

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: P192787

Luminaire Tested: **GAN-AF-09-LED-U-SL2-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192787
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-09-LED-U-SL2-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA 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: 34441.8 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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



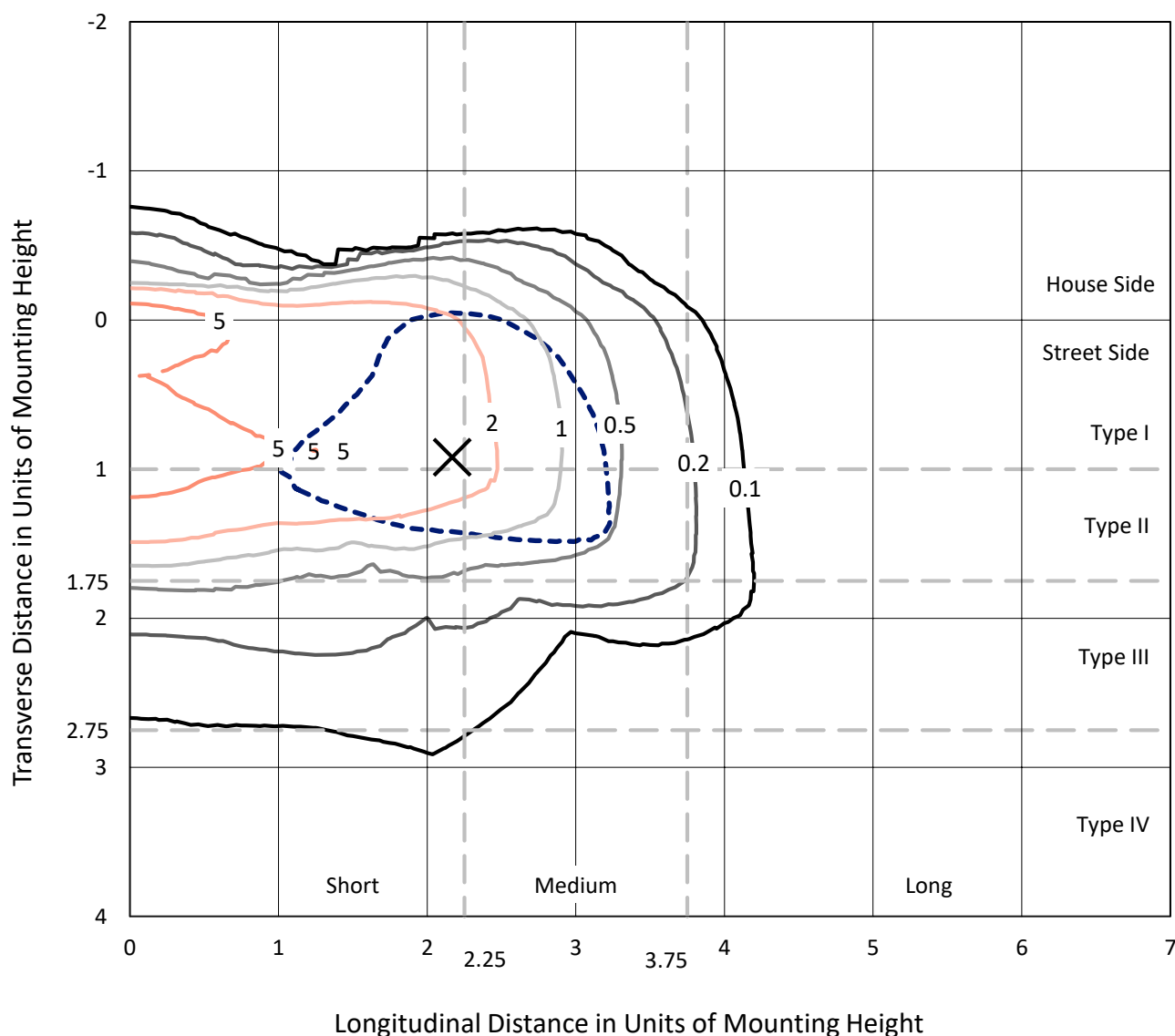
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

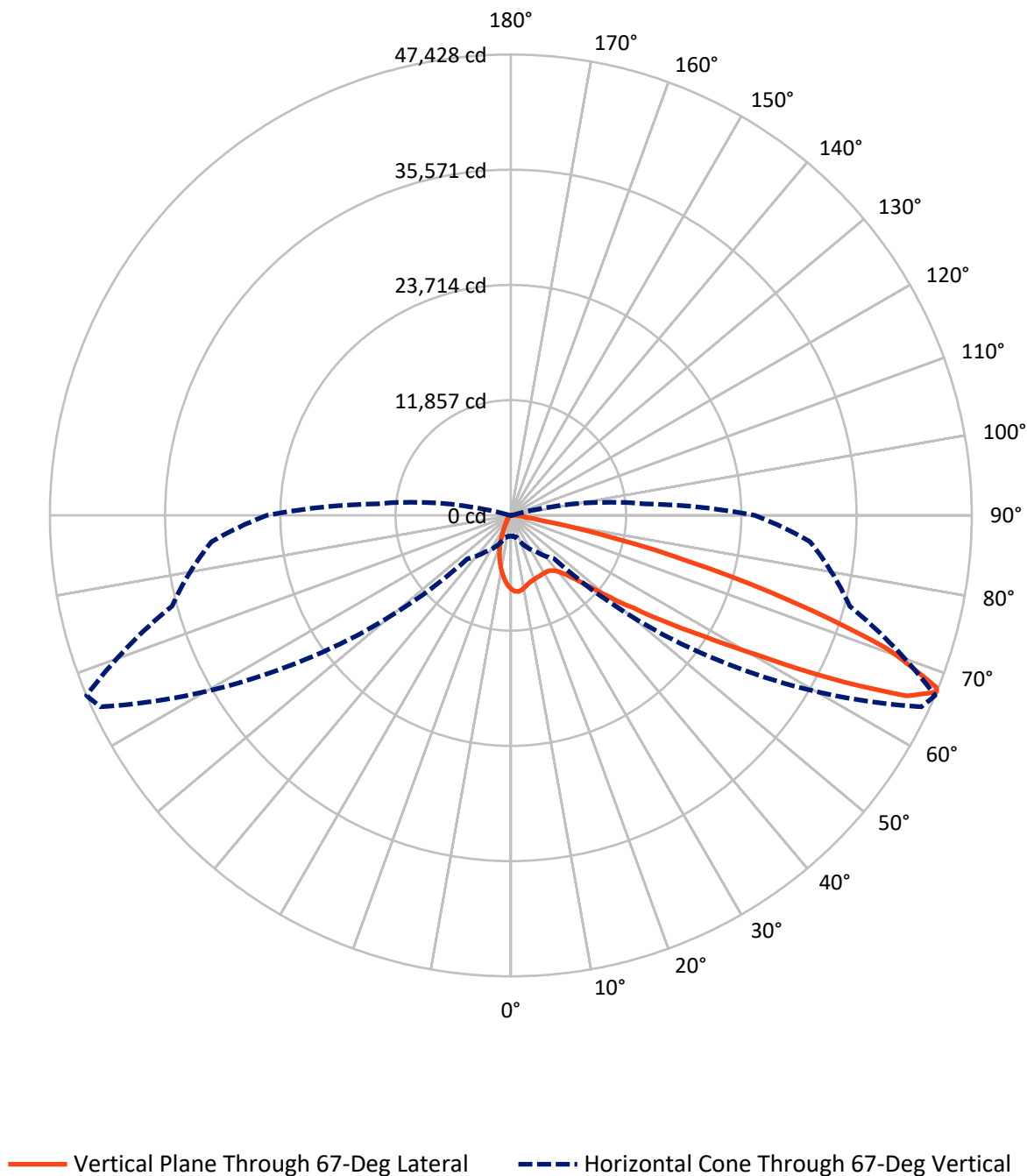


Based on 30 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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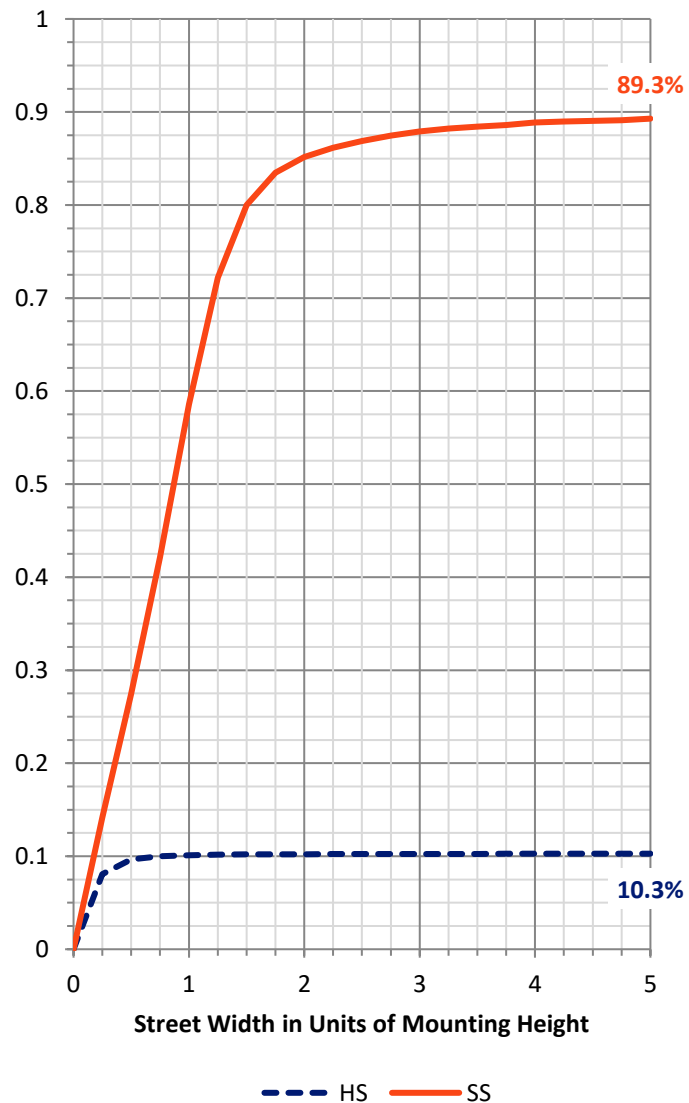
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3576.1	0.0	3576.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	30865.7	0.0	30865.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	34441.8	0.0	34441.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.1	1.8
10°-20°	1315.4	3.8
20°-30°	1912.6	5.6
30°-40°	2983.6	8.7
40°-50°	5285.4	15.3
50°-60°	8363.6	24.3
60°-70°	9579.3	27.8
70°-80°	3973.4	11.5
80°-90°	410.4	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°	34441.8	100.0
