

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: P192674

Luminaire Tested: **GAN-AF-06-LED-U-AFL-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192674
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-06-LED-U-AFL-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA 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: 28186.7 lumens
Efficiency: N/A
Efficacy: 84.6 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): 333
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

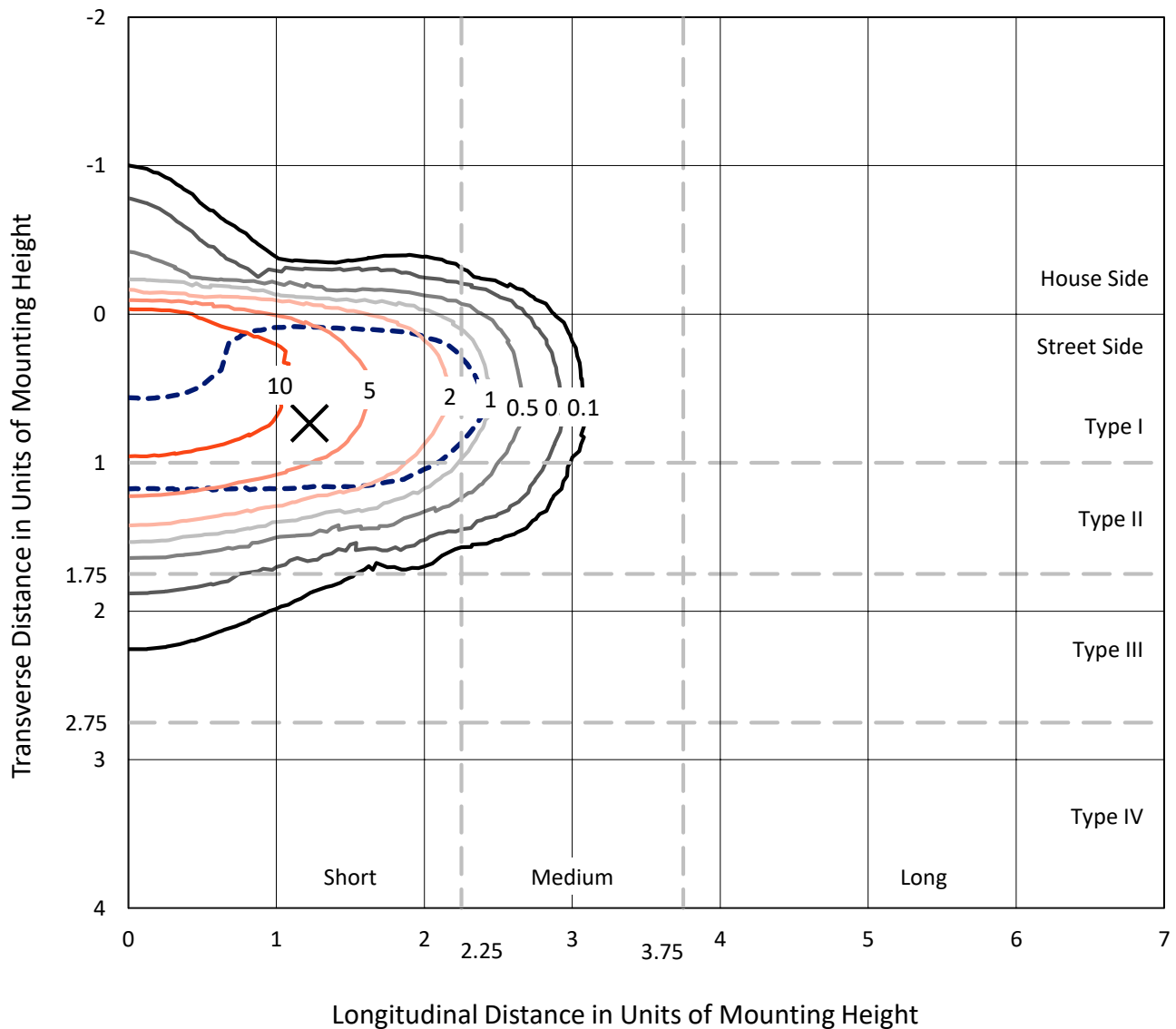


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

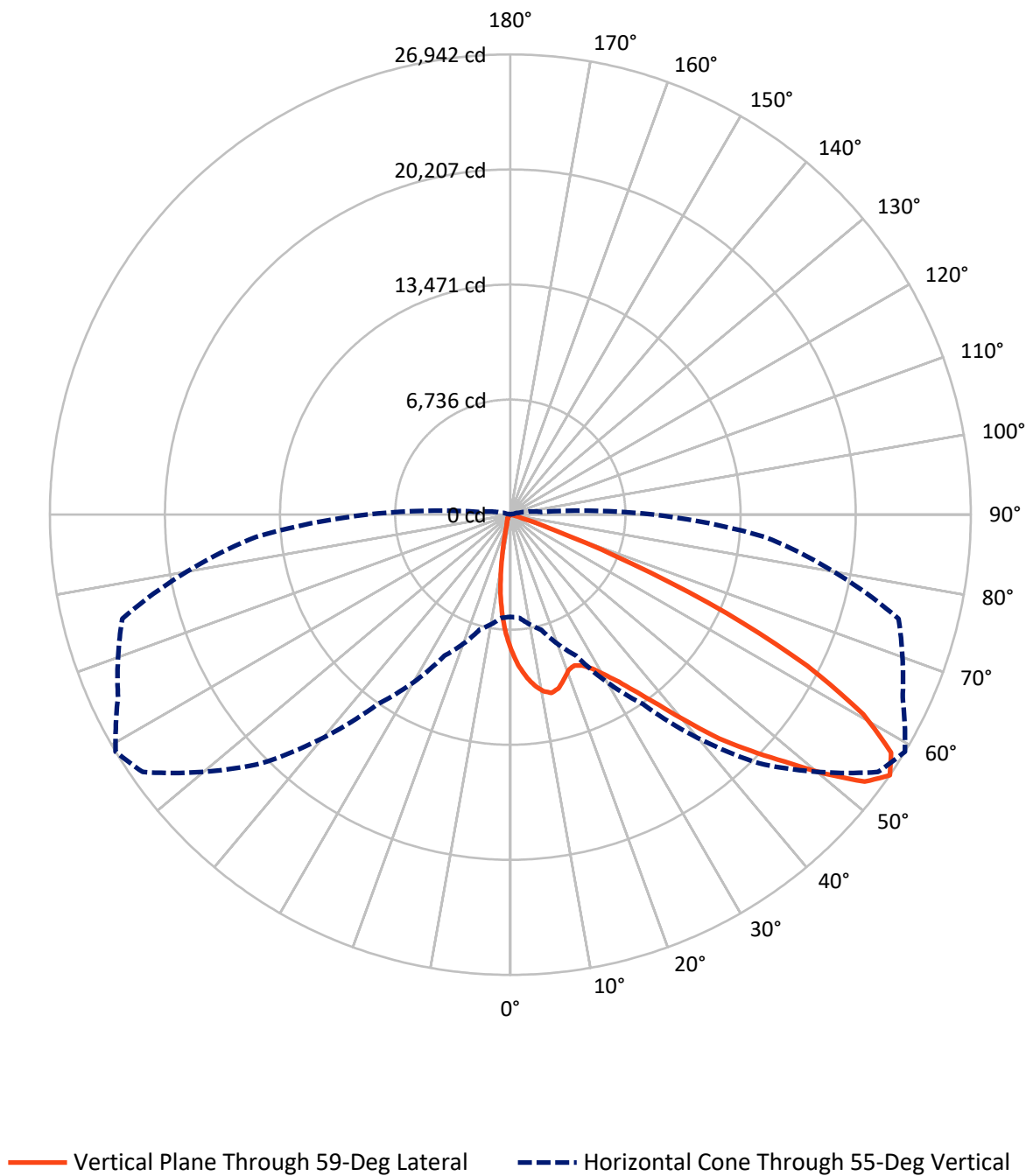


Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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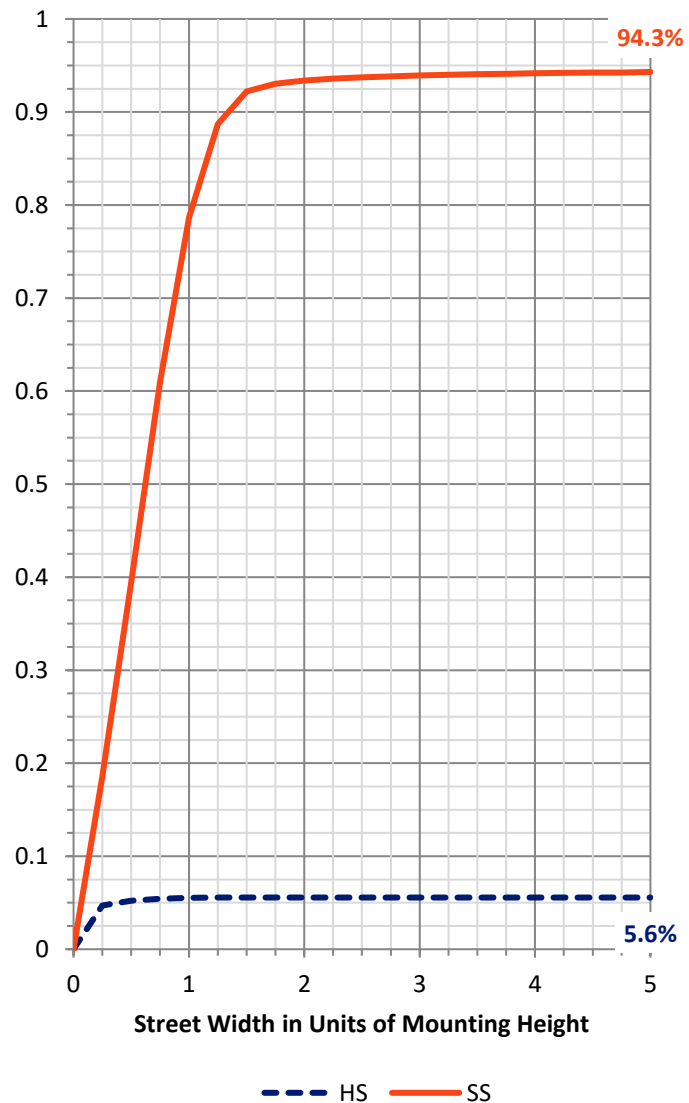
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1574.4	0.0	1574.4
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	26612.3	0.0	26612.3
	% Fixture	94.4	0.0	94.4
Total	Lumens	28186.7	0.0	28186.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	664.6	2.4
10°-20°	1591.2	5.6
20°-30°	2707.7	9.6
30°-40°	4656.6	16.5
40°-50°	7189.2	25.5
50°-60°	7227.5	25.6
60°-70°	3706.3	13.1
70°-80°	401.7	1.4
