

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: P192668

Luminaire Tested: **GAN-AF-10-LED-U-AFL-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192668
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-10-LED-U-AFL-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 37687.9 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 419
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



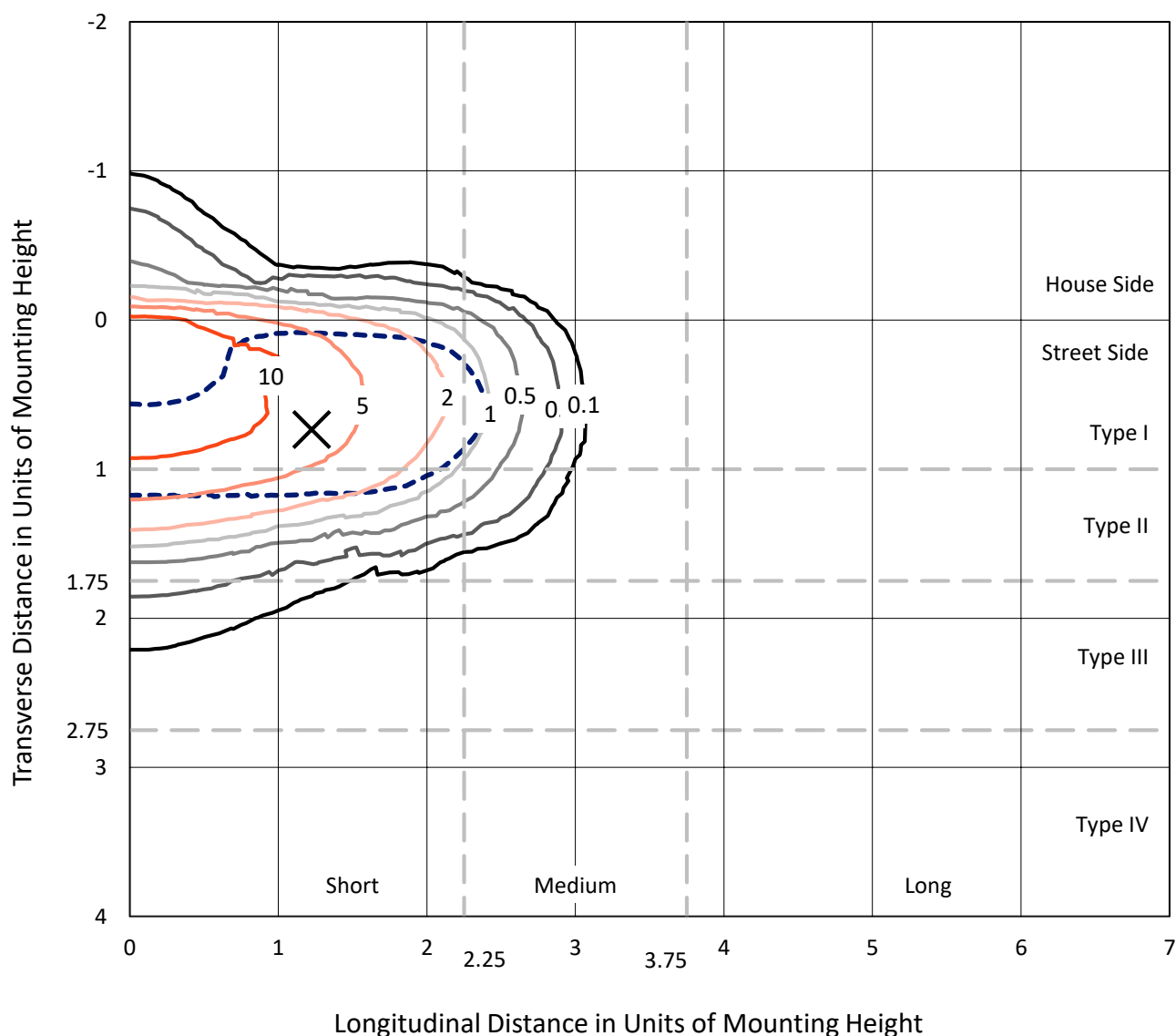
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

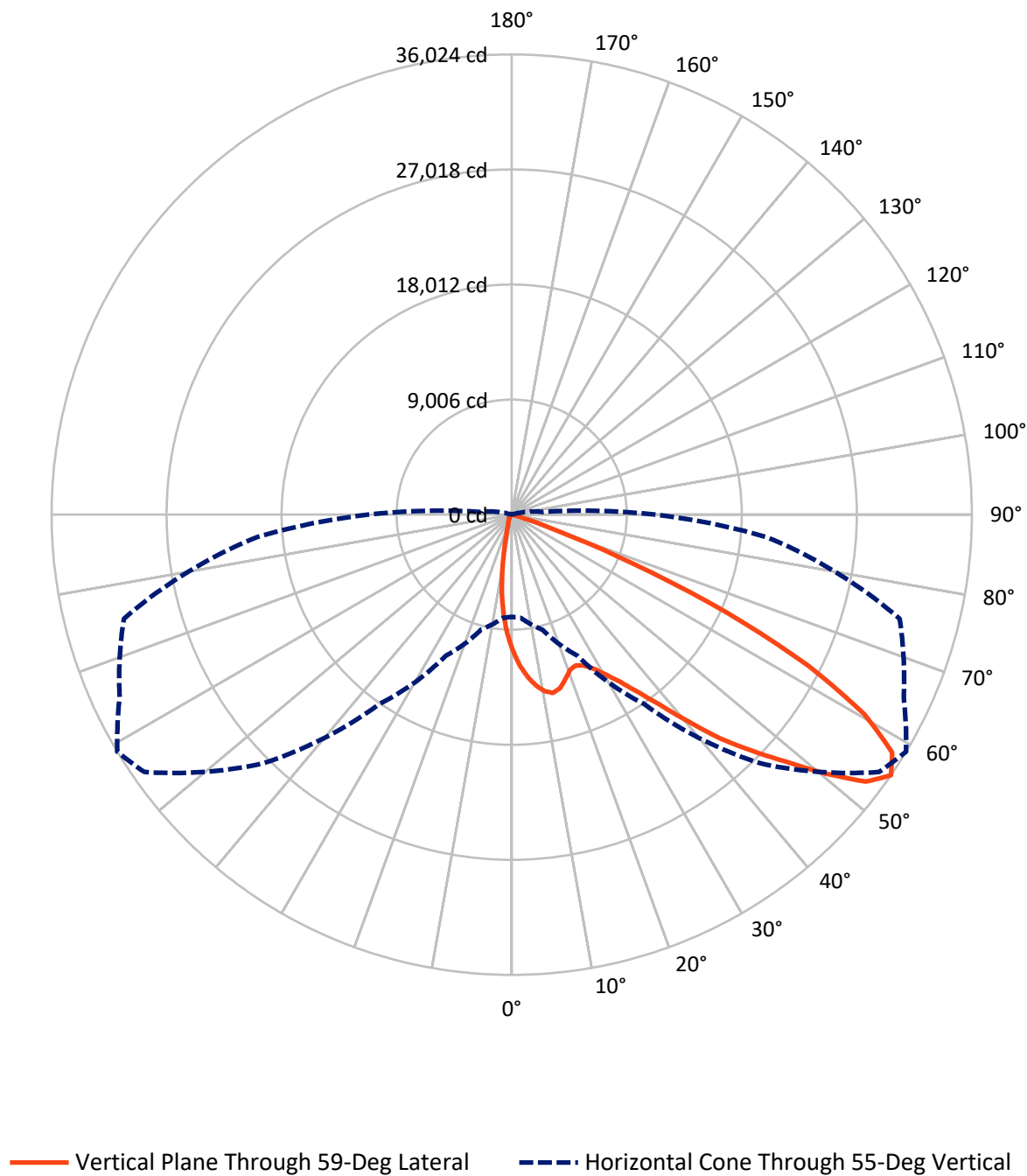


Based on 30 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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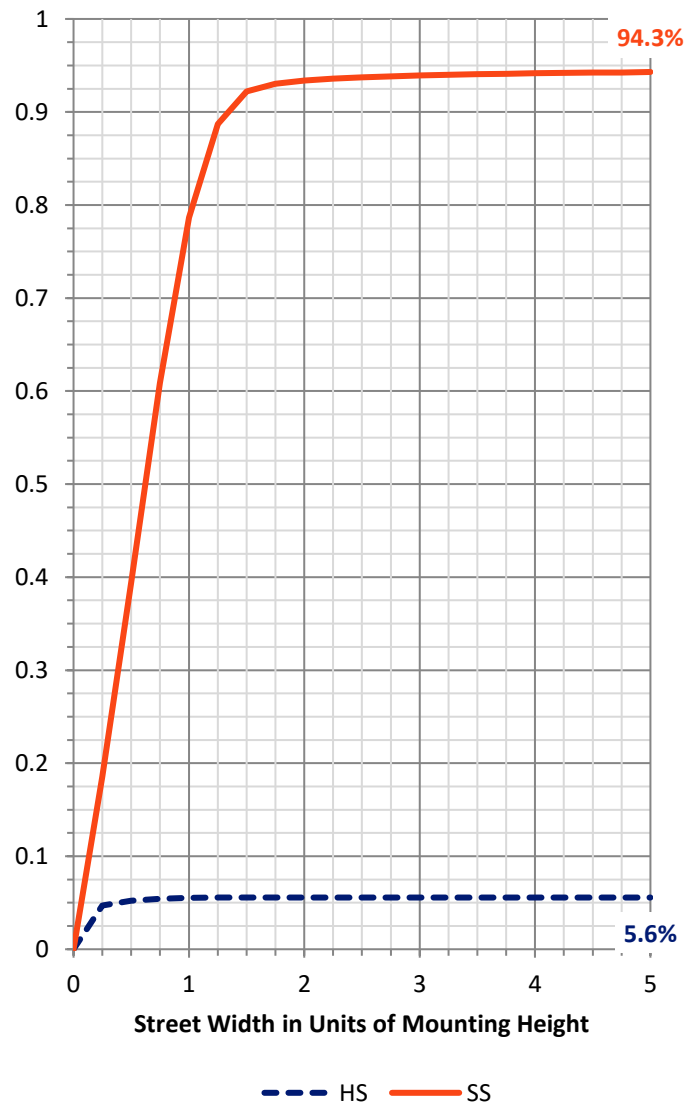
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2105.1	0.0	2105.1
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	35582.8	0.0	35582.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	37687.9	0.0	37687.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	888.6	2.4
10°-20°	2127.6	5.6
20°-30°	3620.4	9.6
30°-40°	6226.2	16.5
40°-50°	9612.6	25.5
50°-60°	9663.7	25.6
60°-70°	4955.6	13.1
70°-80°	537.0	1.4
80°-90°	56.1	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°	37687.9	100.0
0°-180°	37687.9	100.0

