

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: P192663

Luminaire Tested: **GAN-AF-05-LED-U-AFL-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-AFL-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19030.8 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 210
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



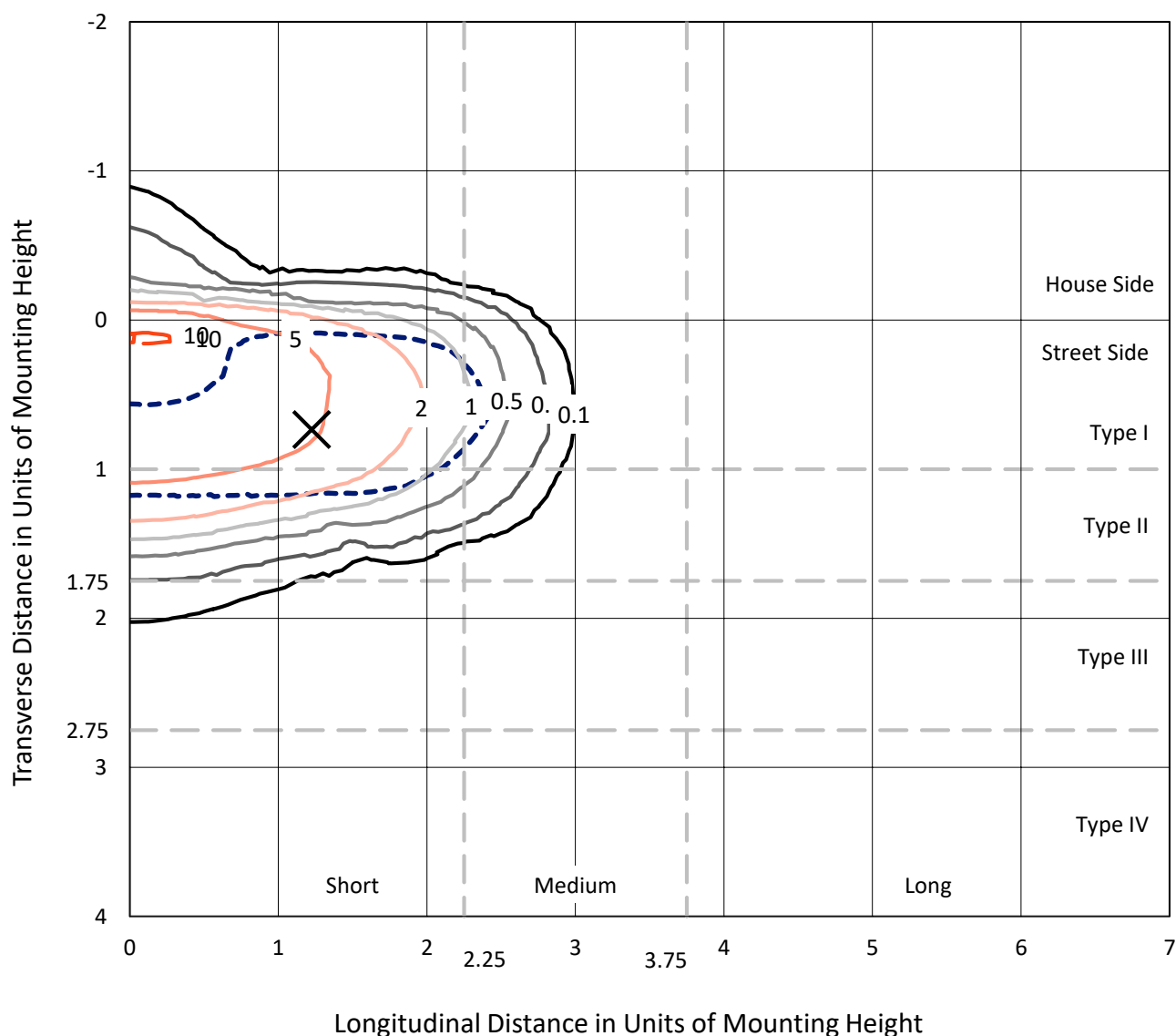
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

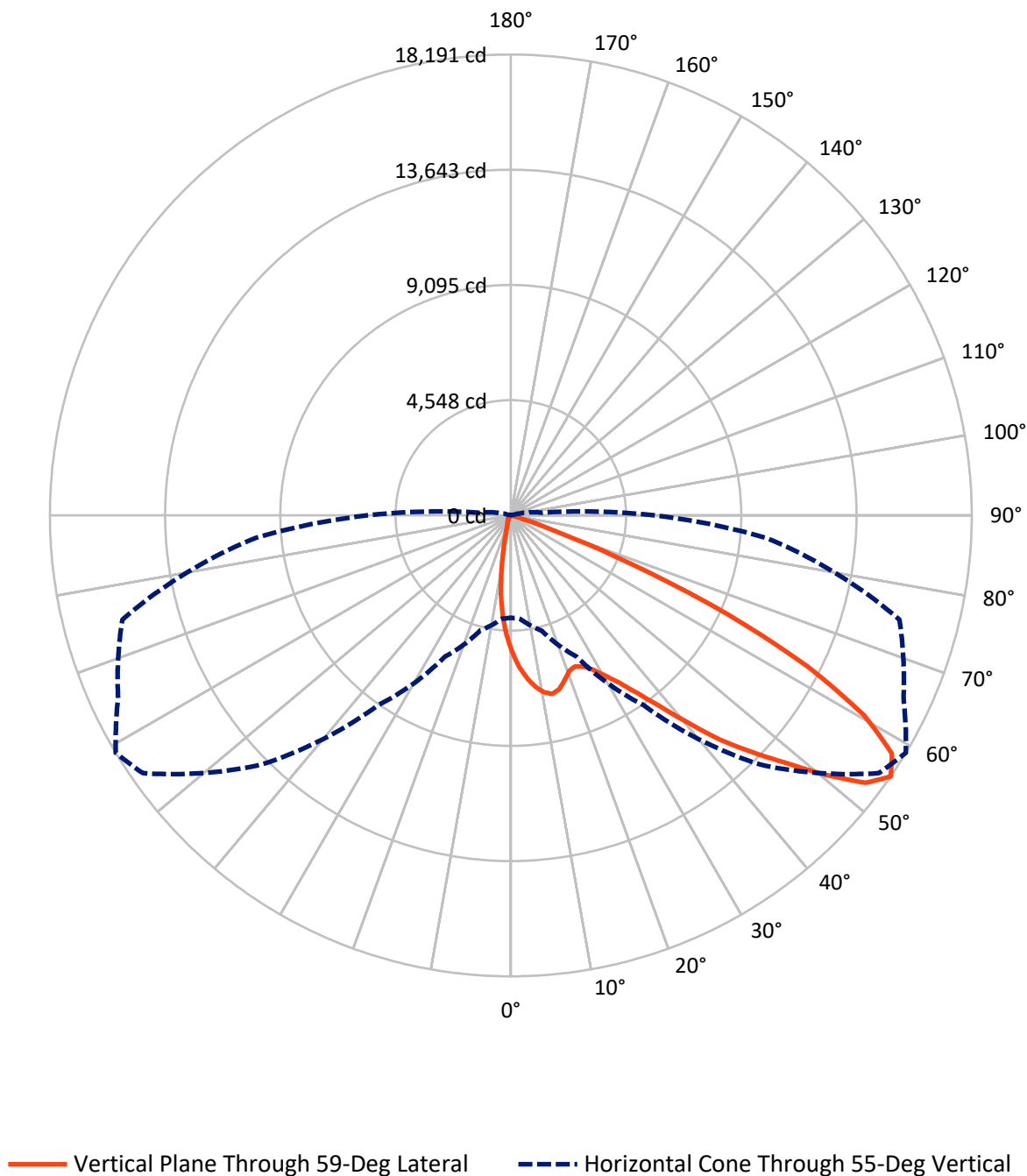


Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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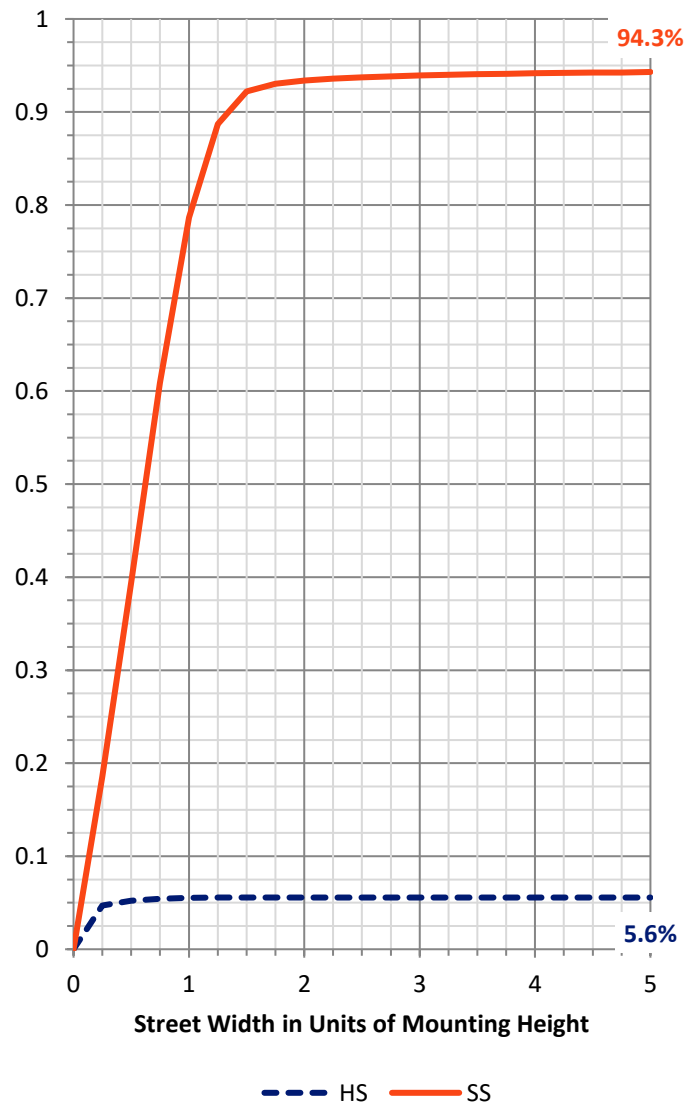
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1063.0	0.0	1063.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	17967.8	0.0	17967.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	19030.8	0.0	19030.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.7	2.4
10°-20°	1074.3	5.6
20°-30°	1828.1	9.6
30°-40°	3144.0	16.5
40°-50°	4853.9	25.5
50°-60°	4879.8	25.6
60°-70°	2502.4	13.1
70°-80°	271.2	1.4
80°-90°	28.4	0.1
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°	19030.8	100.0
0°-180°	19030.8	100.0

