

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: P192792

Luminaire Tested: **GAN-AF-04-LED-U-SL2-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-SL2-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19235.1 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 225
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: 28.75 FT



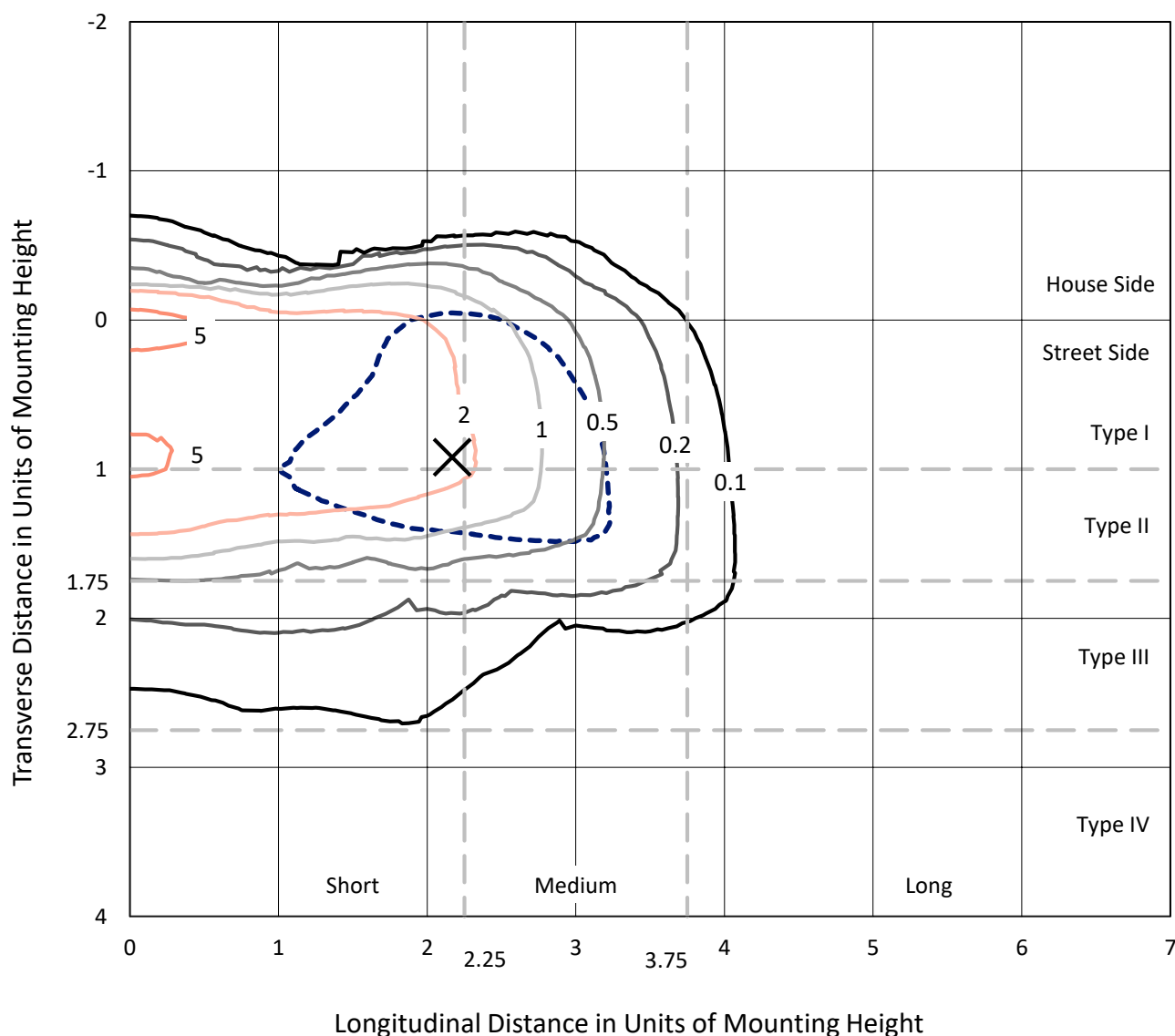
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

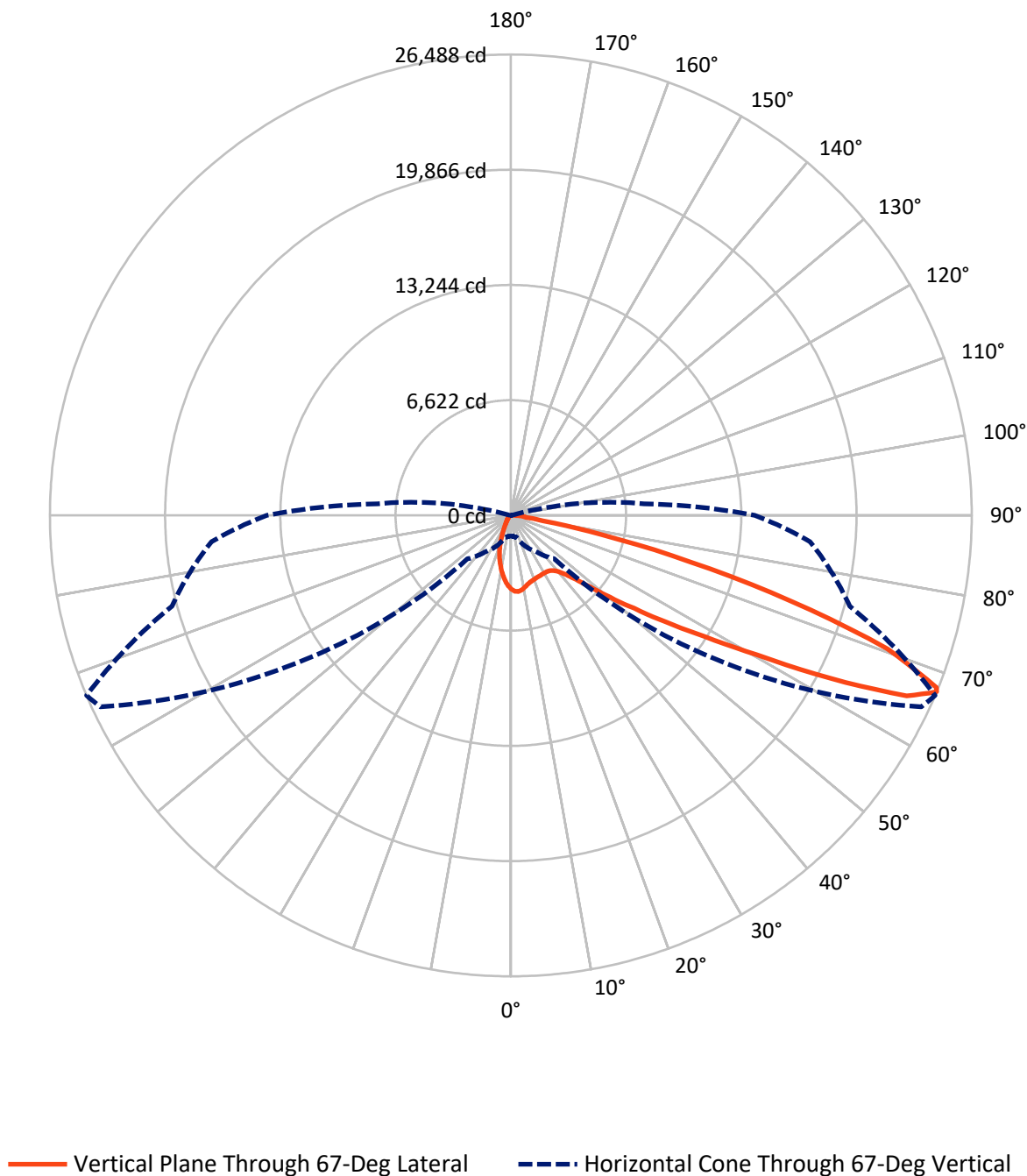


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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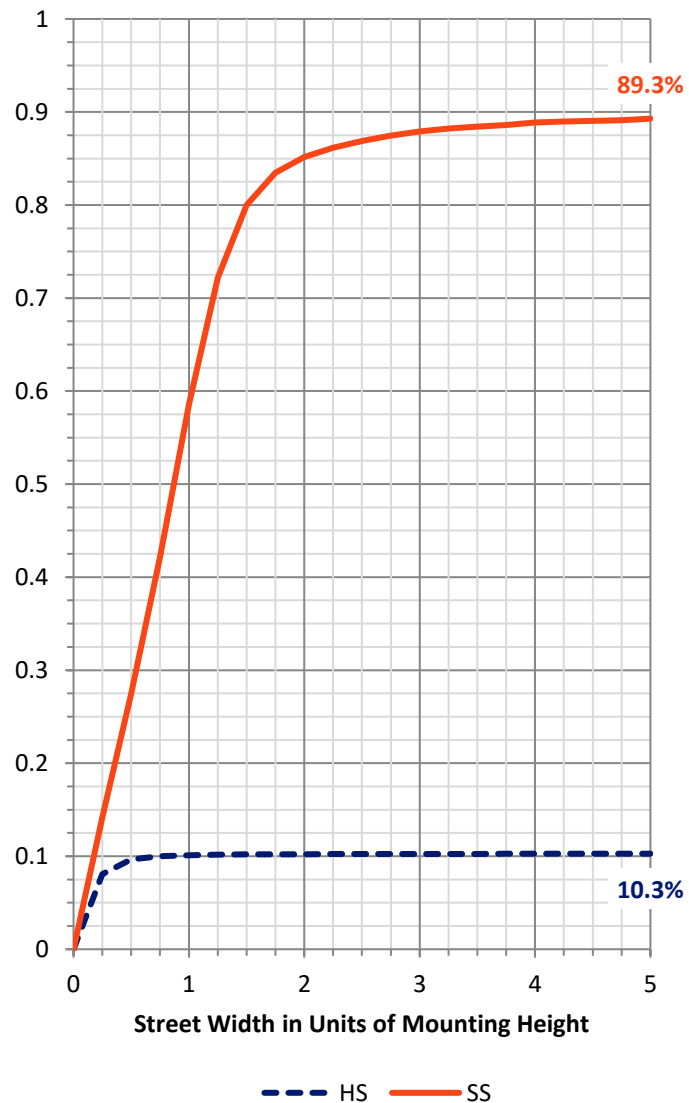
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1997.2	0.0	1997.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	17237.9	0.0	17237.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	19235.1	0.0	19235.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.2	1.8
10°-20°	734.6	3.8
20°-30°	1068.1	5.6
30°-40°	1666.3	8.7
40°-50°	2951.8	15.3
50°-60°	4670.9	24.3
60°-70°	5349.9	27.8
70°-80°	2219.1	11.5
80°-90°	229.2	1.2
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°	19235.1	100.0
0°-180°	19235.1	100.0

Coefficient of Utilization



