

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: P322172

Luminaire Tested: **GAN-SA8C-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322172
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-SA8C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA 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: 34546 lumens
Efficiency: N/A
Efficacy: 77.6 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): 445
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

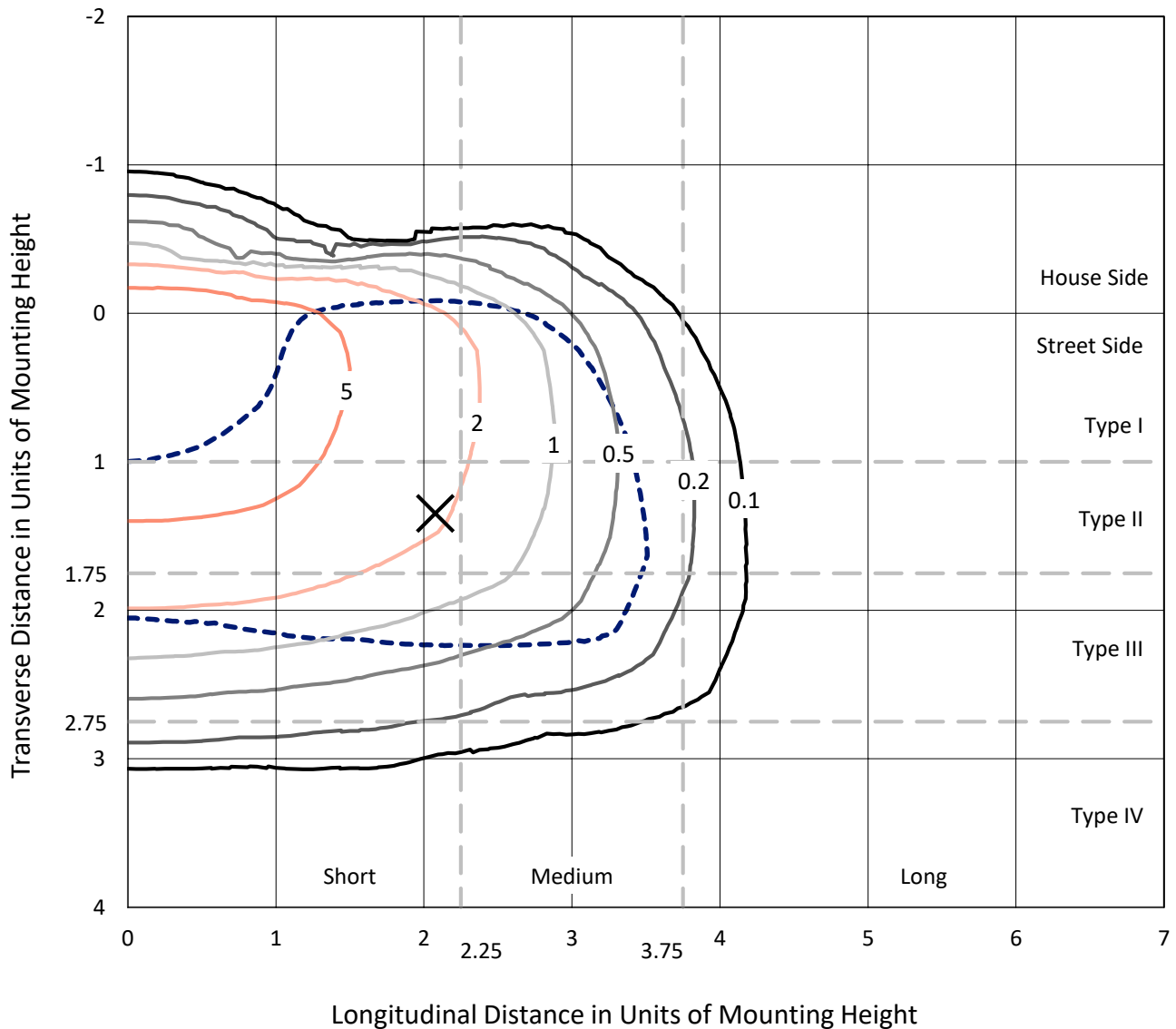


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Iso-Footcandle Lines of Horizontal Illumination

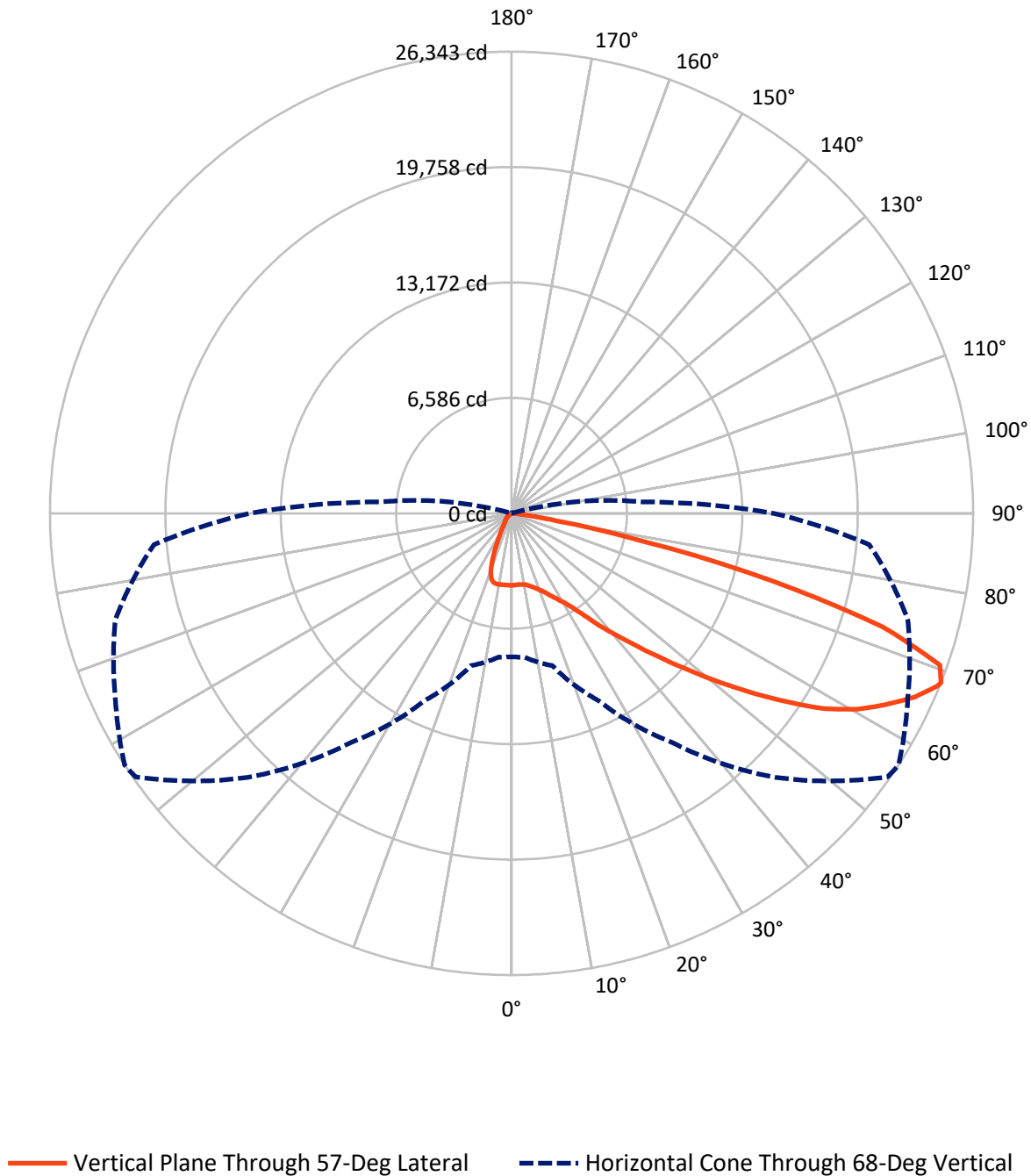
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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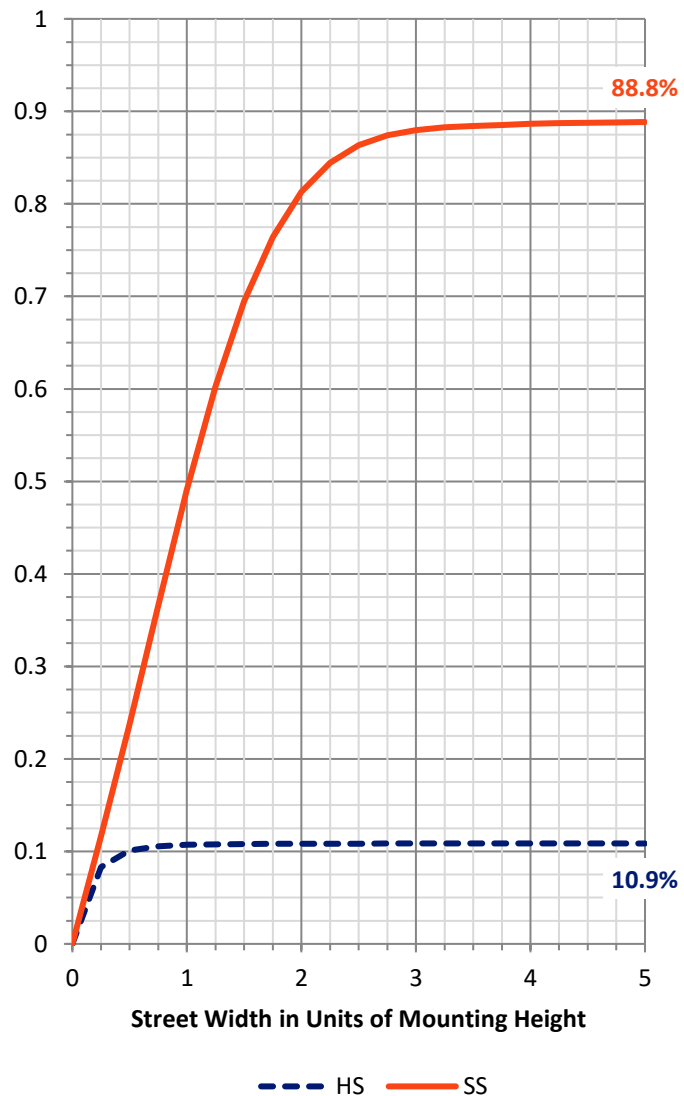
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3788.2	0.0	3788.2
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	30757.8	0.0	30757.8
	% Fixture	89.0	0.0	89.0
Total	Lumens	34546.0	0.0	34546.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.2	1.1
10°-20°	1064.5	3.1
20°-30°	1836.5	5.3
30°-40°	3169.6	9.2
40°-50°	5421.7	15.7
50°-60°	8674.2	25.1
60°-70°	10022.1	29.0
70°-80°	3829.6	11.1
80°-90°	143.6	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°	34546.0	100.0