Coefficient of Utilization



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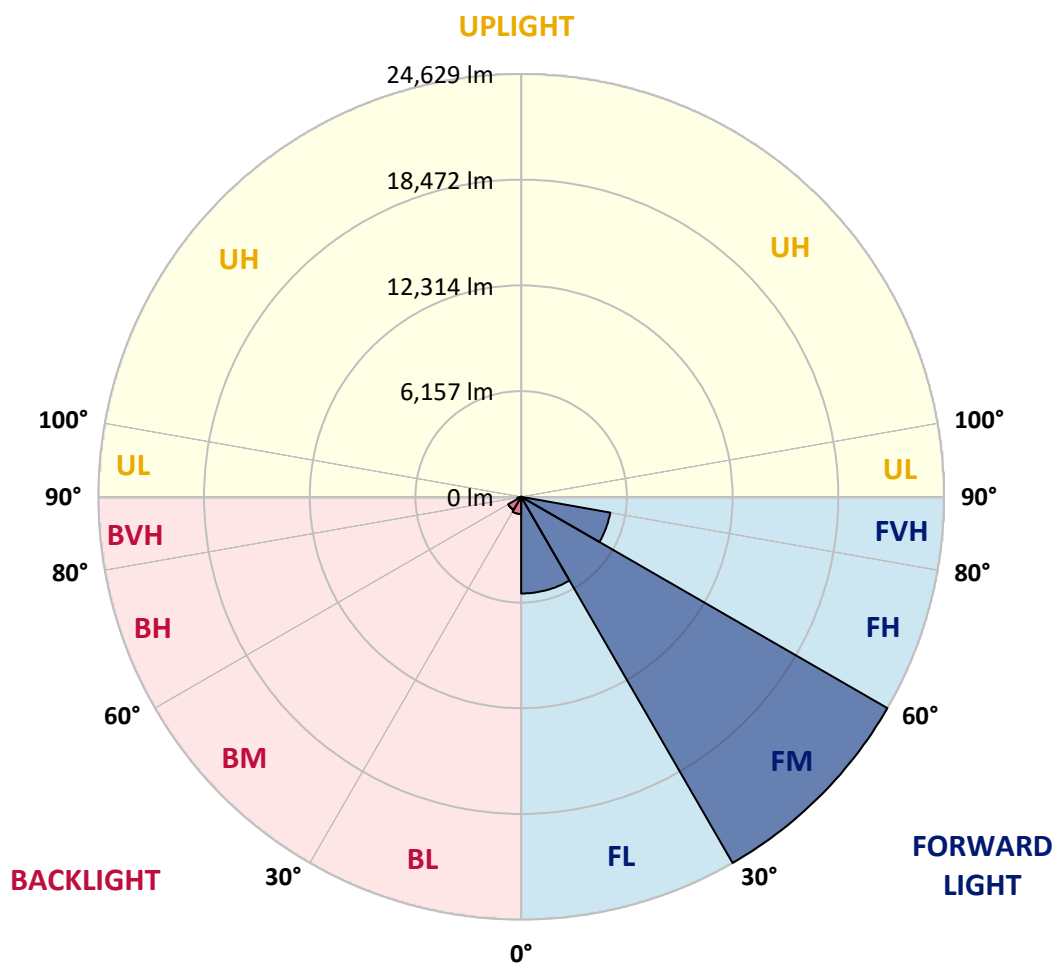
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5631.8	14.9			
FM	(30°-60°)	24628.9	65.3			
FH	(60°-80°)	5267.1	14.0			G3/7500
FVH	(80°-90°)	55.0	0.1			G1/100
BL	(0°-30°)	1004.8	2.7	B3/2500		
BM	(30°-60°)	873.7	2.3	B1/1000		
BH	(60°-80°)	225.5	0.6	B1/500		G1/500
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	10609.0	10609.0	10609.0	10609.0	10609.0	10609.0	10609.0	10609.0	10609.0	10609.0	10609.0
2.5°	12552.9	12419.4	12379.4	12352.8	12230.4	12076.9	11867.8	11770.0	11569.8	11247.3	10851.4
5°	13702.7	13678.2	13589.3	13540.4	13409.2	13191.2	12857.6	12697.4	12379.4	11836.7	11127.2
7.5°	13200.0	13353.5	13475.9	13680.5	13938.5	13929.6	13649.3	13482.6	13126.7	12410.5	11434.2
10°	11258.4	11382.9	11583.1	12048.0	12995.6	13831.7	14160.9	14040.8	13756.1	12937.6	11730.0
12.5°	10878.1	10864.7	10900.4	11036.1	11532.0	12724.2	14074.1	14316.6	14258.8	13420.4	12010.3
15°	11080.5	11064.9	11060.6	11107.2	11227.3	11730.0	13422.5	14118.7	14565.7	13867.3	12248.2
17.5°	11647.7	11580.9	11545.3	11507.5	11472.0	11596.6	12639.6	13564.9	14612.5	14258.8	12446.2
