

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: P322339

Luminaire Tested: **GAN-SA5D-760-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322339
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-SA5D-760-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 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: 28259 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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

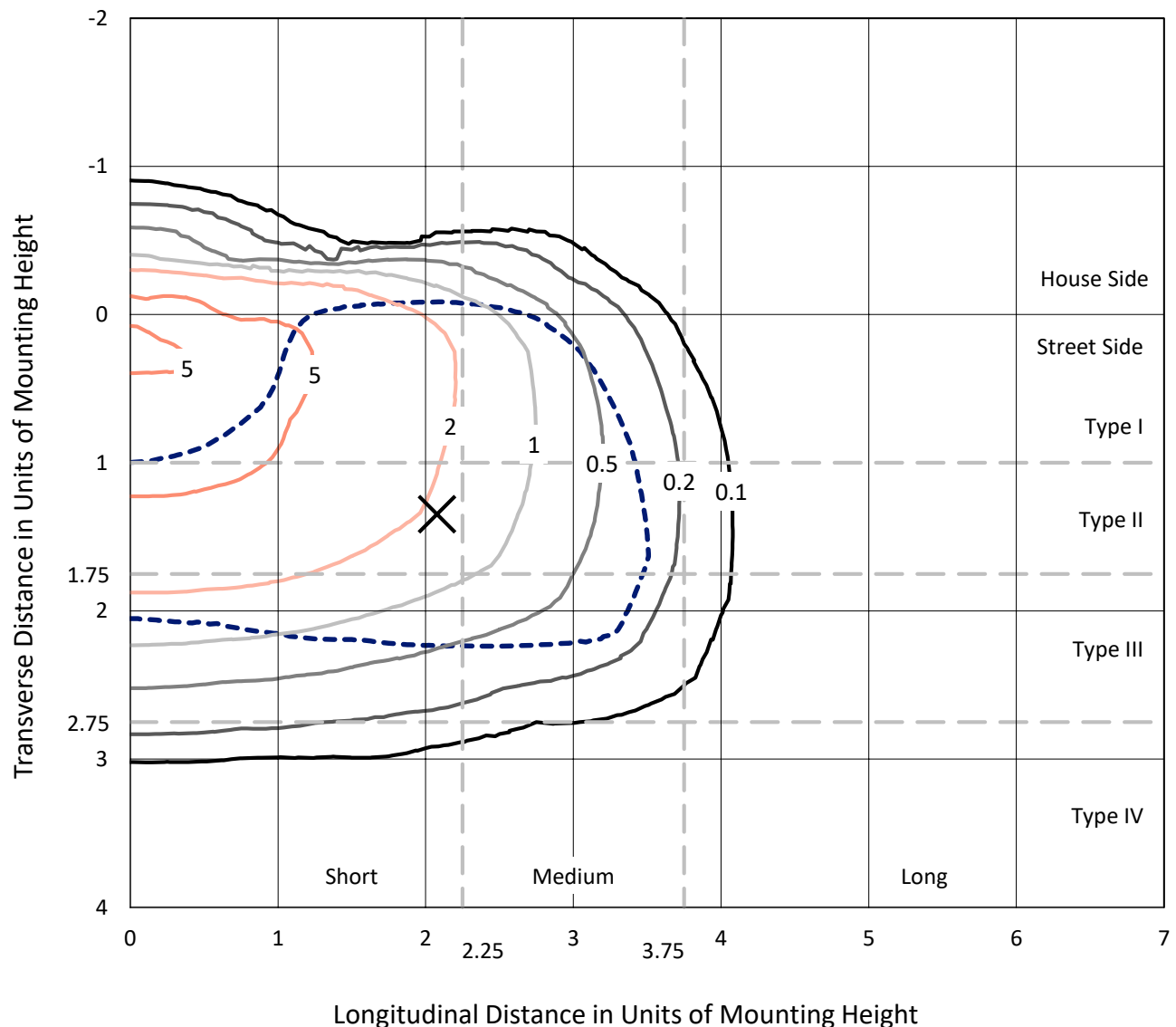


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Iso-Footcandle Lines of Horizontal Illumination

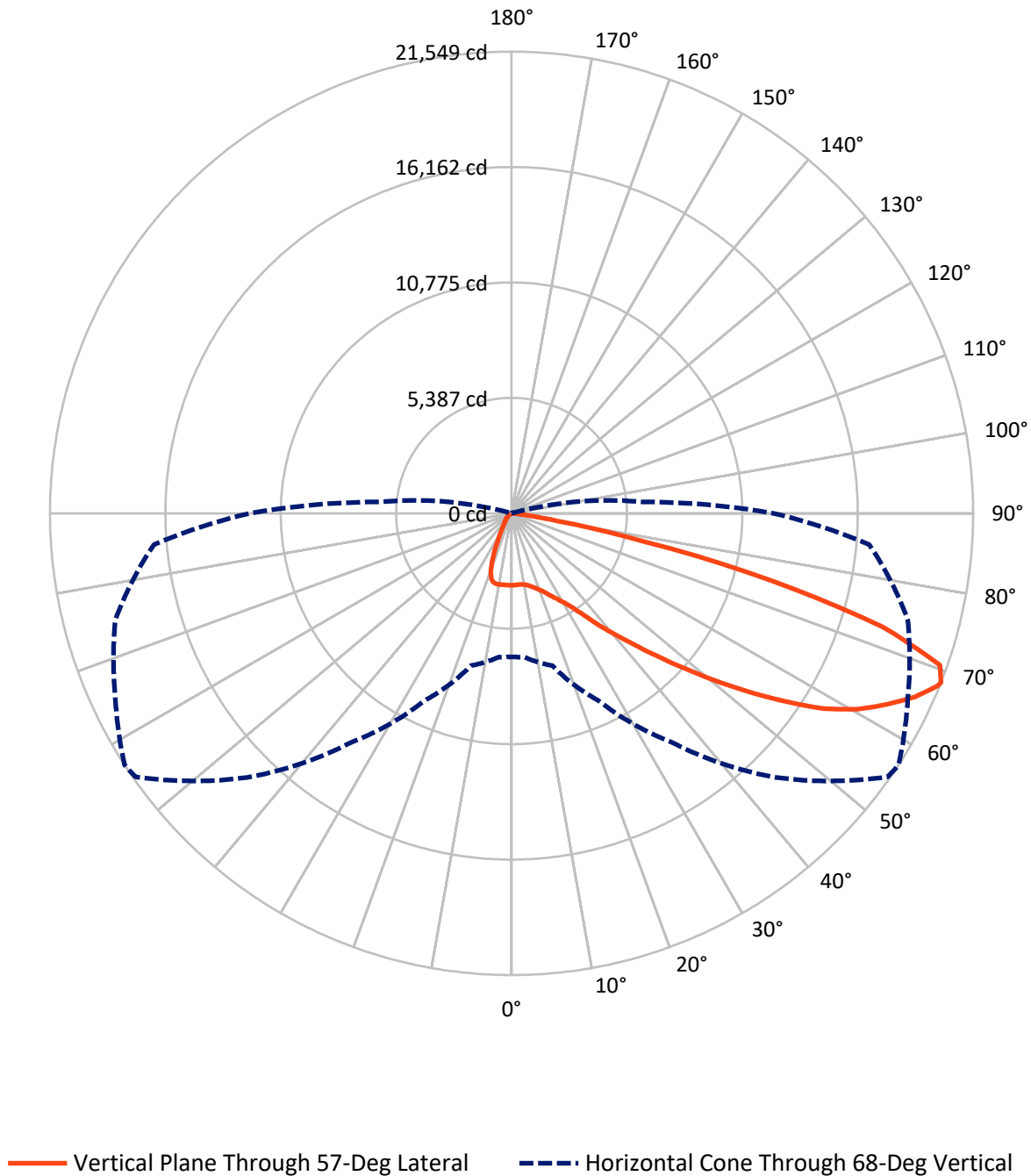
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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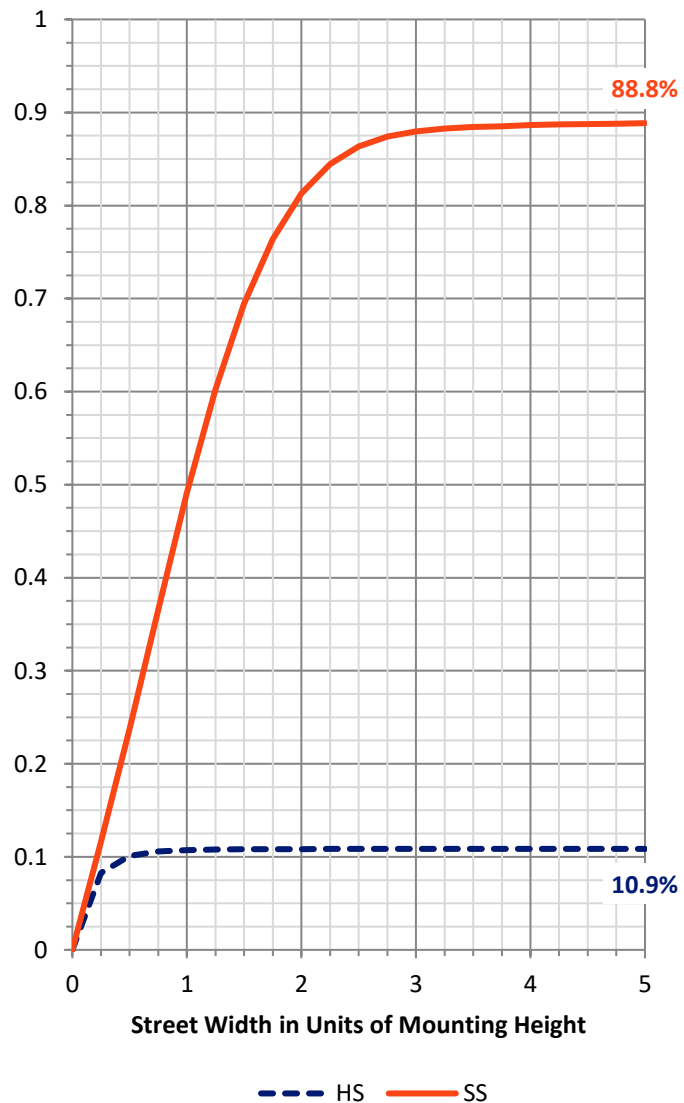
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3098.8	0.0	3098.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	25160.2	0.0	25160.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	28259.0	0.0	28259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.3	1.1
10°-20°	870.8	3.1
20°-30°	1502.2	5.3
30°-40°	2592.8	9.2
40°-50°	4435.0	15.7
50°-60°	7095.6	25.1
60°-70°	8198.2	29.0
70°-80°	3132.6	11.1
80°-90°	117.4	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°	28259.0	100.0