80°-90°	42.0	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°	28186.7	100.0
0°-180°	28186.7	100.0

Coefficient of Utilization



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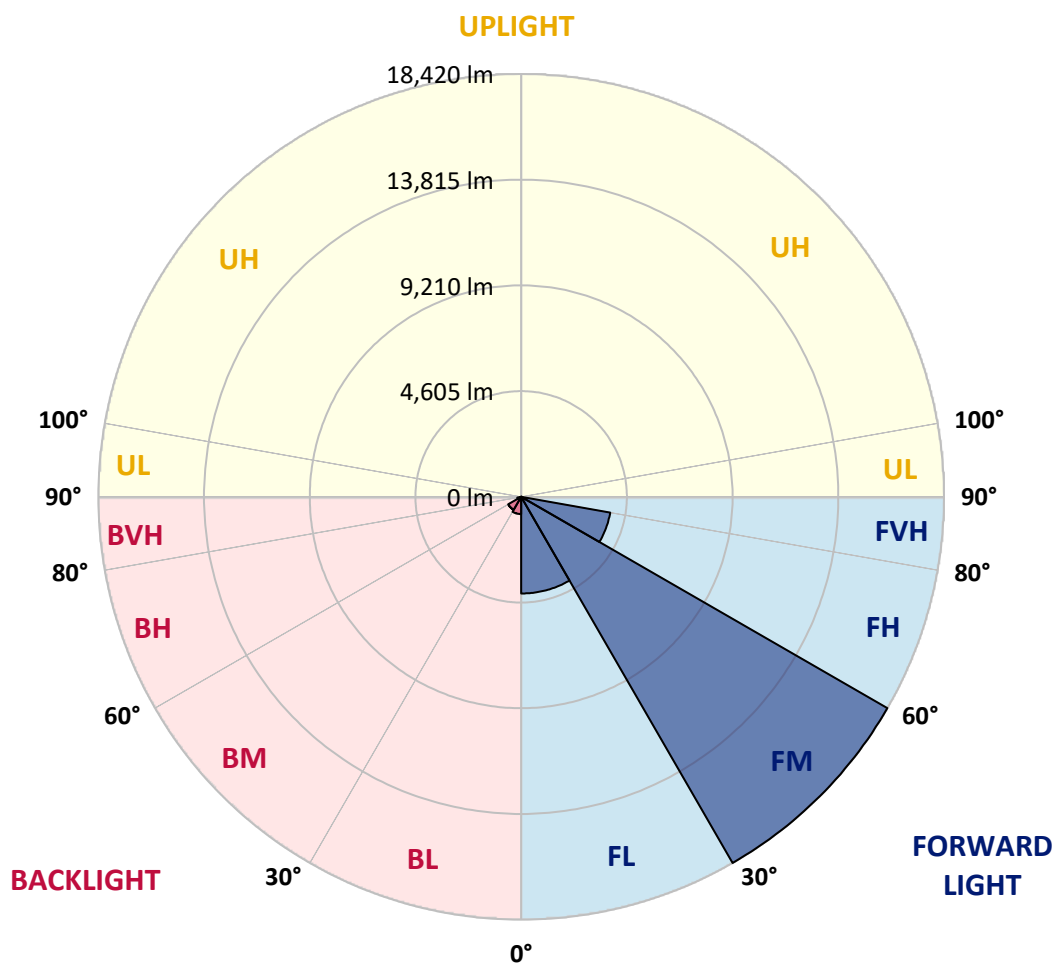
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4212.0	14.9			
FM	(30°-60°)	18419.9	65.3			
FH	(60°-80°)	3939.3	14.0			G2/5000
FVH	(80°-90°)	41.1	0.1			G1/100
BL	(0°-30°)	751.5	2.7	B2/1000		
BM	(30°-60°)	653.4	2.3	B1/1000		
BH	(60°-80°)	168.7	0.6	B1/500		G1/500
BVH	(80°-90°)	0.9	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°	7934.4	7934.4	7934.4	7934.4	7934.4	7934.4	7934.4	7934.4	7934.4	7934.4	7934.4
2.5°	9388.3	9288.4	9258.5	9238.5	9147.0	9032.4	8875.9	8802.8	8653.0	8411.9	8115.8
5°	10248.3	10230.0	10163.4	10126.8	10028.7	9865.7	9616.1	9496.4	9258.5	8852.6	8322.1
7.5°	9872.3	9987.1	10078.6	10231.6	10424.5	10417.9	10208.3	10083.5	9817.4	9281.8	8551.6
10°	8420.2	8513.4	8663.0	9010.7	9719.2	10344.7	10590.9	10501.1	10288.2	9676.0	8772.9
12.5°	8135.8	8125.7	8152.4	8253.9	8624.8	9516.4	10526.0	10707.4	10664.1	10037.0	8982.4
15°	8287.1	8275.4	8272.1	8307.1	8396.9	8772.9	10038.6	10559.4	10893.7	10371.3	9160.4
17.5°	8711.2	8661.4	8634.8	8606.5	8579.9	8673.0	9453.1	10145.2	10928.5	10664.1	9308.5