0°-180°	34546.0	100.0

Coefficient of Utilization



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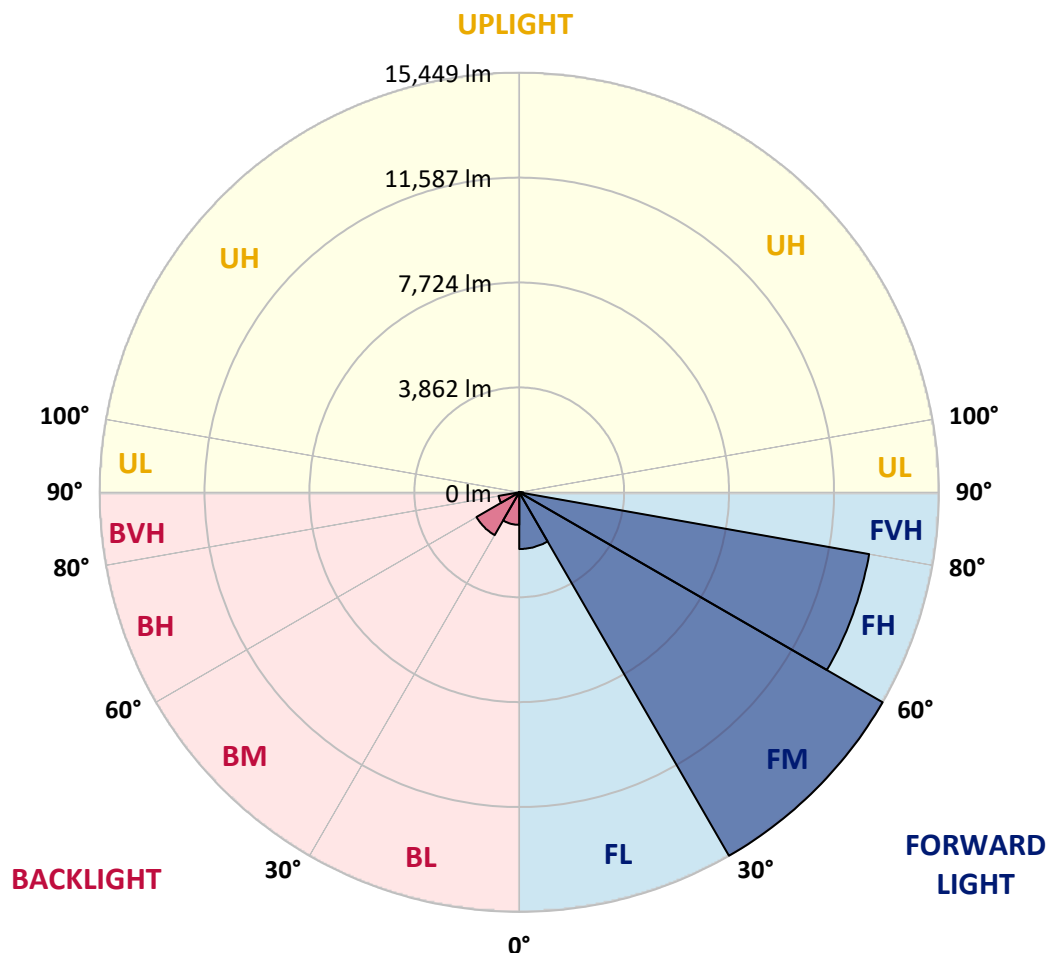
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2088.0	6.0			
FM	(30°-60°)	15448.7	44.7			
FH	(60°-80°)	13080.2	37.9			G5
FVH	(80°-90°)	140.9	0.4			G2/225
BL	(0°-30°)	1197.2	3.5	B3/2500		
BM	(30°-60°)	1816.9	5.3	B2/2500		
BH	(60°-80°)	771.5	2.2	B2/1000		G2/1000
BVH	(80°-90°)	2.6	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°	4105.0	4105.0	4105.0	4105.0	4105.0	4105.0	4105.0	4105.0	4105.0	4105.0	4105.0
2.5°	4008.6	4026.6	4039.6	4047.8	4057.6	4078.8	4085.4	4095.2	4100.1	4100.1	4111.5
5°	3850.2	3869.8	3897.5	3920.4	3966.1	4024.9	4067.4	4083.7	4113.1	4139.3	4154.0
7.5°	3703.1	3726.0	3758.7	3812.6	3891.0	3985.7	4073.9	4096.8	4154.0	4209.5	4237.3
10°	3608.4	3626.4	3668.8	3745.6	3848.5	3980.8	4105.0	4132.7	4230.8	4323.9	4376.1
12.5°	3575.7	3592.1	3636.2	3722.7	3850.2	4005.3	4176.8	4217.7	4361.4	4497.0	4570.5
15°	3623.1	3626.4	3673.7	3755.4	3881.2	4065.8	4296.1	4345.1	4526.4	4702.8	4794.3
17.5°	3806.0	3791.3	3815.8	3851.8	3951.4	4145.8	4421.9	4495.4	4737.1	4944.6	5031.2
20°	4263.4	4263.4	4207.9	4109.9	4111.5	4270.0	4591.8	4675.1	4970.7	5210.9	5289.3