0°-180°	34441.8	100.0

Coefficient of Utilization



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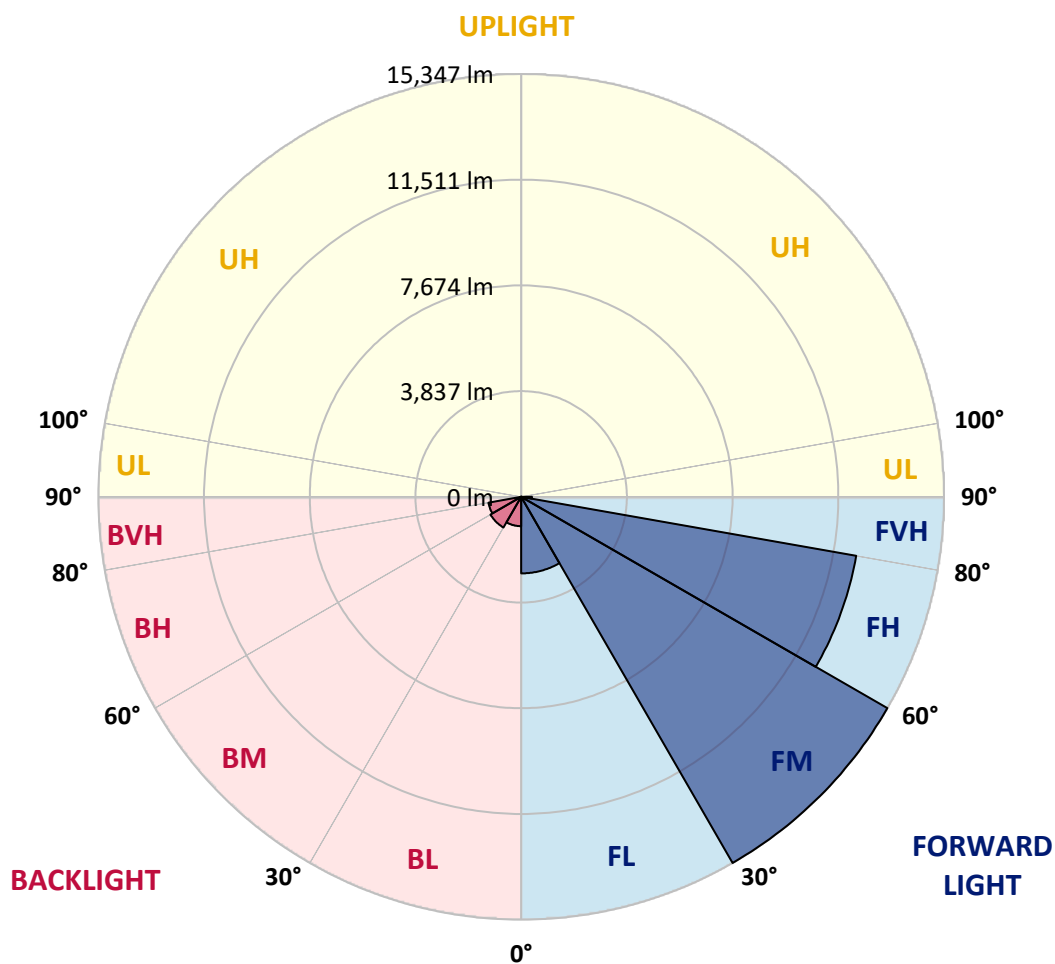
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2778.9	8.1			
FM	(30°-60°)	15347.3	44.6			
FH	(60°-80°)	12347.5	35.9			G5
FVH	(80°-90°)	392.0	1.1			G3/500
BL	(0°-30°)	1067.1	3.1	B3/2500		
BM	(30°-60°)	1285.2	3.7	B2/2500		
BH	(60°-80°)	1205.3	3.5	B3/2500		G3/2500
BVH	(80°-90°)	18.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7595.7	7595.7	7595.7	7595.7	7595.7	7595.7	7595.7	7595.7	7595.7	7595.7	7595.7
2.5°	7852.8	7868.9	7866.8	7878.9	7907.1	7909.1	7881.0	7826.7	7814.7	7744.3	7621.8
5°	7242.1	7288.3	7316.4	7430.9	7559.5	7714.2	7830.7	7872.9	7866.8	7816.6	7631.9
7.5°	6545.0	6591.3	6623.4	6758.0	6928.6	7193.9	7497.3	7746.4	7768.5	7822.8	7623.8
10°	6081.0	6089.0	6133.2	6261.7	6440.7	6711.8	7073.3	7509.3	7575.6	7774.5	7603.7
12.5°	5699.3	5705.3	5763.5	5902.1	6093.1	6366.2	6745.8	7250.1	7352.6	7714.2	7599.7
15°	5428.1	5450.2	5502.4	5647.1	5850.0	6121.1	6510.9	7059.4	7181.8	7692.1	7635.9
17.5°	5337.7	5361.8	5377.8	5482.3	5667.2	5932.3	6332.1	6934.8	7073.3	7704.2	7706.2
20°	5432.1	5450.2	5414.1	5440.1	5554.6	5791.8	6181.5	6828.2	6993.0	7718.2	7796.6
22.5°	5783.6	5791.8	5693.3	5578.8	5558.7	5689.2	6062.9	6743.9	6920.7	7756.5	7903.0