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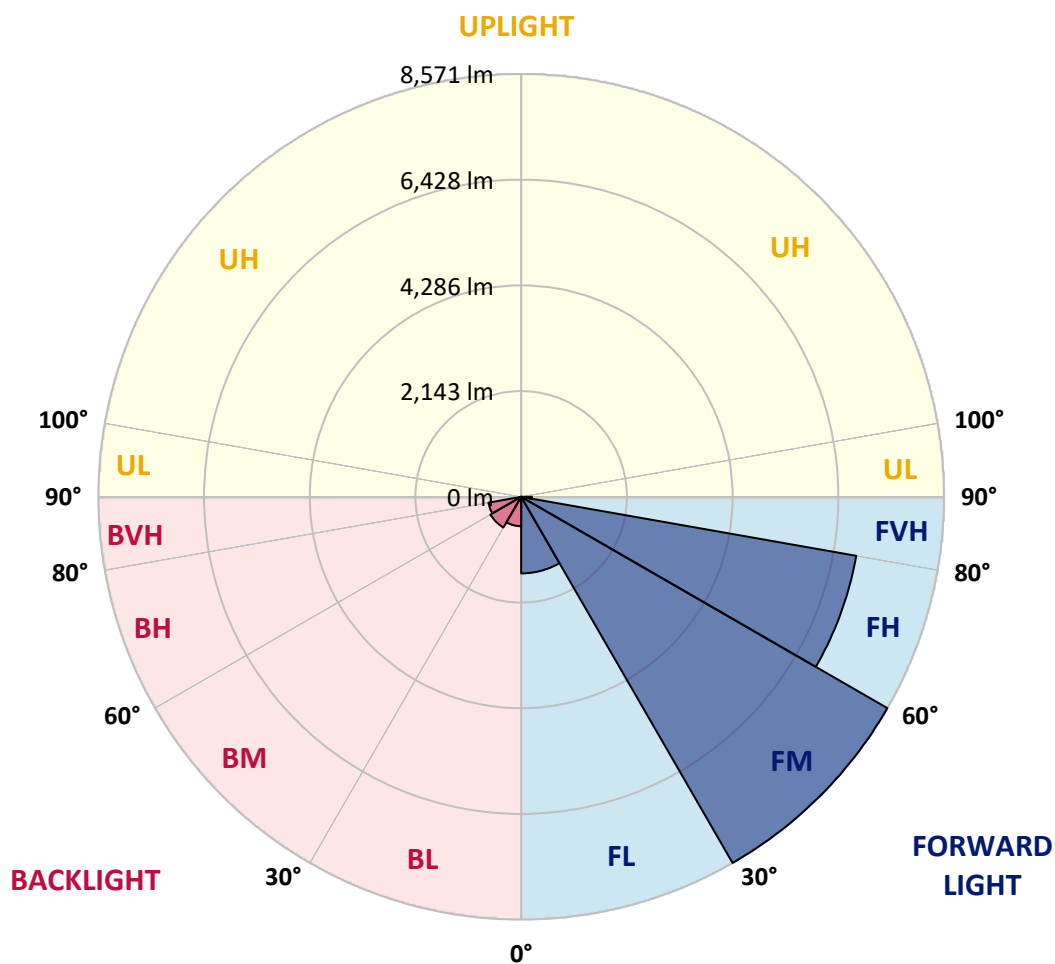
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1552.0	8.1			
FM	(30°-60°)	8571.2	44.6			
FH	(60°-80°)	6895.8	35.9			G3/7500
FVH	(80°-90°)	218.9	1.1			G2/225
BL	(0°-30°)	596.0	3.1	B2/1000		
BM	(30°-60°)	717.8	3.7	B1/1000		
BH	(60°-80°)	673.1	3.5	B2/1000		G2/1000
BVH	(80°-90°)	10.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1
2.5°	4385.6	4394.6	4393.6	4400.2	4415.9	4417.1	4401.4	4371.0	4364.4	4325.0	4256.6
5°	4044.6	4070.4	4086.1	4150.1	4221.9	4308.2	4373.3	4396.9	4393.6	4365.5	4262.2
7.5°	3655.3	3681.1	3699.1	3774.3	3869.5	4017.7	4187.1	4326.2	4338.5	4368.8	4257.8
10°	3396.1	3400.5	3425.3	3497.1	3597.0	3748.3	3950.4	4193.8	4230.8	4341.9	4246.6
12.5°	3182.9	3186.3	3218.9	3296.3	3402.9	3555.4	3767.5	4049.0	4106.3	4308.2	4244.2
15°	3031.5	3043.9	3073.0	3153.8	3267.1	3418.5	3636.1	3942.5	4010.9	4295.8	4264.5
17.5°	2981.0	2994.5	3003.4	3061.8	3165.0	3313.1	3536.4	3872.9	3950.4	4302.6	4303.7
20°	3033.7	3043.9	3023.6	3038.2	3102.2	3234.5	3452.1	3813.4	3905.5	4310.5	4354.2
22.5°	3230.0	3234.5	3179.6	3115.6	3104.4	3177.4	3386.1	3766.3	3865.0	4331.8	4413.7
25°	3566.7	3558.8	3469.0	3331.0	3200.9	3167.2	3346.7	3737.2	3844.9	4354.2	4475.4
