

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: P192666

Luminaire Tested: **GAN-AF-08-LED-U-AFL-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192666
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-08-LED-U-AFL-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 30516.1 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 334
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



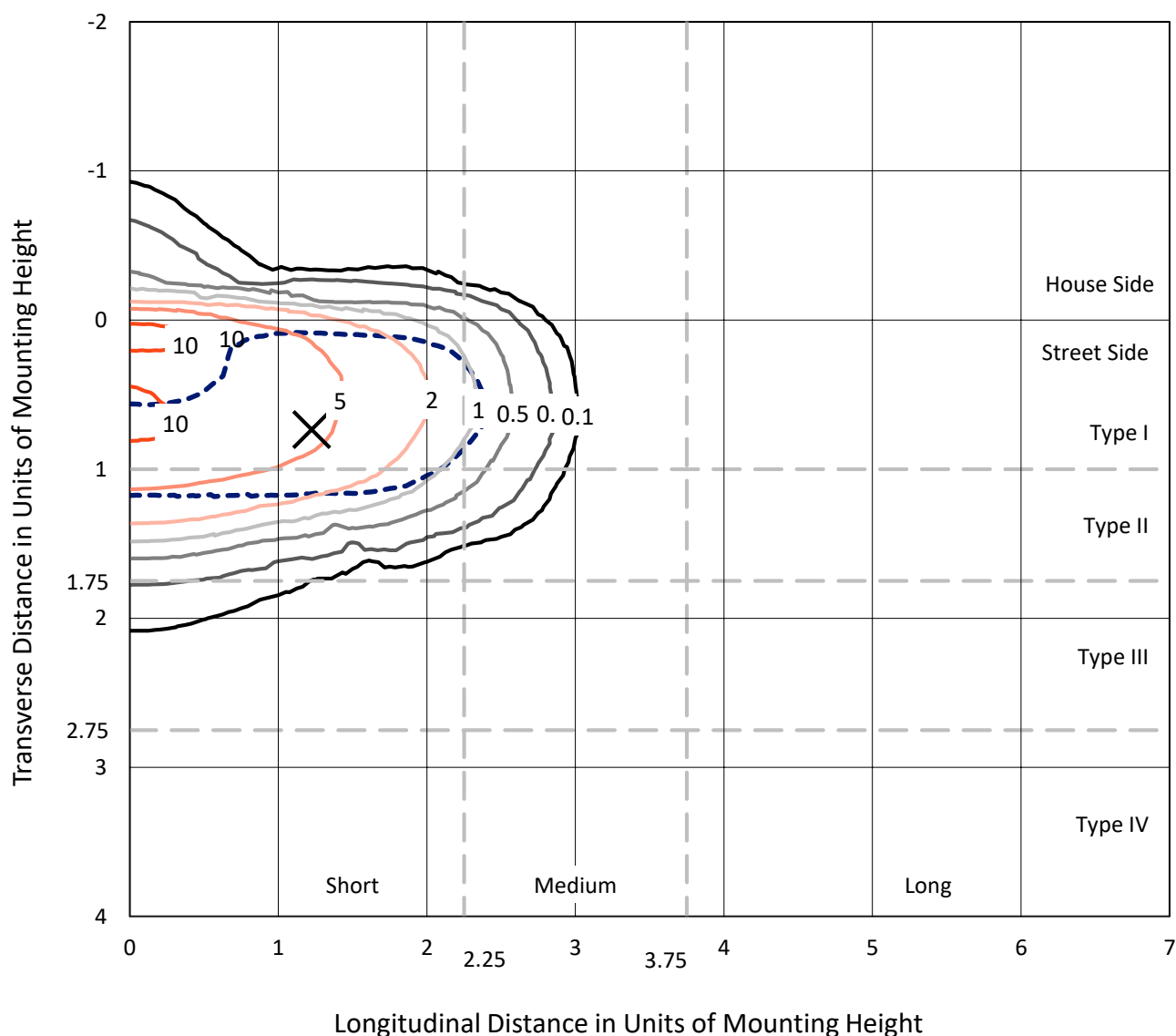
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

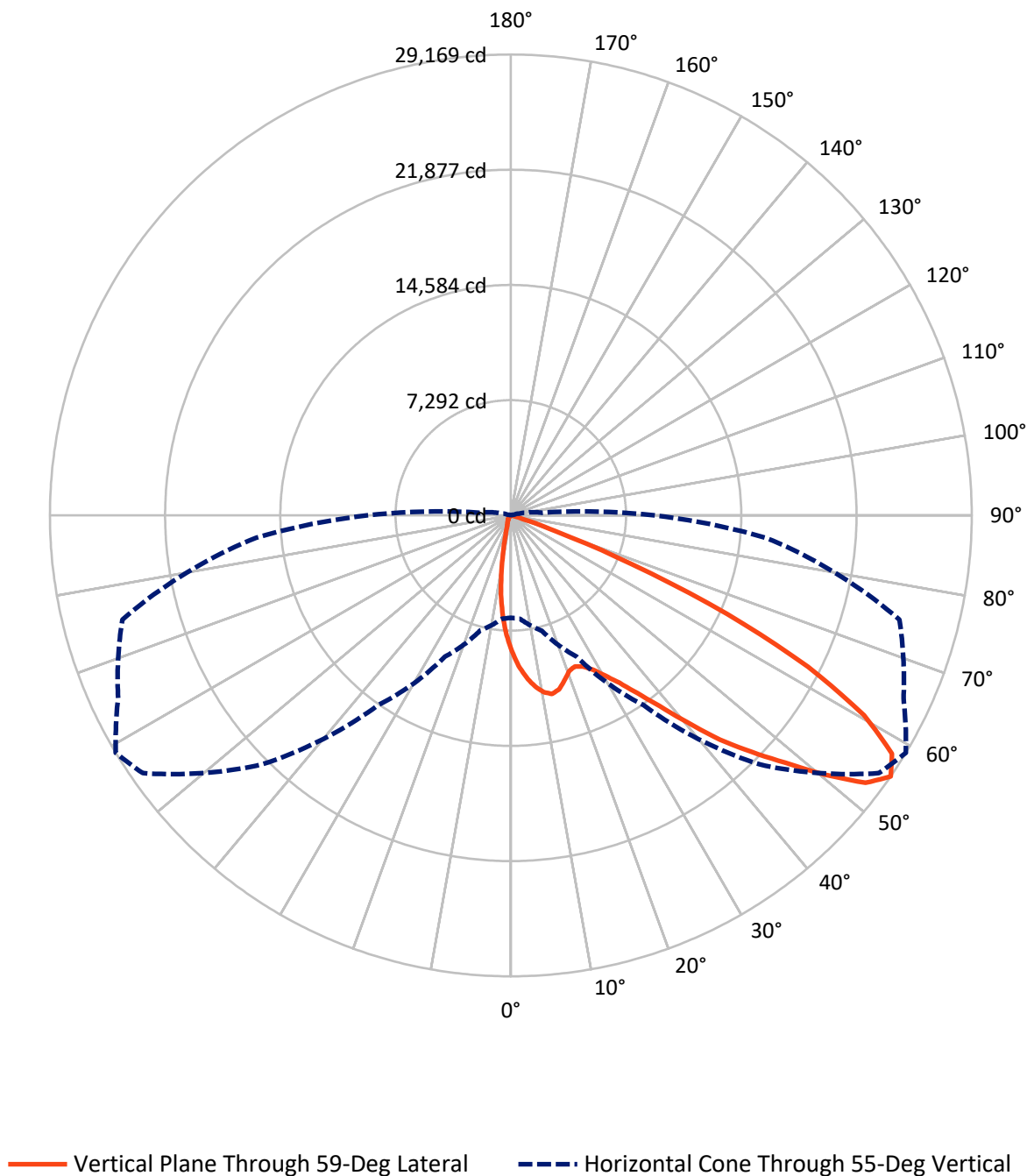


Based on 30 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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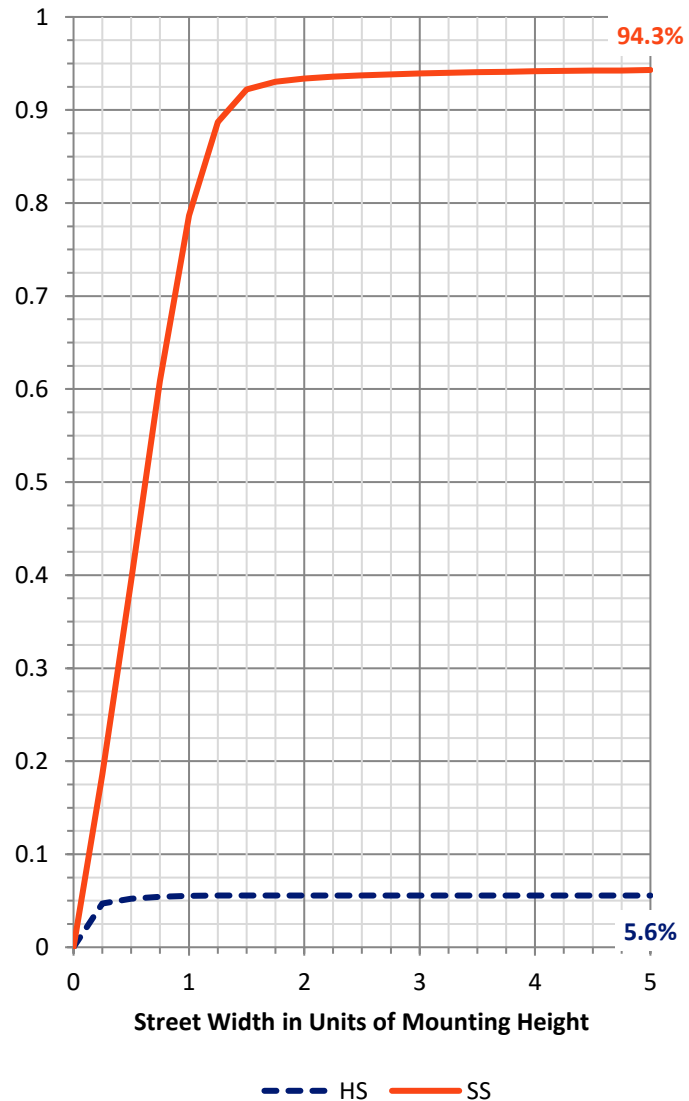
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1704.5	0.0	1704.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	28811.6	0.0	28811.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	30516.1	0.0	30516.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.5	2.4
10°-20°	1722.7	5.6
20°-30°	2931.4	9.6
30°-40°	5041.4	16.5
40°-50°	7783.4	25.5
50°-60°	7824.8	25.6
60°-70°	4012.6	13.1
70°-80°	434.9	1.4
80°-90°	45.5	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°	30516.1	100.0