20°	12619.6	12508.4	12377.2	12163.7	11963.5	11901.2	12310.5	12995.6	14445.6	14556.8	12575.0
22.5°	13840.6	13698.3	13471.4	13082.2	12675.1	12439.5	12472.8	12815.3	14196.5	14881.5	12635.2
25°	15212.9	15030.6	14728.0	14187.7	13589.3	13171.2	12953.2	13073.3	14083.1	15261.9	12704.1
27.5°	16683.1	16480.6	16084.7	15348.6	14670.2	14105.3	13660.4	13645.0	14276.6	15760.0	12815.3
30°	18139.9	18108.7	17592.7	16814.2	15915.7	15228.4	14588.0	14505.7	14816.9	16449.5	13035.5
32.5°	20083.7	19850.2	19218.4	18417.9	17381.4	16556.3	15797.9	15606.6	15646.6	17252.5	13375.8
35°	22534.7	22278.9	21389.2	20283.9	19125.1	18150.9	17312.4	17052.2	16954.5	18566.9	13949.5
37.5°	24118.2	24113.8	23555.5	22430.2	21186.9	20112.7	19200.7	18896.1	18698.1	20154.8	14839.3
40°	24160.5	24265.1	24338.5	24327.3	23442.1	22452.3	21642.8	21267.0	20806.6	22276.7	15989.1
42.5°	22863.8	23132.9	23780.2	24878.9	25403.8	25010.1	24327.3	23958.2	23273.1	24547.5	17390.4
45°	21111.3	21298.1	22430.2	24454.1	26467.0	27545.6	27025.2	26364.6	25461.6	26916.1	18647.0
47.5°	20326.1	20359.5	21091.2	23313.0	26546.9	29622.9	29938.7	28864.5	27450.0	28824.4	19629.9
50°	17979.7	18039.8	19049.5	21335.9	25608.4	30603.7	32865.6	31847.0	29618.4	30294.7	19988.1