27.5°	3972.7	3984.0	3860.5	3659.7	3411.8	3234.5	3341.1	3724.8	3835.9	4370.0	4529.3
30°	4466.4	4482.2	4340.8	4088.4	3732.8	3400.5	3392.7	3722.6	3830.3	4359.9	4533.7
32.5°	4970.2	4989.3	4878.2	4618.0	4161.2	3678.9	3509.4	3747.3	3841.5	4325.0	4507.9
35°	5497.5	5524.4	5450.4	5227.1	4742.4	4080.5	3714.7	3822.4	3894.2	4321.8	4482.2
37.5°	6225.6	6250.2	6111.2	5874.5	5445.9	4619.1	4044.6	3963.8	4018.8	4375.5	4488.9
40°	7312.8	7309.5	6950.4	6588.0	6218.9	5303.5	4507.9	4219.6	4247.7	4538.2	4571.9
42.5°	8497.5	8491.9	7961.2	7410.4	7077.2	6146.0	5117.1	4661.6	4642.5	4837.8	4787.3
45°	9410.8	9409.7	8976.6	8356.1	8110.6	7113.1	5904.8	5276.4	5247.2	5324.8	5184.5
47.5°	9800.1	9806.9	9589.2	9152.7	9256.0	8421.2	6897.6	6167.2	6123.6	6092.1	5878.9
50°	9497.3	9510.7	9528.6	9443.4	10096.3	10179.3	8229.4	7422.7	7401.4	7261.2	6928.0
52.5°	8507.7	8576.1	8787.0	9057.4	10388.1	11866.7	10317.4	8982.2	8867.8	8718.6	8351.7
55°	6840.5	6915.7	7316.1	7972.5	9953.8	12975.2	13243.4	10992.8	10802.0	10356.5	9827.1
57.5°	4527.0	4643.7	5224.9	6059.6	8692.7	13153.6	16162.6	13783.0	13118.9	11899.3	11302.5
60°	2494.1	2606.3	3236.8	3993.0	6278.4	12271.8	18126.0	17415.8	16242.3	13623.6	13094.1
