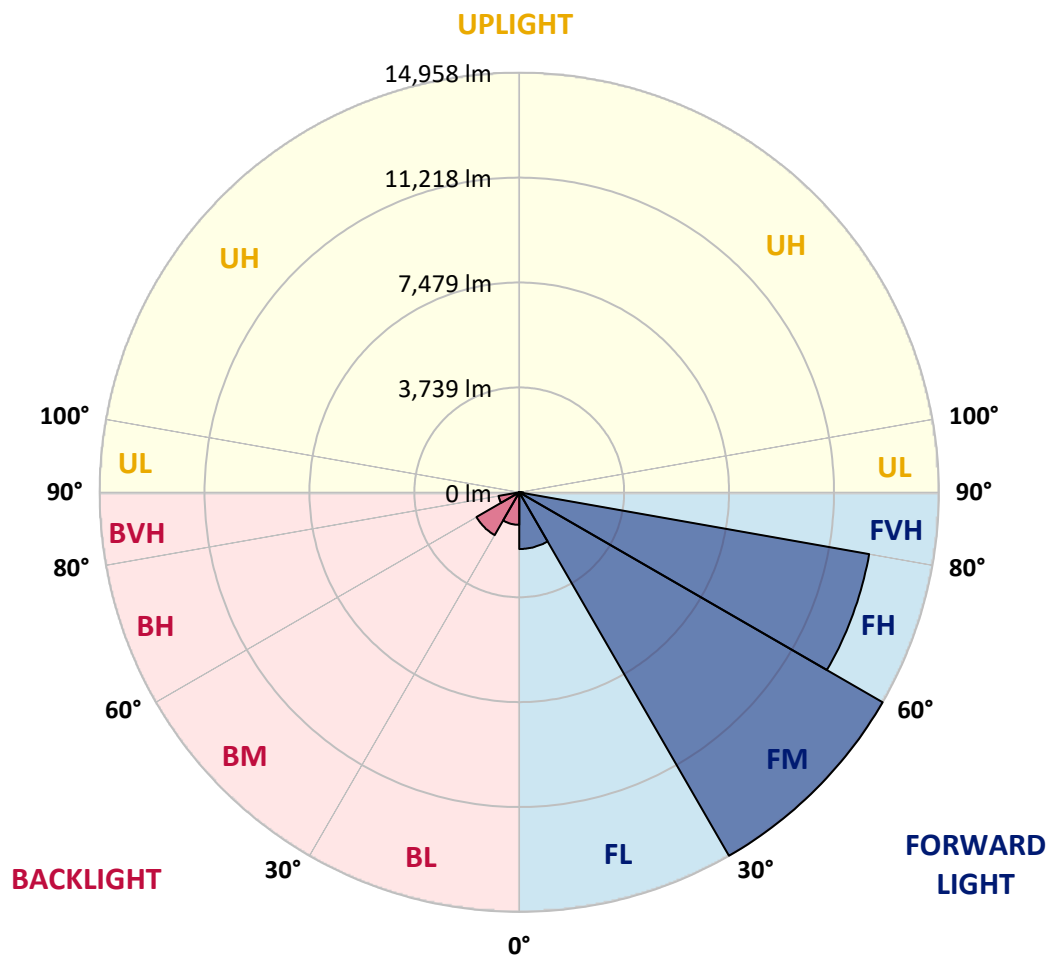
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2021.6	6.0			
FM	(30°-60°)	14957.7	44.7			
FH	(60°-80°)	12664.5	37.9			G5
FVH	(80°-90°)	136.5	0.4			G2/225
BL	(0°-30°)	1159.1	3.5	B3/2500		
BM	(30°-60°)	1759.1	5.3	B2/2500		
BH	(60°-80°)	747.0	2.2	B2/1000		G2/1000
BVH	(80°-90°)	2.5	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5
2.5°	3881.2	3898.6	3911.2	3919.1	3928.6	3949.2	3955.5	3965.0	3969.8	3969.8	3980.8
5°	3727.8	3746.8	3773.6	3795.8	3840.1	3897.0	3938.1	3953.9	3982.4	4007.7	4022.0
7.5°	3585.4	3607.6	3639.2	3691.4	3767.3	3859.0	3944.5	3966.6	4022.0	4075.7	4102.6
10°	3493.7	3511.1	3552.2	3626.6	3726.2	3854.3	3974.5	4001.4	4096.3	4186.4	4237.0
12.5°	3462.1	3477.9	3520.6	3604.4	3727.8	3878.0	4044.1	4083.6	4222.8	4354.1	4425.3
15°	3507.9	3511.1	3557.0	3636.0	3757.8	3936.5	4159.5	4207.0	4382.6	4553.4	4641.9
17.5°	3685.1	3670.8	3694.6	3729.4	3825.8	4014.0	4281.3	4352.5	4586.6	4787.4	4871.3
20°	4127.9	4127.9	4074.1	3979.2	3980.8	4134.2	4445.8	4526.5	4812.7	5045.2	5121.1
22.5°	4885.5	4871.3	4763.7	4531.2	4317.7	4341.4	4646.7	4751.1	5084.8	5333.1	5358.4
25°	5796.5	5779.1	5613.0	5285.6	4915.5	4676.7	4918.7	5038.9	5409.0	5628.8	5576.6
27.5°	6761.2	6747.0	6582.5	6176.1	5649.4	5211.3	5242.9	5356.8	5739.5	5956.2	5790.2
30°	7696.0	7700.7	7537.8	7120.3	6524.0	5893.0	5654.1	5720.6	6060.6	6280.4	6043.2
32.5°	8584.8	8591.1	8450.4	7983.8	7427.1	6685.3	6223.5	6206.1	6433.9	6650.5	6378.5
35°	9377.2	9393.0	9296.5	8934.3	8344.4	7567.8	6962.1	6921.0	6963.7	7208.8	6892.5
37.5°	10141.1	10150.6	10077.8	9772.6	9279.1	8537.4	7895.2	7836.7	7745.0	7933.2	7571.0
40°	10977.7	10954.0	10870.2	10593.4	10169.5	9608.1	8898.0	8796.7	8637.0	8804.6	8463.0
42.5°	11755.9	11729.0	11743.2	11430.1	11072.6	10708.9	10066.7	9892.8	9799.5	9992.4	9557.5
45°	12728.5	12714.3	12761.7	12489.7	12200.3	11936.2	11406.3	11216.5	11175.4	11401.6	10881.3
47.5°	13688.6	13723.3	13870.4	13755.0	13637.9	13405.5	12825.0	12739.6	12764.9	13038.5	12277.8
50°	14488.8	14530.0	14933.3	15066.1	15235.3	15099.3	14517.3	14465.1	14564.7	14811.5	13780.3