22.5°	5045.9	5031.2	4920.1	4680.0	4459.4	4483.9	4799.2	4907.0	5251.7	5508.1	5534.3
25°	5986.8	5968.8	5797.3	5459.1	5076.9	4830.2	5080.2	5204.3	5586.6	5813.6	5759.7
27.5°	6983.2	6968.5	6798.6	6378.8	5834.8	5382.4	5415.0	5532.7	5928.0	6151.7	5980.2
30°	7948.6	7953.5	7785.2	7354.0	6738.2	6086.4	5839.7	5908.4	6259.6	6486.6	6241.6
32.5°	8866.6	8873.2	8727.8	8245.9	7670.9	6904.8	6427.8	6409.8	6645.1	6868.9	6587.9
35°	9685.0	9701.3	9601.7	9227.6	8618.3	7816.3	7190.6	7148.2	7192.3	7445.5	7118.8
37.5°	10474.0	10483.8	10408.6	10093.4	9583.7	8817.6	8154.4	8094.0	7999.2	8193.6	7819.5
40°	11338.1	11313.6	11227.0	10941.2	10503.4	9923.5	9190.0	9085.5	8920.5	9093.7	8740.8
42.5°	12141.8	12114.0	12128.7	11805.3	11436.1	11060.4	10397.2	10217.5	10121.1	10320.4	9871.2
45°	13146.4	13131.7	13180.7	12899.7	12600.8	12328.0	11780.8	11584.8	11542.3	11775.9	11238.5
47.5°	14137.9	14173.8	14325.8	14206.5	14085.6	13845.5	13246.0	13157.8	13183.9	13466.5	12680.8
50°	14964.5	15006.9	15423.5	15560.7	15735.5	15595.0	14993.9	14940.0	15042.9	15297.7	14232.7
52.5°	15562.3	15648.9	16166.7	16798.9	17435.9	17530.7	16931.2	16882.2	17021.0	17060.2	15431.6
55°	15977.2	16054.0	16640.4	17796.9	19093.9	19502.3	19129.9	18940.4	18914.3	18527.1	16692.7
57.5°	16050.7	16042.6	16885.4	18442.2	20394.2	21447.8	21212.6	21026.4	20490.6	19882.9	18138.3