62.5°	1535.9	1596.5	2062.2	2765.6	3765.2	9685.8	18532.2	21981.0	20622.3	15844.0	15258.4
65°	1222.9	1248.8	1476.4	2260.7	2699.4	5761.1	17220.7	25461.2	25008.1	18532.2	17196.0
67°	1187.0	1197.2	1304.8	1941.0	2544.5	3532.0	14427.0	26027.8	26487.8	20159.0	17256.5
67.5°	1194.9	1206.1	1308.2	1852.3	2540.1	3245.8	13464.3	25804.6	26385.8	20288.1	16988.4
70°	1152.2	1187.0	1497.8	1851.2	2415.5	2697.2	8063.4	22357.9	22962.7	18850.8	14414.7
72.5°	408.4	410.6	647.4	1497.8	2626.5	2726.3	4049.0	16390.4	16838.1	14420.2	10392.5
75°	242.3	206.4	215.5	426.3	2509.8	2647.8	2335.9	10473.3	10640.4	8263.1	5263.0
77.5°	167.1	145.9	150.3	188.5	955.9	2610.8	1855.7	5461.6	5283.2	2898.0	1120.8
80°	95.4	84.1	89.7	164.9	347.8	2435.7	1750.3	2214.6	1888.2	491.4	309.6
82.5°	50.5	42.6	51.6	135.7	242.3	1517.9	1753.6	1070.3	848.2	166.1	210.9
85°	17.9	14.5	24.7	93.1	161.6	465.6	1625.7	899.7	706.8	80.8	160.4
87.5°	3.4	3.4	10.1	38.1	65.1	142.5	961.5	534.1	358.0	48.3	110.0
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°	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1
2.5°	4228.6	4180.4	4115.2	4035.6	3941.4	3858.4	3796.6	3732.8	3719.1	3696.8	3693.4
5°	4200.6	4117.6	3956.0	3770.9	3573.4	3395.0	3250.3	3121.2	3064.0	3014.7	3009.0