52.5°	15067.7	15151.5	15652.9	16264.9	16881.8	16973.5	16393.1	16345.6	16480.0	16518.0	14941.2
55°	15469.4	15543.7	16111.5	17231.3	18487.1	18882.5	18521.9	18338.4	18313.1	17938.3	16162.1
57.5°	15540.6	15532.7	16348.8	17856.0	19746.0	20766.1	20538.4	20358.1	19839.3	19251.0	17561.8
60°	15138.9	15184.7	16132.1	18072.7	20536.8	22191.1	22208.5	21974.4	21166.3	20527.3	18918.8
62.5°	13902.1	14088.7	15045.5	17504.9	20527.3	22765.2	23432.7	23253.9	22287.6	21572.7	20294.8
65°	11896.6	11963.1	12875.6	15559.6	19140.3	22524.8	24535.0	24468.6	23298.2	22588.1	21001.8
67.5°	8687.6	8543.7	9502.1	12252.5	16204.8	21123.5	25325.8	25409.6	24077.9	22796.9	20248.9
68°	7928.4	7971.2	8717.7	11434.8	15436.2	20628.5	25378.0	25506.1	24155.4	22660.8	19837.7
70°	4725.8	4808.0	5473.8	7873.1	11743.2	17827.5	24815.0	25107.5	23693.6	21258.0	17158.5
72.5°	1206.7	1304.8	1934.3	3523.8	6707.5	12560.9	20948.0	21443.0	20571.6	17245.5	11583.5
75°	496.6	521.9	691.1	1160.9	2498.9	5658.9	13807.2	14866.8	14261.1	10324.5	5235.0
77.5°	343.2	360.6	444.4	643.7	1081.8	1918.5	6769.2	7534.6	6788.1	3523.8	1141.9
80°	246.7	261.0	317.9	428.6	621.6	684.8	2206.3	2551.1	2026.0	773.4	283.1
82.5°	147.1	158.2	237.2	305.2	378.0	327.4	548.8	623.1	586.8	384.3	126.5
85°	72.8	85.4	159.7	218.3	204.0	137.6	167.6	186.6	230.9	234.1	68.0
87.5°	4.7	9.5	93.3	131.3	56.9	31.6	49.0	60.1	82.2	115.5	28.5
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°	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5
2.5°	3985.6	3987.2	3976.1	3971.3	3974.5	3955.5	3947.6	3950.8	3950.8	3955.5	3947.6
5°	4025.1	4025.1	4006.1	3980.8	3966.6	3930.2	3906.5	3900.2	3895.4	3892.3	3885.9
7.5°	4110.5	4101.0	4067.8	4012.5	3965.0	3885.9	3825.8	3794.2	3778.4	3772.1	3767.3
10°	4248.1	4230.7	4175.4	4072.6	3963.4	3822.7	3691.4	3598.1	3520.6	3489.0	3470.0
12.5°	4433.2	4407.9	4314.5	4143.7	3952.4	3693.0	3408.3	3134.7	2880.1	2775.7	2723.5
15°	4646.7	4610.3	4463.2	4203.8	3887.5	3400.4	2782.0	2302.8	1950.1	1817.2	1760.3
17.5°	4863.4	4815.9	4592.9	4241.8	3693.0	2794.6	1951.7	1474.0	1238.4	1175.1	1153.0