20°	9438.2	9355.0	9256.9	9097.2	8947.5	8901.0	9206.9	9719.2	10803.9	10887.0	9404.9
22.5°	10351.4	10244.9	10075.3	9784.1	9479.8	9303.4	9328.3	9584.6	10617.5	11129.9	9449.9
25°	11377.7	11241.3	11015.1	10610.9	10163.4	9850.7	9687.7	9777.5	10532.7	11414.4	9501.4
27.5°	12477.2	12325.9	12029.8	11479.3	10971.9	10549.3	10216.7	10205.1	10677.4	11786.9	9584.6
30°	13566.7	13543.4	13157.5	12575.4	11903.4	11389.4	10910.3	10848.8	11081.6	12302.6	9749.2
32.5°	15020.5	14845.9	14373.5	13774.7	12999.5	12382.5	11815.2	11672.1	11702.1	12903.1	10003.8
35°	16853.7	16662.4	15996.9	15170.3	14303.6	13575.0	12948.0	12753.4	12680.2	13886.1	10432.9
37.5°	18038.0	18034.7	17617.2	16775.4	15845.7	15042.2	14360.2	14132.3	13984.3	15073.9	11098.2
40°	18069.7	18147.8	18202.7	18194.4	17532.3	16792.0	16186.6	15905.5	15561.1	16660.7	11958.2
42.5°	17099.8	17301.1	17785.1	18606.9	18999.4	18704.9	18194.4	17918.2	17405.9	18359.1	13006.2
45°	15789.0	15928.8	16775.4	18289.1	19794.5	20601.3	20212.1	19718.0	19042.7	20130.6	13946.0
47.5°	15201.9	15226.8	15774.1	17435.8	19854.5	22154.9	22391.1	21587.7	20529.9	21557.7	14681.2
50°	13447.0	13491.9	14247.1	15957.1	19152.5	22888.5	24580.2	23818.3	22151.5	22657.3	14949.1