7.5°	4159.1	4034.5	3759.6	3461.3	3152.6	2872.2	2634.3	2466.0	2311.2	2237.2	2225.9
10°	4110.8	3932.3	3538.6	3124.6	2698.2	2302.2	1948.8	1652.6	1473.2	1366.5	1353.0
12.5°	4065.9	3832.5	3313.1	2775.6	2209.1	1679.6	1225.2	942.5	753.9	677.6	668.6
15°	4044.6	3751.8	3102.2	2418.9	1697.5	1069.2	669.8	518.3	456.6	438.6	437.6
17.5°	4042.4	3683.3	2895.7	2049.8	1189.3	621.5	436.4	398.2	385.9	381.5	381.5
20°	4041.2	3618.2	2689.3	1667.2	755.1	414.0	363.5	354.5	345.6	339.9	339.9
22.5°	4053.5	3559.8	2473.8	1276.8	475.8	335.4	319.8	310.8	299.6	291.7	290.6
25°	4065.9	3515.0	2254.0	908.8	344.3	291.7	276.0	263.7	247.9	237.8	236.8
27.5°	4068.2	3458.9	2018.3	608.1	288.3	254.7	234.5	215.5	197.4	187.4	186.3
30°	4034.5	3364.6	1757.0	410.6	254.7	221.0	194.1	173.9	157.2	149.2	149.2
32.5°	3968.3	3248.1	1469.7	309.6	226.6	189.6	160.4	141.4	130.1	126.7	125.6
35°	3908.9	3122.3	1174.6	262.6	203.1	160.4	131.2	118.9	112.2	111.1	110.0
37.5°	3874.0	3021.3	897.6	237.8	180.6	134.6	111.1	102.0	98.8	96.4	97.6
40°	3901.0	2937.2	663.1	217.7	158.2	112.2	94.3	89.7	86.5	85.2	85.2
42.5°	4018.8	2922.6	492.5	199.7	136.9	93.1	82.0	78.5	76.3	75.2	76.3
45°	4328.5	3012.4	382.6	182.9	115.6	78.5	69.6	68.4	67.3	67.3	67.3