0°-180°	30516.1	100.0

Coefficient of Utilization



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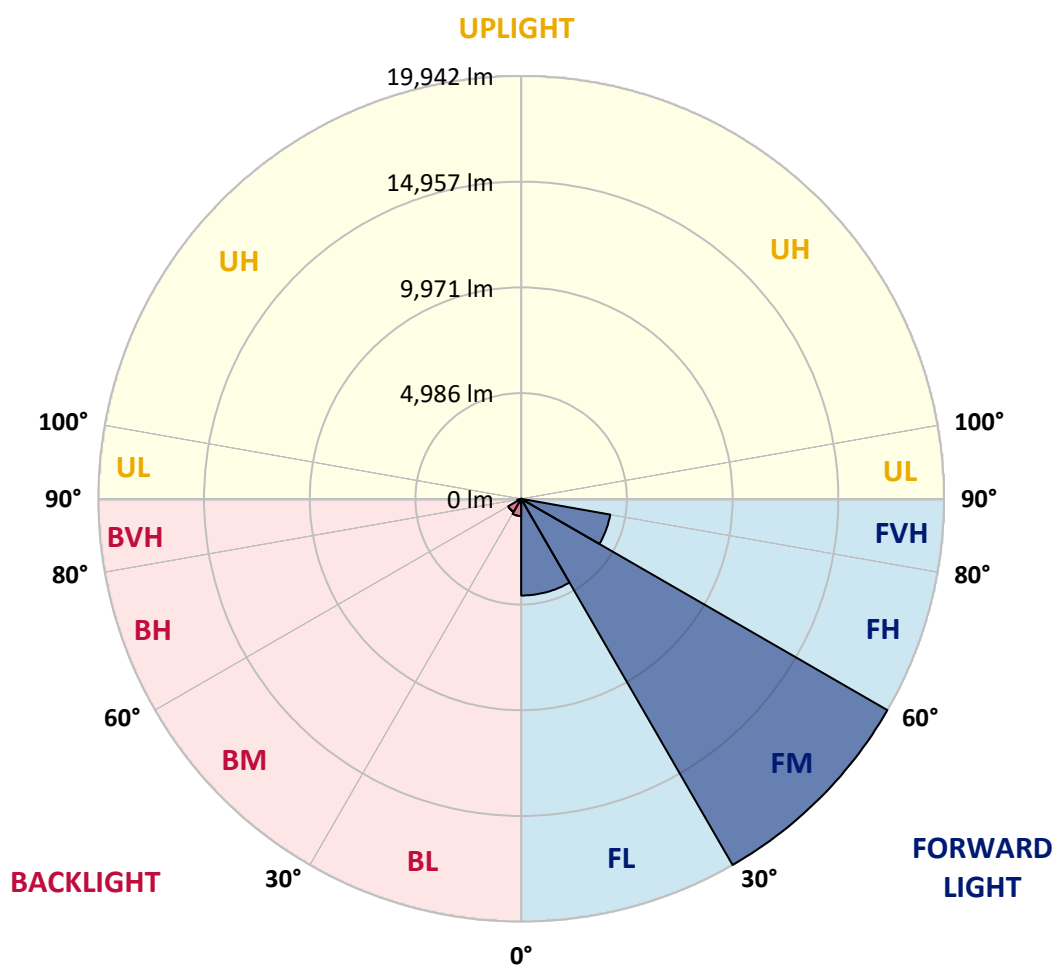
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4560.1	14.9			
FM	(30°-60°)	19942.1	65.3			
FH	(60°-80°)	4264.8	14.0			G2/5000
FVH	(80°-90°)	44.5	0.1			G1/100
BL	(0°-30°)	813.6	2.7	B2/1000		
BM	(30°-60°)	707.4	2.3	B1/1000		
BH	(60°-80°)	182.6	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°	8590.2	8590.2	8590.2	8590.2	8590.2	8590.2	8590.2	8590.2	8590.2	8590.2	8590.2
2.5°	10164.2	10056.1	10023.7	10002.0	9903.0	9778.7	9609.5	9530.2	9368.1	9107.0	8786.5
5°	11095.2	11075.4	11003.4	10963.7	10857.5	10680.9	10410.9	10281.2	10023.7	9584.2	9009.7
7.5°	10688.2	10812.4	10911.5	11077.1	11286.1	11278.9	11052.0	10916.8	10628.7	10048.9	9258.3
10°	9116.0	9216.9	9379.0	9755.3	10522.5	11199.6	11466.2	11369.0	11138.4	10475.7	9497.8
12.5°	8808.1	8797.2	8826.1	8936.0	9337.6	10302.8	11396.0	11592.2	11545.4	10866.5	9724.7
15°	8972.0	8959.4	8955.8	8993.5	9090.8	9497.8	10868.2	11431.9	11793.9	11228.5	9917.5
17.5°	9431.1	9377.1	9348.3	9317.7	9288.9	9389.7	10234.5	10983.5	11831.8	11545.4	10077.7
20°	10218.2	10128.2	10022.0	9848.9	9686.9	9636.4	9967.8	10522.5	11696.6	11786.8	10182.2