52.5°	13551.5	13636.0	14917.0	18086.4	23028.5	30185.6	34960.8	34714.0	31993.9	31013.0	20008.1
55°	7995.7	8106.9	9330.2	12174.8	18113.1	27525.5	35116.5	36023.9	33868.7	31437.8	19977.0
57.5°	3734.3	3812.2	4512.7	6272.0	11265.0	21754.1	32772.4	35125.3	34903.0	31662.5	20197.1
60°	1983.9	2006.1	2175.2	2715.6	5090.9	13794.0	28197.3	31718.1	33960.0	31973.8	20466.2
62.5°	1516.8	1523.5	1514.7	1579.2	2139.7	6123.0	21313.6	26075.5	30163.4	31740.3	20168.2
65°	1314.5	1325.6	1263.2	1247.7	1372.3	2184.1	12661.8	18586.8	23702.3	28588.7	18137.6
67.5°	1178.8	1183.3	1107.6	1043.1	1065.4	1181.0	4995.4	10175.4	15688.9	20955.6	13146.7
70°	1085.4	1080.9	998.6	896.4	867.4	807.3	1588.0	3729.8	7497.5	10626.8	6114.0
72.5°	960.8	963.0	923.0	789.5	720.6	564.9	736.2	1087.5	2237.4	2895.8	1432.3
75°	851.7	840.7	791.8	707.2	593.9	371.4	364.7	484.9	689.4	685.0	309.2
77.5°	616.1	605.0	620.5	580.5	455.9	240.2	182.4	233.5	280.2	271.3	86.8
80°	451.5	444.8	400.3	482.6	402.5	164.6	113.4	124.5	144.5	122.4	26.7
82.5°	309.2	306.9	282.4	266.9	229.1	100.1	71.1	77.8	93.4	69.0	13.3
85°	48.9	55.6	204.7	162.4	135.7	44.5	48.9	53.4	62.3	37.8	4.5
87.5°	0.0	0.0	95.6	84.5	26.7	17.8	29.0	31.1	31.1	20.0	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°	10609.0	10609.0	10609.0	10609.0	10609.0	10609.0	10609.0	10609.0	10609.0	10609.0	10609.0