52.5°	10135.1	10198.4	11156.5	13526.9	17223.0	22575.8	26147.2	25962.5	23928.1	23194.5	14964.0
55°	5980.0	6063.2	6978.0	9105.4	13546.8	20586.3	26263.5	26942.2	25330.3	23512.3	14940.7
57.5°	2792.8	2851.1	3375.0	4690.8	8425.2	16269.8	24510.3	26270.2	26103.9	23680.3	15105.4
60°	1483.7	1500.3	1626.8	2031.0	3807.5	10316.5	21088.6	23721.9	25398.6	23913.1	15306.6
62.5°	1134.4	1139.5	1132.8	1181.0	1600.2	4579.4	15940.5	19501.8	22559.1	23738.5	15083.8
65°	983.2	991.4	944.8	933.2	1026.3	1633.4	9469.8	13901.0	17727.0	21381.5	13565.1
67.5°	881.6	884.9	828.4	780.1	796.7	883.3	3736.0	7610.1	11733.7	15672.5	9832.4
70°	811.8	808.4	746.9	670.3	648.8	603.7	1187.6	2789.5	5607.3	7947.7	4572.7
72.5°	718.6	720.2	690.3	590.5	538.9	422.5	550.5	813.4	1673.5	2165.7	1071.3
75°	637.1	628.8	592.1	529.0	444.1	277.7	272.8	362.6	515.7	512.3	231.2
77.5°	460.7	452.5	464.2	434.2	341.0	179.6	136.3	174.7	209.6	202.9	64.9
80°	337.7	332.7	299.4	361.0	301.1	123.1	84.7	93.2	108.1	91.4	20.0
82.5°	231.2	229.6	211.3	199.6	171.3	74.9	53.2	58.2	69.8	51.6	10.0
85°	36.6	41.6	153.1	121.4	101.5	33.3	36.6	39.9	46.6	28.3	3.3
87.5°	0.0	0.0	71.6	63.3	20.0	13.3	21.7	23.3	23.3	15.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7934.4	7934.4	7934.4	7934.4	7934.4	7934.4	7934.4	7934.4	7934.4	7934.4	7934.4