22.5°	11206.8	11091.6	10907.9	10592.8	10263.2	10072.3	10099.3	10376.7	11494.9	12049.6	10230.8
25°	12318.0	12170.3	11925.4	11487.7	11003.4	10664.8	10488.4	10585.6	11403.2	12357.7	10286.6
27.5°	13508.4	13344.5	13023.9	12427.8	11878.5	11421.2	11061.0	11048.4	11559.8	12761.1	10376.7
30°	14687.9	14662.7	14244.9	13614.6	12887.0	12330.6	11811.9	11745.3	11997.4	13319.2	10554.9
32.5°	16261.9	16072.8	15561.4	14913.1	14073.8	13405.7	12791.6	12636.7	12669.1	13969.4	10830.5
35°	18246.6	18039.4	17319.0	16424.0	15485.8	14696.9	14018.0	13807.3	13728.1	15033.7	11295.1
37.5°	19528.7	19525.0	19073.1	18161.8	17155.2	16285.3	15546.9	15300.2	15139.9	16319.5	12015.5
40°	19562.9	19647.5	19707.0	19698.1	18981.2	18179.8	17524.3	17220.1	16847.2	18037.6	12946.4
42.5°	18513.0	18730.9	19255.0	20144.5	20569.5	20250.8	19698.1	19399.0	18844.4	19876.2	14081.0
45°	17093.9	17245.2	18161.8	19800.6	21430.4	22303.8	21882.5	21347.6	20616.4	21794.2	15098.5
47.5°	16458.2	16485.2	17077.7	18876.7	21495.2	23985.9	24241.6	23371.7	22226.4	23339.3	15894.5
50°	14558.2	14606.9	15424.4	17275.7	20735.3	24780.0	26611.5	25786.8	23982.3	24529.7	16184.5