25°	6386.3	6372.2	6211.5	5964.5	5731.4	5671.1	5992.6	6691.7	6884.5	7796.6	8013.5
27.5°	7113.6	7133.6	6912.7	6553.1	6109.1	5791.8	5982.5	6669.6	6868.5	7824.7	8110.0
30°	7997.4	8025.6	7772.4	7320.5	6683.6	6089.0	6075.0	6665.6	6858.4	7806.6	8118.0
32.5°	8899.5	8933.6	8734.7	8268.6	7451.1	6587.2	6283.8	6709.7	6878.5	7744.3	8071.7
35°	9843.6	9891.9	9759.2	9359.4	8491.6	7306.3	6651.4	6844.3	6972.9	7738.3	8025.6
37.5°	11147.4	11191.7	10942.6	10518.6	9751.3	8270.7	7242.1	7097.5	7196.0	7834.8	8037.6
40°	13094.0	13088.0	12445.1	11796.2	11135.3	9496.2	8071.7	7555.5	7605.7	8126.0	8186.4
42.5°	15215.5	15205.4	14255.3	13268.9	12672.2	11004.8	9162.6	8347.0	8312.9	8662.4	8572.1
45°	16850.7	16848.8	16073.2	14962.4	14522.4	12736.5	10572.9	9447.8	9395.6	9534.3	9283.2
47.5°	17547.8	17559.9	17170.2	16388.7	16573.5	15078.9	12350.7	11043.0	10964.6	10908.3	10526.7
50°	17005.4	17029.4	17061.7	16909.0	18078.1	18226.8	14735.4	13291.0	13252.8	13001.7	12405.0
52.5°	15233.6	15356.1	15733.8	16217.9	18600.6	21248.2	18473.9	16083.3	15878.4	15611.3	14954.4
55°	12248.3	12382.9	13100.0	14275.3	17823.0	23233.0	23713.2	19683.3	19341.7	18544.2	17596.1
57.5°	8106.0	8314.8	9355.6	10850.1	15565.1	23552.5	28940.4	24679.5	23490.2	21306.5	20237.8