2.5°	10649.1	10426.6	10015.1	9590.3	9196.7	8727.4	8404.9	8162.4	7882.3	7806.6	7971.2
5°	10722.4	10302.0	9416.8	8453.8	7548.6	6545.5	5778.2	5171.0	4621.6	4434.9	4603.8
7.5°	10838.1	10213.1	8769.7	7183.9	5609.2	4043.4	2971.5	2266.4	1817.1	1683.6	1754.8
10°	10953.8	10084.1	8020.1	5680.4	3527.4	1968.3	1281.1	1023.1	927.5	907.4	918.6
12.5°	11049.4	9910.6	7106.0	4039.0	1886.1	1054.3	838.4	796.3	782.9	782.9	787.3
15°	11107.2	9648.1	6022.9	2568.8	1085.4	796.3	731.7	718.4	718.4	720.6	725.1
17.5°	11100.5	9314.6	4837.5	1554.6	811.8	705.0	667.2	656.1	653.9	658.3	660.6
20°	11018.2	8878.6	3647.5	1025.3	707.2	642.8	605.0	585.0	582.7	587.2	591.6
22.5°	10862.5	8340.5	2608.9	789.5	638.3	582.7	536.0	518.2	518.2	522.7	527.0
25°	10673.5	7682.1	1783.7	669.4	576.1	518.2	473.7	458.2	462.6	473.7	476.0
27.5°	10437.7	6941.5	1212.1	573.8	500.4	453.8	420.3	409.2	420.3	436.0	440.5
30°	10235.4	6169.7	865.3	495.9	424.8	391.4	371.4	371.4	387.0	415.9	422.7
32.5°	10079.7	5422.4	667.2	438.1	369.2	340.4	329.2	340.4	364.7	393.7	400.3
35°	10059.6	4806.4	564.9	391.4	329.2	300.3	295.8	315.9	340.4	362.5	367.0
37.5°	10213.1	4237.0	509.3	353.7	293.6	266.9	262.4	287.0	311.4	338.0	344.7