Coefficient of Utilization



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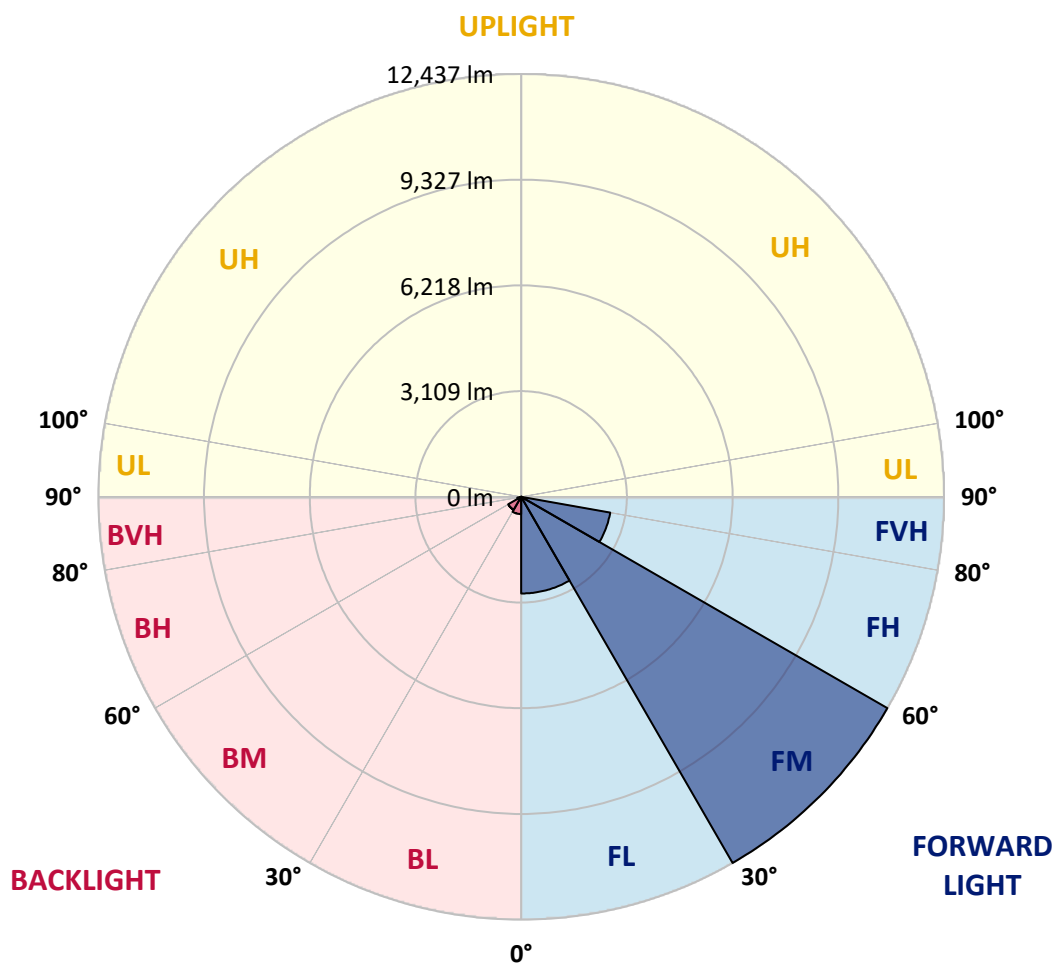
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2843.8	14.9			
FM	(30°-60°)	12436.5	65.3			
FH	(60°-80°)	2659.7	14.0			G2/5000
FVH	(80°-90°)	27.8	0.1			G1/100
BL	(0°-30°)	507.4	2.7	B2/1000		
BM	(30°-60°)	441.1	2.3	B1/1000		
BH	(60°-80°)	113.9	0.6	B1/500		G1/500
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5357.1	5357.1	5357.1	5357.1	5357.1	5357.1	5357.1	5357.1	5357.1	5357.1	5357.1
2.5°	6338.6	6271.3	6251.0	6237.6	6175.8	6098.3	5992.8	5943.3	5842.3	5679.4	5479.5
5°	6919.3	6907.0	6862.0	6837.3	6771.1	6661.0	6492.5	6411.7	6251.0	5977.0	5618.7
7.5°	6665.5	6742.9	6804.7	6908.0	7038.4	7033.9	6892.3	6808.2	6628.4	6266.8	5773.8
10°	5685.1	5747.9	5848.9	6083.8	6562.1	6984.4	7150.7	7090.1	6946.2	6532.9	5923.2
12.5°	5493.0	5486.2	5504.3	5572.8	5823.2	6425.1	7106.9	7229.2	7200.0	6776.7	6064.7
15°	5595.1	5587.3	5585.2	5608.8	5669.4	5923.2	6777.8	7129.2	7355.0	7002.4	6184.8
17.5°	5881.5	5847.9	5830.0	5810.9	5792.8	5855.8	6382.5	6849.7	7378.6	7200.0	6284.8
20°	6372.3	6316.2	6249.9	6142.1	6041.1	6009.6	6216.3	6562.1	7294.3	7350.5	6349.9