60°	4465.8	4666.7	5795.6	7149.7	11241.9	21973.4	32455.9	31184.3	29082.9	24394.2	23446.0
62.5°	2750.2	2858.7	3692.4	4951.9	6742.0	17342.9	33183.1	39358.6	36925.8	28369.8	27321.2
65°	2189.7	2235.9	2643.7	4047.9	4833.4	10315.7	30834.7	45590.2	44778.6	33183.1	30790.6
67°	2125.4	2143.5	2336.4	3475.4	4556.2	6324.0	25832.6	46604.6	47428.4	36096.1	30899.1
67.5°	2139.6	2159.6	2342.4	3316.7	4548.1	5811.8	24108.9	46204.9	47245.6	36327.1	30418.9
70°	2063.2	2125.4	2681.9	3314.7	4325.1	4829.4	14438.1	40033.5	41116.3	33753.7	25810.5
72.5°	731.3	735.4	1159.1	2681.9	4702.8	4881.7	7250.1	29348.1	30149.8	25820.4	18608.5
75°	434.0	369.7	385.6	763.4	4494.0	4741.0	4182.6	18753.1	19052.5	14795.7	9423.8
77.5°	299.4	261.1	269.3	337.5	1711.5	4674.7	3322.7	9779.4	9460.0	5189.0	2006.9
80°	170.8	150.7	160.7	295.3	622.8	4361.3	3133.9	3965.6	3381.0	879.9	554.5
82.5°	90.3	76.4	92.5	243.1	434.0	2718.1	3139.9	1916.5	1518.7	297.3	377.7
85°	32.1	26.1	44.2	166.7	289.3	833.6	2910.8	1611.1	1265.7	144.7	287.3
87.5°	6.0	6.0	18.0	68.3	116.5	255.1	1721.6	956.2	640.8	86.5	196.8
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°	7595.7	7595.7	7595.7	7595.7	7595.7	7595.7	7595.7	7595.7	7595.7	7595.7	7595.7
2.5°	7571.5	7485.3	7368.7	7226.1	7057.3	6908.7	6798.1	6683.6	6659.6	6619.4	6613.4