52.5°	10972.7	11041.2	12078.5	14644.7	18646.3	24441.6	28308.0	28108.0	25905.6	25111.4	16200.6
55°	6474.1	6564.2	7554.6	9858.0	14666.3	22287.7	28434.0	29168.7	27423.7	25455.3	16175.5
57.5°	3023.6	3086.7	3653.9	5078.5	9121.4	17614.3	26535.9	28441.3	28261.1	25637.2	16353.7
60°	1606.3	1624.3	1761.3	2198.9	4122.3	11169.0	22831.5	25682.3	27497.6	25889.4	16571.7
62.5°	1228.2	1233.6	1226.4	1278.7	1732.5	4957.8	17257.8	21113.5	24423.5	25700.3	16330.3
65°	1064.3	1073.4	1022.8	1010.3	1111.1	1768.5	10252.4	15049.9	19191.9	23148.4	14686.1
67.5°	954.5	958.1	896.8	844.6	862.6	956.2	4044.8	8239.0	12703.3	16967.9	10645.0
70°	878.9	875.2	808.6	725.7	702.3	653.7	1285.9	3020.0	6070.8	8604.6	4950.6
72.5°	777.9	779.8	747.4	639.2	583.5	457.5	596.1	880.6	1811.6	2344.7	1159.8
75°	689.8	680.6	641.2	572.6	480.8	300.8	295.3	392.6	558.4	554.7	250.3
77.5°	498.9	489.8	502.5	470.1	369.2	194.5	147.7	189.1	226.9	219.7	70.3
80°	365.6	360.2	324.2	390.8	325.9	133.3	91.9	100.8	117.0	99.1	21.7
82.5°	250.3	248.6	228.7	216.2	185.5	81.1	57.6	63.1	75.6	55.8	10.8
85°	39.7	45.1	165.6	131.4	109.8	36.0	39.7	43.2	50.5	30.6	3.6
87.5°	0.0	0.0	77.5	68.4	21.7	14.4	23.4	25.2	25.2	16.2	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°	8590.2	8590.2	8590.2	8590.2	8590.2	8590.2	8590.2	8590.2	8590.2	8590.2	8590.2