0°-180°	28259.0	100.0

Coefficient of Utilization



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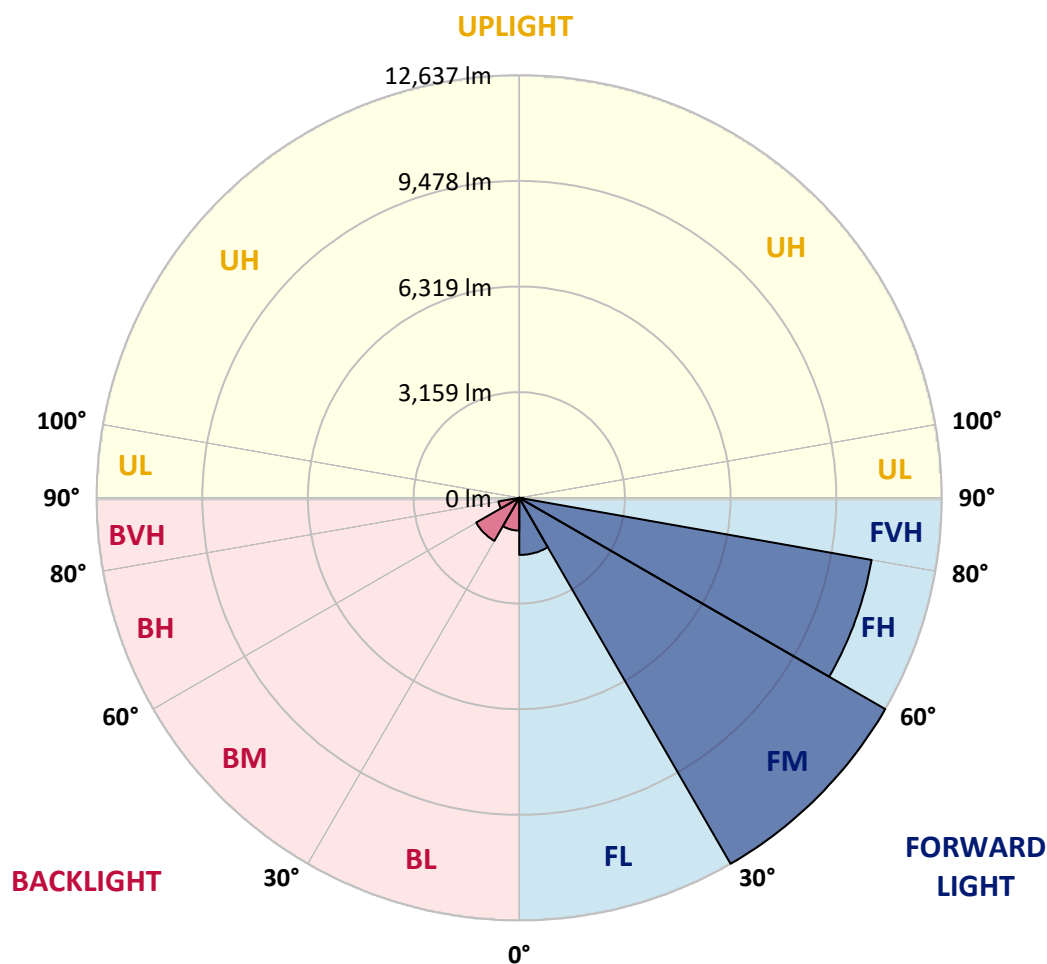
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1708.0	6.0			
FM	(30°-60°)	12637.2	44.7			
FH	(60°-80°)	10699.8	37.9			G4/12000
FVH	(80°-90°)	115.3	0.4			G2/225
BL	(0°-30°)	979.3	3.5	B2/1000		
BM	(30°-60°)	1486.2	5.3	B2/2500		
BH	(60°-80°)	631.1	2.2	B2/1000		G2/1000
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3357.9	3357.9	3357.9	3357.9	3357.9	3357.9	3357.9	3357.9	3357.9	3357.9	3357.9
2.5°	3279.1	3293.8	3304.5	3311.1	3319.2	3336.5	3341.9	3349.9	3353.9	3353.9	3363.3
5°	3149.5	3165.5	3188.2	3206.9	3244.3	3292.4	3327.2	3340.5	3364.6	3386.0	3398.0
7.5°	3029.2	3047.9	3074.6	3118.7	3182.9	3260.4	3332.5	3351.2	3398.0	3443.4	3466.1
10°	2951.7	2966.4	3001.1	3063.9	3148.1	3256.4	3357.9	3380.6	3460.8	3537.0	3579.7
12.5°	2925.0	2938.3	2974.4	3045.2	3149.5	3276.4	3416.7	3450.1	3567.7	3678.6	3738.7
15°	2963.7	2966.4	3005.2	3072.0	3174.9	3325.8	3514.3	3554.3	3702.7	3847.0	3921.8
17.5°	3113.4	3101.4	3121.4	3150.8	3232.3	3391.3	3617.1	3677.3	3875.0	4044.7	4115.5
20°	3487.5	3487.5	3442.1	3361.9	3363.3	3492.9	3756.1	3824.3	4066.1	4262.5	4326.7