22.5°	6988.9	6917.1	6802.5	6606.0	6400.4	6281.5	6298.2	6471.2	7168.6	7514.6	6380.2
25°	7681.9	7589.8	7437.1	7164.1	6862.0	6650.9	6540.8	6601.5	7111.3	7706.6	6415.0
27.5°	8424.2	8322.1	8122.2	7750.5	7407.9	7122.6	6898.0	6890.1	7209.0	7958.1	6471.2
30°	9159.9	9144.1	8883.6	8490.5	8036.8	7689.7	7366.3	7324.7	7482.0	8306.3	6582.4
32.5°	10141.5	10023.5	9704.5	9300.2	8776.9	8360.2	7977.2	7880.7	7900.9	8711.8	6754.2
35°	11379.1	11249.9	10800.8	10242.5	9657.4	9165.4	8742.1	8610.6	8561.2	9375.4	7044.0
37.5°	12178.7	12176.4	11894.5	11326.3	10698.4	10155.9	9695.5	9541.7	9441.7	10177.4	7493.2
40°	12200.0	12252.8	12289.9	12284.2	11837.2	11337.5	10928.6	10738.9	10506.4	11248.8	8073.8
42.5°	11545.3	11681.1	12008.0	12562.7	12827.8	12629.1	12284.2	12097.8	11751.9	12395.5	8781.3
45°	10660.3	10754.6	11326.3	12348.3	13364.7	13909.4	13646.6	13313.0	12857.0	13591.6	9416.0
47.5°	10263.9	10280.6	10650.1	11772.1	13405.1	14958.3	15117.7	14575.3	13861.0	14555.1	9912.3
50°	9079.0	9109.3	9619.1	10773.7	12931.2	15453.6	16595.7	16081.5	14956.1	15297.5	10093.2
52.5°	6842.9	6885.6	7532.6	9132.9	11628.4	15242.4	17653.7	17529.0	16155.5	15660.2	10103.2