40°	10504.5	3789.8	469.3	318.1	264.6	235.8	226.8	244.6	278.1	313.6	322.6
42.5°	10882.6	3420.7	424.8	282.4	235.8	195.7	184.6	204.7	240.2	278.1	289.1
45°	11242.9	3102.6	375.9	242.4	198.0	151.3	146.9	173.5	191.3	229.1	237.9
47.5°	11440.9	2822.3	333.6	198.0	153.5	122.4	122.4	129.0	146.9	191.3	200.2
50°	11374.1	2597.7	289.1	146.9	106.7	93.4	93.4	91.2	117.9	153.5	160.2
52.5°	11240.7	2468.7	249.1	113.4	73.4	66.7	60.1	66.7	82.3	97.9	100.1
55°	11220.6	2446.6	209.0	91.2	51.2	44.5	33.4	33.4	33.4	31.1	26.7
57.5°	11376.3	2482.2	175.7	73.4	37.8	29.0	17.8	0.0	0.0	0.0	0.0
60°	11536.4	2519.9	151.3	51.2	26.7	15.6	2.1	0.0	0.0	0.0	0.0
62.5°	11269.5	2435.4	126.7	31.1	20.0	6.7	0.0	0.0	0.0	0.0	0.0
65°	9899.6	2072.8	100.1	22.3	13.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7041.5	1387.8	66.7	13.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	3213.9	580.5	42.3	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	687.2	180.2	29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	140.1	131.2	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	44.5	206.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	26.7	149.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.5	22.3	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)