22.5°	4127.6	4115.5	4024.7	3828.3	3647.9	3667.9	3925.8	4014.0	4295.9	4505.7	4527.1
25°	4897.2	4882.5	4742.2	4465.6	4153.0	3951.2	4155.6	4257.2	4569.9	4755.6	4711.5
27.5°	5712.3	5700.3	5561.3	5217.9	4773.0	4402.8	4429.6	4525.8	4849.1	5032.2	4891.9
30°	6502.0	6506.0	6368.4	6015.7	5511.9	4978.7	4777.0	4833.1	5120.4	5306.1	5105.7
32.5°	7253.0	7258.3	7139.4	6745.2	6274.9	5648.2	5258.0	5243.3	5435.7	5618.8	5389.0
35°	7922.4	7935.8	7854.3	7548.3	7049.9	6393.8	5882.0	5847.3	5883.4	6090.5	5823.2
37.5°	8567.8	8575.8	8514.4	8256.5	7839.6	7212.9	6670.4	6621.0	6543.5	6702.5	6396.5
40°	9274.7	9254.6	9183.8	8950.0	8591.9	8117.5	7517.6	7432.0	7297.1	7438.7	7150.1
42.5°	9932.1	9909.4	9921.4	9656.8	9354.9	9047.5	8505.0	8358.0	8279.2	8442.2	8074.8
45°	10753.9	10741.9	10781.9	10552.1	10307.6	10084.4	9636.8	9476.5	9441.7	9632.8	9193.2
47.5°	11565.0	11594.4	11718.6	11621.1	11522.2	11325.8	10835.4	10763.2	10784.6	11015.8	10373.1
50°	12241.1	12275.8	12616.6	12728.8	12871.8	12756.9	12265.1	12221.0	12305.2	12513.7	11642.5
52.5°	12730.1	12801.0	13224.5	13741.7	14262.8	14340.3	13849.9	13809.8	13923.4	13955.5	12623.2
55°	13069.5	13132.3	13612.0	14558.1	15619.0	15953.1	15648.4	15493.4	15472.1	15155.4	13654.8
57.5°	13129.7	13123.0	13812.5	15085.9	16682.7	17544.5	17352.1	17199.8	16761.5	16264.4	14837.4