2.5°	8622.6	8442.5	8109.3	7765.4	7446.6	7066.7	6805.5	6609.2	6382.3	6321.0	6454.4
5°	8682.1	8341.6	7624.8	6845.1	6112.2	5299.9	4678.7	4187.1	3742.2	3591.0	3727.8
7.5°	8775.7	8269.7	7100.9	5816.9	4541.8	3274.0	2406.0	1835.1	1471.2	1363.2	1420.9
10°	8869.3	8165.2	6494.0	4599.5	2856.1	1593.8	1037.3	828.4	750.9	734.8	743.7
12.5°	8946.7	8024.6	5753.8	3270.3	1527.1	853.7	678.9	644.7	633.9	633.9	637.5
15°	8993.5	7812.1	4876.8	2080.0	878.9	644.7	592.5	581.7	581.7	583.5	587.0
17.5°	8988.2	7542.0	3917.0	1258.7	657.3	570.9	540.3	531.2	529.5	533.0	534.9
20°	8921.6	7189.0	2953.4	830.2	572.6	520.4	489.8	473.6	471.8	475.4	479.0
22.5°	8795.5	6753.4	2112.4	639.2	516.9	471.8	434.0	419.5	419.5	423.2	426.7
25°	8642.4	6220.2	1444.3	542.0	466.4	419.5	383.6	370.9	374.5	383.6	385.3
27.5°	8451.5	5620.6	981.4	464.7	405.3	367.3	340.4	331.4	340.4	353.0	356.6
30°	8287.7	4995.7	700.6	401.6	343.9	317.0	300.8	300.8	313.3	336.7	342.2
32.5°	8161.5	4390.6	540.3	354.8	299.0	275.6	266.5	275.6	295.3	318.7	324.2
35°	8145.4	3891.7	457.5	317.0	266.5	243.1	239.5	255.7	275.6	293.6	297.1
37.5°	8269.7	3430.6	412.5	286.4	237.7	216.2	212.5	232.2	252.2	273.7	279.1