2.5°	7964.4	7798.1	7490.4	7172.7	6878.2	6527.2	6286.0	6104.8	5895.1	5838.6	5961.6
5°	8019.3	7704.9	7042.9	6322.7	5645.7	4895.4	4321.5	3867.4	3456.5	3316.8	3443.3
7.5°	8105.8	7638.4	6558.9	5372.9	4195.1	3024.1	2222.4	1695.0	1358.9	1259.2	1312.4
10°	8192.3	7541.8	5998.3	4248.3	2638.2	1472.2	958.1	765.2	693.7	678.7	687.0
12.5°	8263.9	7412.1	5314.6	3020.8	1410.5	788.5	627.1	595.5	585.5	585.5	588.8
15°	8307.1	7215.8	4504.5	1921.3	811.8	595.5	547.3	537.2	537.2	538.9	542.3
17.5°	8302.1	6966.4	3617.9	1162.7	607.2	527.2	499.0	490.7	489.1	492.3	494.1
20°	8240.6	6640.3	2727.9	766.8	529.0	480.7	452.5	437.5	435.8	439.1	442.5
22.5°	8124.1	6237.8	1951.2	590.5	477.4	435.8	400.9	387.6	387.6	390.9	394.2
25°	7982.7	5745.4	1334.0	500.7	430.8	387.6	354.3	342.6	346.1	354.3	355.9
27.5°	7806.3	5191.5	906.6	429.2	374.2	339.4	314.3	306.0	314.3	326.0	329.3
30°	7655.0	4614.3	647.1	370.9	317.7	292.7	277.7	277.7	289.4	311.1	316.1
32.5°	7538.6	4055.3	499.0	327.7	276.1	254.5	246.2	254.5	272.8	294.5	299.4
35°	7523.6	3594.6	422.5	292.7	246.2	224.5	221.2	236.2	254.5	271.2	274.5
37.5°	7638.4	3168.8	380.9	264.5	219.6	199.6	196.2	214.5	232.8	252.8	257.9