60°	15635.8	15683.2	16661.7	18666.0	21210.9	22919.6	22937.6	22695.8	21861.1	21201.1	19539.9
62.5°	14358.4	14551.2	15539.4	18079.5	21201.1	23512.5	24201.9	24017.3	23019.2	22280.9	20961.0
65°	12287.2	12355.8	13298.3	16070.3	19768.6	23264.3	25340.4	25271.8	24063.0	23329.6	21691.2
67.5°	8972.8	8824.1	9814.0	12654.7	16736.8	21817.0	26157.2	26243.7	24868.3	23545.2	20913.6
68°	8188.7	8232.8	9003.8	11810.2	15942.9	21305.7	26211.1	26343.4	24948.4	23404.7	20488.9
70°	4880.9	4965.8	5653.5	8131.5	12128.7	18412.8	25629.6	25931.7	24471.4	21955.8	17721.8
72.5°	1246.4	1347.6	1997.8	3639.4	6927.7	12973.2	21635.7	22146.9	21246.9	17811.6	11963.7
75°	512.9	539.1	713.8	1199.0	2580.9	5844.6	14260.4	15354.9	14729.2	10663.5	5406.9
77.5°	354.5	372.4	459.0	664.8	1117.3	1981.4	6991.4	7782.0	7011.0	3639.4	1179.4
80°	254.8	269.5	328.3	442.7	642.0	707.3	2278.7	2634.8	2092.5	798.8	292.4
82.5°	151.9	163.3	245.0	315.3	390.4	338.1	566.8	643.6	606.0	396.9	130.7
85°	75.1	88.2	165.0	225.4	210.7	142.1	173.2	192.8	238.5	241.8	70.2
87.5°	4.9	9.8	96.4	135.6	58.8	32.7	50.6	62.1	84.9	119.2	29.4
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°	4105.0	4105.0	4105.0	4105.0	4105.0	4105.0	4105.0	4105.0	4105.0	4105.0	4105.0
2.5°	4116.4	4118.0	4106.6	4101.7	4105.0	4085.4	4077.2	4080.5	4080.5	4085.4	4077.2