60°	12790.3	12829.0	13629.4	15269.0	17350.8	18748.5	18763.2	18565.4	17882.6	17342.8	15983.8
62.5°	11745.4	11903.0	12711.4	14789.3	17342.8	19233.5	19797.4	19646.4	18830.0	18226.0	17146.3
65°	10051.0	10107.1	10878.1	13145.7	16170.9	19030.4	20728.7	20672.6	19683.8	19083.9	17743.6
67.5°	7339.8	7218.2	8028.0	10351.7	13690.9	17846.5	21396.8	21467.7	20342.6	19260.2	17107.6
68°	6698.5	6734.5	7365.2	9660.9	13041.5	17428.3	21440.9	21549.2	20408.0	19145.3	16760.2
70°	3992.6	4062.1	4624.6	6651.7	9921.4	15061.8	20965.3	21212.5	20017.9	17960.1	14496.6
72.5°	1019.5	1102.4	1634.2	2977.1	5666.9	10612.2	17698.2	18116.4	17380.2	14570.1	9786.5
75°	419.6	441.0	583.9	980.8	2111.2	4781.0	11665.2	12560.4	12048.7	8722.8	4422.9
77.5°	290.0	304.7	375.5	543.8	914.0	1620.8	5719.0	6365.7	5735.0	2977.1	964.7
80°	208.4	220.5	268.6	362.1	525.1	578.6	1864.0	2155.3	1711.7	653.4	239.2
82.5°	124.3	133.6	200.4	257.9	319.4	276.6	463.7	526.5	495.7	324.7	106.9
85°	61.5	72.2	135.0	184.4	172.4	116.3	141.6	157.7	195.1	197.8	57.5
87.5°	4.0	8.0	78.8	110.9	48.1	26.7	41.4	50.8	69.5	97.5	24.1
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°	3357.9	3357.9	3357.9	3357.9	3357.9	3357.9	3357.9	3357.9	3357.9	3357.9	3357.9
2.5°	3367.3	3368.6	3359.3	3355.2	3357.9	3341.9	3335.2	3337.9	3337.9	3341.9	3335.2