5°	7521.4	7372.7	7083.4	6751.9	6398.3	6078.9	5819.8	5588.8	5486.4	5398.0	5387.9
7.5°	7447.0	7224.0	6731.9	6197.5	5645.0	5142.9	4716.9	4415.6	4138.3	4005.8	3985.7
10°	7360.7	7041.2	6336.1	5594.8	4831.5	4122.3	3489.5	2959.2	2637.7	2446.9	2422.8
12.5°	7280.3	6862.5	5932.3	4970.1	3955.5	3007.4	2193.7	1687.5	1350.0	1213.5	1197.3
15°	7242.1	6717.8	5554.6	4331.2	3039.5	1914.4	1199.3	928.1	817.6	785.5	783.5
17.5°	7238.1	6595.2	5185.0	3670.2	2129.5	1113.0	781.4	713.1	691.1	683.0	683.0
20°	7236.1	6478.7	4815.4	2985.3	1352.0	741.4	650.8	634.8	618.7	608.7	608.7
22.5°	7258.2	6374.3	4429.7	2286.1	851.7	600.7	572.5	556.4	536.4	522.4	520.3
25°	7280.3	6293.9	4035.9	1627.2	616.8	522.4	494.2	472.1	443.9	425.9	423.9
27.5°	7284.4	6193.5	3614.1	1088.9	516.2	456.0	419.9	385.6	353.6	335.5	333.5
30°	7224.0	6024.8	3145.9	735.4	456.0	395.7	347.6	311.4	281.3	267.1	267.1
32.5°	7105.5	5815.8	2631.6	554.5	405.8	339.5	287.3	253.2	233.0	227.0	225.0
35°	6999.0	5590.8	2103.3	470.1	363.7	287.3	235.0	212.9	200.9	198.9	196.8
37.5°	6936.8	5410.0	1607.1	425.9	323.4	241.0	198.9	182.8	176.8	172.7	174.9
40°	6985.0	5259.3	1187.2	389.7	283.3	200.9	168.7	160.7	154.7	152.6	152.6
42.5°	7196.0	5233.2	881.9	357.6	245.1	166.7	146.6	140.6	136.6	134.6	136.6
45°	7750.5	5393.9	685.0	327.4	206.9	140.6	124.5	122.6	120.5	120.5	120.5