55°	4037.4	4093.6	4711.4	6147.7	9146.4	13899.2	17732.3	18190.6	17102.3	15874.8	10087.5
57.5°	1885.7	1924.9	2278.7	3167.1	5688.4	10984.8	16548.6	17736.8	17624.5	15988.1	10198.7
60°	1001.8	1013.1	1098.4	1371.3	2570.8	6965.4	14238.4	16016.2	17148.4	16145.5	10334.7
62.5°	765.9	769.3	764.9	797.4	1080.3	3091.8	10762.5	13167.1	15231.2	16027.5	10184.0
65°	663.8	669.3	637.8	630.1	692.9	1102.9	6393.8	9385.6	11968.7	14436.1	9158.7
67.5°	595.3	597.4	559.3	526.7	538.0	596.3	2522.5	5138.1	7922.2	10581.6	6638.5
70°	548.1	545.9	504.2	452.6	438.0	407.6	801.9	1883.4	3786.0	5366.0	3087.3
72.5°	485.2	486.3	466.1	398.7	363.9	285.2	371.7	549.1	1129.8	1462.2	723.3
75°	430.2	424.5	399.8	357.2	299.9	187.6	184.2	244.8	348.2	346.0	156.1
77.5°	311.1	305.5	313.3	293.2	230.2	121.3	92.1	117.9	141.5	137.0	43.8
80°	228.1	224.6	202.1	243.7	203.3	83.1	57.3	63.0	72.9	61.7	13.4
82.5°	156.1	155.0	142.6	134.7	115.7	50.6	35.9	39.4	47.2	34.9	6.8
85°	24.7	28.1	103.4	82.0	68.5	22.5	24.7	27.0	31.4	19.1	2.3
87.5°	0.0	0.0	48.3	42.7	13.4	9.0	14.6	15.8	15.8	10.2	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5357.1	5357.1	5357.1	5357.1	5357.1	5357.1	5357.1	5357.1	5357.1	5357.1	5357.1