5°	4157.2	4157.2	4137.6	4111.5	4096.8	4059.2	4034.7	4028.2	4023.3	4020.0	4013.5
7.5°	4245.5	4235.7	4201.4	4144.2	4095.2	4013.5	3951.4	3918.8	3902.4	3895.9	3891.0
10°	4387.6	4369.6	4312.4	4206.3	4093.5	3948.2	3812.6	3716.2	3636.2	3603.5	3583.9
12.5°	4578.7	4552.6	4456.2	4279.8	4082.1	3814.2	3520.2	3237.6	2974.6	2866.8	2812.9
15°	4799.2	4761.6	4609.7	4341.8	4015.1	3512.0	2873.3	2378.4	2014.1	1876.9	1818.1
17.5°	5023.0	4974.0	4743.7	4381.0	3814.2	2886.4	2015.7	1522.4	1279.0	1213.7	1190.8
20°	5248.4	5176.5	4859.7	4351.6	3360.1	2081.1	1329.7	1112.4	1042.2	1022.6	1016.0
22.5°	5462.4	5351.3	4964.2	4237.3	2661.0	1396.6	1052.0	983.4	960.5	949.1	945.8
25°	5648.6	5493.4	5055.7	3884.5	1883.4	1055.2	947.4	924.6	895.2	873.9	875.6
27.5°	5823.4	5635.6	5111.2	3302.9	1256.2	901.7	877.2	846.2	792.2	761.2	761.2
30°	6034.1	5825.0	5152.0	2541.7	924.6	797.1	777.5	730.2	656.7	615.8	615.8
32.5°	6351.0	6112.5	5125.9	1783.8	766.1	700.8	655.0	589.7	509.7	470.4	468.8
35°	6836.2	6556.9	4939.7	1169.6	676.3	609.3	535.8	455.7	385.5	352.8	351.2
37.5°	7489.6	7151.4	4521.5	836.3	606.0	524.4	436.1	347.9	295.7	274.4	272.8
40°	8337.4	7842.4	3923.7	677.9	540.7	442.7	336.5	269.5	233.6	217.3	218.9
42.5°	9355.0	8582.4	3206.6	584.8	477.0	364.3	263.0	212.4	189.5	178.1	174.8