47.5°	8584.1	5725.4	570.6	293.3	172.7	120.5	108.5	106.4	104.5	106.4	106.4
50°	9996.3	6332.1	510.2	259.2	142.6	102.4	92.5	92.5	92.5	92.5	94.4
52.5°	12143.8	7525.3	470.1	225.0	116.5	86.5	78.3	78.3	80.3	80.3	82.4
55°	14536.5	9108.4	434.0	190.8	98.5	72.3	64.3	66.3	68.3	70.4	70.4
57.5°	17132.0	10862.2	403.8	156.7	84.3	58.2	54.2	56.3	58.2	62.3	62.3
60°	20263.9	12760.6	359.6	122.6	70.4	46.2	42.2	46.2	52.2	56.3	58.2
62.5°	23703.1	14596.7	303.3	96.4	58.2	36.2	34.2	42.2	50.3	54.2	56.3
65°	26053.5	15173.3	233.0	78.3	44.2	26.1	28.1	38.1	48.2	54.2	54.2
67°	25101.3	13757.1	190.8	66.3	36.2	20.1	26.1	38.1	48.2	52.2	54.2
67.5°	24440.4	13202.6	182.8	64.3	34.2	20.1	26.1	38.1	48.2	54.2	54.2
70°	19886.2	9918.0	152.6	48.2	28.1	18.0	22.1	36.2	46.2	52.2	52.2
72.5°	13817.3	6115.1	136.6	34.2	24.1	16.1	20.1	34.2	44.2	50.3	52.2
75°	6569.1	2213.8	116.5	26.1	22.1	14.1	18.0	34.2	44.2	50.3	50.3
77.5°	1339.9	514.3	94.4	22.1	18.0	14.1	16.1	32.1	42.2	48.2	48.2
80°	440.0	198.9	70.4	20.1	18.0	14.1	16.1	30.1	42.2	46.2	48.2
82.5°	317.4	100.4	46.2	20.1	18.0	14.1	14.1	30.1	40.2	46.2	46.2
85°	243.1	70.4	30.1	20.1	18.0	14.1	14.1	28.1	38.1	44.2	44.2
87.5°	160.7	28.1	24.1	20.1	18.0	14.1	14.1	28.1	36.2	42.2	44.2
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)