20°	5081.6	5012.0	4705.2	4213.3	3253.3	2014.9	1287.4	1077.1	1009.0	990.1	983.7
22.5°	5288.8	5181.2	4806.4	4102.6	2576.4	1352.2	1018.5	952.1	930.0	918.9	915.7
25°	5469.1	5318.8	4895.0	3761.0	1823.6	1021.7	917.3	895.2	866.7	846.1	847.7
27.5°	5638.3	5456.4	4948.8	3197.9	1216.2	873.0	849.3	819.3	767.1	737.0	737.0
30°	5842.3	5639.9	4988.3	2460.9	895.2	771.8	752.8	707.0	635.8	596.3	596.3
32.5°	6149.2	5918.3	4963.0	1727.1	741.8	678.5	634.2	570.9	493.5	455.5	453.9
35°	6618.9	6348.5	4782.7	1132.4	654.8	589.9	518.8	441.3	373.3	341.6	340.0
37.5°	7251.5	6924.1	4377.8	809.8	586.8	507.7	422.3	336.9	286.3	265.7	264.1
40°	8072.4	7593.2	3798.9	656.4	523.5	428.6	325.8	261.0	226.2	210.3	211.9
42.5°	9057.7	8309.6	3104.6	566.2	461.8	352.7	254.6	205.6	183.5	172.4	169.2
45°	10152.1	9016.6	2377.1	504.5	400.1	284.7	199.3	162.9	145.5	139.2	139.2
47.5°	11355.7	9704.6	1739.7	450.7	333.7	219.8	159.7	132.9	118.6	113.9	112.3
50°	12448.6	10182.2	1254.2	393.8	273.6	174.0	129.7	110.7	101.2	94.9	94.9
52.5°	13359.6	10332.4	923.6	332.1	221.4	139.2	107.5	94.9	85.4	80.7	80.7
55°	14161.4	10270.8	686.4	273.6	178.7	113.9	91.7	80.7	72.8	68.0	68.0
57.5°	14930.1	10071.5	512.4	223.0	143.9	91.7	77.5	68.0	60.1	56.9	56.9
60°	15558.0	9739.4	381.2	180.3	115.5	74.3	64.8	55.4	49.0	44.3	44.3
62.5°	16067.2	9372.4	279.9	148.7	91.7	58.5	50.6	45.9	36.4	31.6	31.6
65°	16070.4	8763.5	210.3	123.4	71.2	45.9	38.0	36.4	23.7	19.0	17.4
67.5°	14907.9	7555.2	161.3	106.0	55.4	34.8	28.5	30.0	12.7	7.9	6.3
68°	14485.7	7248.4	151.8	104.4	52.2	33.2	26.9	30.0	11.1	6.3	4.7
70°	12212.9	5766.4	121.8	101.2	45.9	25.3	22.1	30.0	9.5	4.7	3.2
72.5°	7811.4	3346.6	90.1	80.7	34.8	19.0	14.2	26.9	9.5	3.2	1.6
75°	3324.5	1037.5	61.7	56.9	20.6	14.2	9.5	17.4	6.3	1.6	0.0
77.5°	700.6	234.1	36.4	34.8	14.2	9.5	6.3	4.7	1.6	0.0	0.0
80°	180.3	68.0	19.0	17.4	7.9	4.7	3.2	0.0	0.0	0.0	0.0
82.5°	56.9	26.9	11.1	7.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.5	15.8	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.8	4.7	1.6	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)