5°	3400.7	3400.7	3384.6	3363.3	3351.2	3320.5	3300.5	3295.1	3291.1	3288.4	3283.1
7.5°	3472.8	3464.8	3436.8	3390.0	3349.9	3283.1	3232.3	3205.6	3192.2	3186.9	3182.9
10°	3589.1	3574.4	3527.6	3440.8	3348.6	3229.6	3118.7	3039.9	2974.4	2947.7	2931.7
12.5°	3745.4	3724.0	3645.2	3500.9	3339.2	3120.1	2879.5	2648.4	2433.3	2345.1	2301.0
15°	3925.8	3895.1	3770.8	3551.7	3284.4	2872.9	2350.4	1945.5	1647.6	1535.3	1487.2
17.5°	4108.9	4068.8	3880.4	3583.7	3120.1	2361.1	1648.9	1245.4	1046.3	992.8	974.1
20°	4293.3	4234.5	3975.2	3559.7	2748.6	1702.3	1087.7	910.0	852.5	836.5	831.1
22.5°	4468.3	4377.4	4060.8	3466.1	2176.7	1142.5	860.5	804.4	785.7	776.3	773.7
25°	4620.6	4493.7	4135.6	3177.5	1540.7	863.2	775.0	756.3	732.2	714.9	716.2
27.5°	4763.6	4609.9	4181.0	2701.8	1027.6	737.6	717.5	692.2	648.1	622.7	622.7
30°	4936.0	4765.0	4214.4	2079.2	756.3	652.1	636.0	597.3	537.2	503.8	503.8
32.5°	5195.2	5000.1	4193.1	1459.1	626.7	573.2	535.8	482.4	416.9	384.8	383.5
35°	5592.1	5363.6	4040.7	956.7	553.2	498.4	438.3	372.8	315.3	288.6	287.3
37.5°	6126.6	5850.0	3698.6	684.1	495.7	428.9	356.8	284.6	241.9	224.5	223.1
40°	6820.1	6415.2	3209.6	554.5	442.3	362.1	275.3	220.5	191.1	177.7	179.1
42.5°	7652.5	7020.5	2623.0	478.4	390.2	298.0	215.1	173.7	155.0	145.6	143.0