2.5°	5377.3	5264.9	5057.3	4842.7	4643.9	4407.0	4244.1	4121.7	3980.2	3942.0	4025.1
5°	5414.4	5202.2	4755.1	4268.9	3811.7	3305.2	2917.8	2611.2	2333.8	2239.4	2324.8
7.5°	5472.8	5157.1	4428.3	3627.5	2832.4	2041.7	1500.4	1144.4	917.6	850.1	886.1
10°	5531.1	5092.0	4049.8	2868.4	1781.3	993.9	647.0	516.6	468.2	458.3	463.8
12.5°	5579.5	5004.4	3588.3	2039.6	952.4	532.3	423.4	402.1	395.3	395.3	397.6
15°	5608.8	4871.9	3041.3	1297.1	548.1	402.1	369.6	362.7	362.7	363.9	366.1
17.5°	5605.3	4703.5	2442.7	785.0	409.9	355.9	336.9	331.3	330.2	332.4	333.6
20°	5563.7	4483.4	1841.9	517.8	357.2	324.6	305.5	295.3	294.2	296.5	298.8
22.5°	5485.2	4211.5	1317.3	398.7	322.4	294.2	270.6	261.6	261.6	264.0	266.1
25°	5389.6	3879.1	900.8	338.0	290.8	261.6	239.2	231.3	233.6	239.2	240.4
27.5°	5270.6	3505.1	612.1	289.7	252.7	229.1	212.3	206.6	212.3	220.1	222.4
30°	5168.4	3115.4	436.9	250.4	214.4	197.6	187.6	187.6	195.5	210.0	213.4
32.5°	5089.9	2738.0	336.9	221.2	186.4	171.9	166.2	171.9	184.2	198.8	202.1
35°	5079.7	2426.9	285.2	197.6	166.2	151.7	149.3	159.5	171.9	183.0	185.3
37.5°	5157.1	2139.6	257.2	178.5	148.3	134.7	132.5	144.9	157.3	170.7	174.0