40°	8505.5	3068.6	380.0	257.6	214.2	190.8	183.7	198.1	225.1	253.9	261.1
42.5°	8811.6	2769.7	343.9	228.7	190.8	158.4	149.4	165.6	194.5	225.1	234.2
45°	9103.4	2512.2	304.4	196.3	160.3	122.5	118.9	140.5	154.9	185.5	192.8
47.5°	9263.6	2285.2	270.1	160.3	124.2	99.1	99.1	104.5	118.9	154.9	162.0
50°	9209.7	2103.5	234.2	118.9	86.5	75.6	75.6	73.9	95.5	124.2	129.7
52.5°	9101.7	1999.0	201.7	91.9	59.4	54.0	48.6	54.0	66.6	79.2	81.1
55°	9085.5	1981.0	169.3	73.9	41.4	36.0	27.0	27.0	27.0	25.2	21.7
57.5°	9211.4	2009.9	142.2	59.4	30.6	23.4	14.4	0.0	0.0	0.0	0.0
60°	9341.1	2040.4	122.5	41.4	21.7	12.6	1.7	0.0	0.0	0.0	0.0
62.5°	9125.0	1971.9	102.7	25.2	16.2	5.4	0.0	0.0	0.0	0.0	0.0
65°	8015.7	1678.4	81.1	18.0	10.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5701.5	1123.7	54.0	10.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	2602.2	470.1	34.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	556.4	145.9	23.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	113.4	106.2	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	36.0	167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	21.7	120.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.6	18.0	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)