45°	8577.2	7617.8	2008.3	426.3	338.1	240.5	168.4	137.6	122.9	117.6	117.6
47.5°	9594.0	8199.0	1469.8	380.8	281.9	185.7	135.0	112.2	100.2	96.2	94.9
50°	10517.4	8602.6	1059.6	332.7	231.2	147.0	109.6	93.5	85.5	80.2	80.2
52.5°	11287.0	8729.5	780.4	280.6	187.1	117.6	90.9	80.2	72.2	68.1	68.1
55°	11964.5	8677.4	579.9	231.2	151.0	96.2	77.5	68.1	61.5	57.5	57.5
57.5°	12613.9	8509.0	432.9	188.4	121.6	77.5	65.5	57.5	50.8	48.1	48.1
60°	13144.4	8228.4	322.0	152.3	97.5	62.8	54.8	46.8	41.4	37.4	37.4
62.5°	13574.6	7918.4	236.5	125.6	77.5	49.4	42.8	38.8	30.7	26.7	26.7
65°	13577.3	7404.0	177.7	104.2	60.1	38.8	32.1	30.7	20.0	16.0	14.7
67.5°	12595.2	6383.1	136.3	89.5	46.8	29.4	24.1	25.4	10.7	6.7	5.3
68°	12238.4	6123.9	128.3	88.2	44.1	28.1	22.7	25.4	9.4	5.3	4.0
70°	10318.3	4871.8	102.9	85.5	38.8	21.4	18.7	25.4	8.0	4.0	2.7
72.5°	6599.6	2827.4	76.2	68.1	29.4	16.0	12.0	22.7	8.0	2.7	1.3
75°	2808.7	876.6	52.1	48.1	17.4	12.0	8.0	14.7	5.3	1.3	0.0
77.5°	591.9	197.8	30.7	29.4	12.0	8.0	5.3	4.0	1.3	0.0	0.0
80°	152.3	57.5	16.0	14.7	6.7	4.0	2.7	0.0	0.0	0.0	0.0
82.5°	48.1	22.7	9.4	6.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.1	13.4	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.4	4.0	1.3	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)