40°	5304.3	1913.6	237.0	160.6	133.7	119.1	114.5	123.6	140.4	158.3	162.8
42.5°	5495.2	1727.3	214.4	142.6	119.1	98.9	93.2	103.4	121.3	140.4	146.0
45°	5677.2	1566.7	189.8	122.4	100.0	76.4	74.1	87.6	96.5	115.7	120.1
47.5°	5777.1	1425.2	168.5	100.0	77.5	61.7	61.7	65.1	74.1	96.5	101.1
50°	5743.4	1311.7	146.0	74.1	53.9	47.2	47.2	46.0	59.5	77.5	80.9
52.5°	5676.0	1246.6	125.7	57.3	37.0	33.7	30.4	33.7	41.5	49.3	50.6
55°	5665.9	1235.4	105.6	46.0	25.7	22.5	16.8	16.8	16.8	15.8	13.4
57.5°	5744.6	1253.3	88.7	37.0	19.1	14.6	9.0	0.0	0.0	0.0	0.0
60°	5825.3	1272.5	76.4	25.7	13.4	7.8	1.1	0.0	0.0	0.0	0.0
62.5°	5690.7	1229.8	64.0	15.8	10.2	3.4	0.0	0.0	0.0	0.0	0.0
65°	4998.8	1046.7	50.6	11.3	6.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3555.7	700.8	33.7	6.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	1622.8	293.2	21.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	347.0	91.0	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	70.8	66.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	22.5	104.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.4	75.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.3	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)