45°	10485.4	9312.6	2455.1	521.1	413.3	294.0	205.8	168.3	150.3	143.7	143.7
47.5°	11728.5	10023.1	1796.8	465.5	344.7	227.1	165.0	137.2	122.5	117.6	116.0
50°	12857.2	10516.4	1295.4	406.7	282.6	179.7	133.9	114.3	104.5	98.0	98.0
52.5°	13798.1	10671.6	954.0	343.0	228.7	143.7	111.1	98.0	88.2	83.3	83.3
55°	14626.3	10607.9	708.9	282.6	184.6	117.6	94.7	83.3	75.1	70.2	70.2
57.5°	15420.2	10402.1	529.3	230.3	148.6	94.7	80.0	70.2	62.1	58.8	58.8
60°	16068.7	10059.1	393.7	186.2	119.2	76.8	67.0	57.2	50.6	45.7	45.7
62.5°	16594.7	9680.1	289.1	153.5	94.7	60.4	52.3	47.4	37.6	32.7	32.7
65°	16598.0	9051.2	217.3	127.4	73.5	47.4	39.2	37.6	24.5	19.6	18.0
67.5°	15397.3	7803.2	166.6	109.4	57.2	35.9	29.4	31.0	13.1	8.2	6.5
68°	14961.2	7486.3	156.8	107.8	53.9	34.3	27.8	31.0	11.4	6.5	4.9
70°	12613.9	5955.7	125.8	104.5	47.4	26.1	22.9	31.0	9.8	4.9	3.3
72.5°	8067.8	3456.5	93.1	83.3	35.9	19.6	14.7	27.8	9.8	3.3	1.6
75°	3433.6	1071.6	63.7	58.8	21.2	14.7	9.8	18.0	6.5	1.6	0.0
77.5°	723.6	241.8	37.6	35.9	14.7	9.8	6.5	4.9	1.6	0.0	0.0
80°	186.2	70.2	19.6	18.0	8.2	4.9	3.3	0.0	0.0	0.0	0.0
82.5°	58.8	27.8	11.4	8.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.4	16.3	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.3	4.9	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)