40°	7856.3	2834.4	350.9	237.8	198.0	176.4	169.7	183.0	207.9	234.6	241.3
42.5°	8139.0	2558.3	317.7	211.3	176.4	146.4	138.1	153.1	179.6	207.9	216.3
45°	8408.5	2320.4	281.2	181.3	148.0	113.1	109.8	129.8	143.0	171.3	178.0
47.5°	8556.5	2110.9	249.5	148.0	114.7	91.4	91.4	96.4	109.8	143.0	149.6
50°	8506.7	1942.8	216.3	109.8	79.9	69.8	69.8	68.2	88.2	114.7	119.7
52.5°	8406.9	1846.4	186.3	84.7	54.8	49.9	44.9	49.9	61.5	73.2	74.9
55°	8391.8	1829.8	156.3	68.2	38.2	33.3	24.9	24.9	24.9	23.3	20.0
57.5°	8508.3	1856.4	131.4	54.8	28.3	21.7	13.3	0.0	0.0	0.0	0.0
60°	8628.1	1884.6	113.1	38.2	20.0	11.7	1.6	0.0	0.0	0.0	0.0
62.5°	8428.5	1821.5	94.8	23.3	15.0	5.0	0.0	0.0	0.0	0.0	0.0
65°	7403.9	1550.3	74.9	16.6	10.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5266.3	1038.0	49.9	10.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	2403.6	434.2	31.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	513.9	134.7	21.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	104.8	98.2	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	33.3	154.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	20.0	111.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.3	16.6	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)