47.5°	4794.1	3197.5	318.6	163.8	96.4	67.3	60.6	59.4	58.4	59.4	59.4
50°	5582.7	3536.4	284.9	144.8	79.6	57.3	51.6	51.6	51.6	51.6	52.8
52.5°	6782.2	4202.7	262.6	125.6	65.1	48.3	43.7	43.7	44.9	44.9	46.0
55°	8118.3	5086.9	242.3	106.6	54.9	40.4	35.9	37.0	38.1	39.3	39.3
57.5°	9568.0	6066.3	225.5	87.5	47.1	32.6	30.3	31.4	32.6	34.8	34.8
60°	11317.0	7126.6	200.8	68.4	39.3	25.7	23.6	25.7	29.2	31.4	32.6
62.5°	13237.8	8152.1	169.5	53.9	32.6	20.2	19.1	23.6	28.1	30.3	31.4
65°	14550.4	8474.0	130.1	43.7	24.7	14.5	15.8	21.3	26.9	30.3	30.3
67°	14018.6	7683.0	106.6	37.0	20.2	11.3	14.5	21.3	26.9	29.2	30.3
67.5°	13649.5	7373.4	102.0	35.9	19.1	11.3	14.5	21.3	26.9	30.3	30.3
70°	11106.1	5539.0	85.2	26.9	15.8	10.1	12.3	20.2	25.7	29.2	29.2
72.5°	7716.7	3415.2	76.3	19.1	13.4	9.0	11.3	19.1	24.7	28.1	29.2
75°	3668.7	1236.4	65.1	14.5	12.3	7.8	10.1	19.1	24.7	28.1	28.1
77.5°	748.3	287.3	52.8	12.3	10.1	7.8	9.0	17.9	23.6	26.9	26.9
80°	245.8	111.1	39.3	11.3	10.1	7.8	9.0	16.8	23.6	25.7	26.9
82.5°	177.2	56.0	25.7	11.3	10.1	7.8	7.8	16.8	22.4	25.7	25.7
85°	135.7	39.3	16.8	11.3	10.1	7.8	7.8	15.8	21.3	24.7	24.7
87.5°	89.7	15.8	13.4	11.3	10.1	7.8	7.8	15.8	20.2	23.6	24.7
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)