

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: P193478

Luminaire Tested: **GAN-AF-10-LED-U-AFL-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193478
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-8030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 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: 39356 lumens
Efficiency: N/A
Efficacy: 70.5 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): 558
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

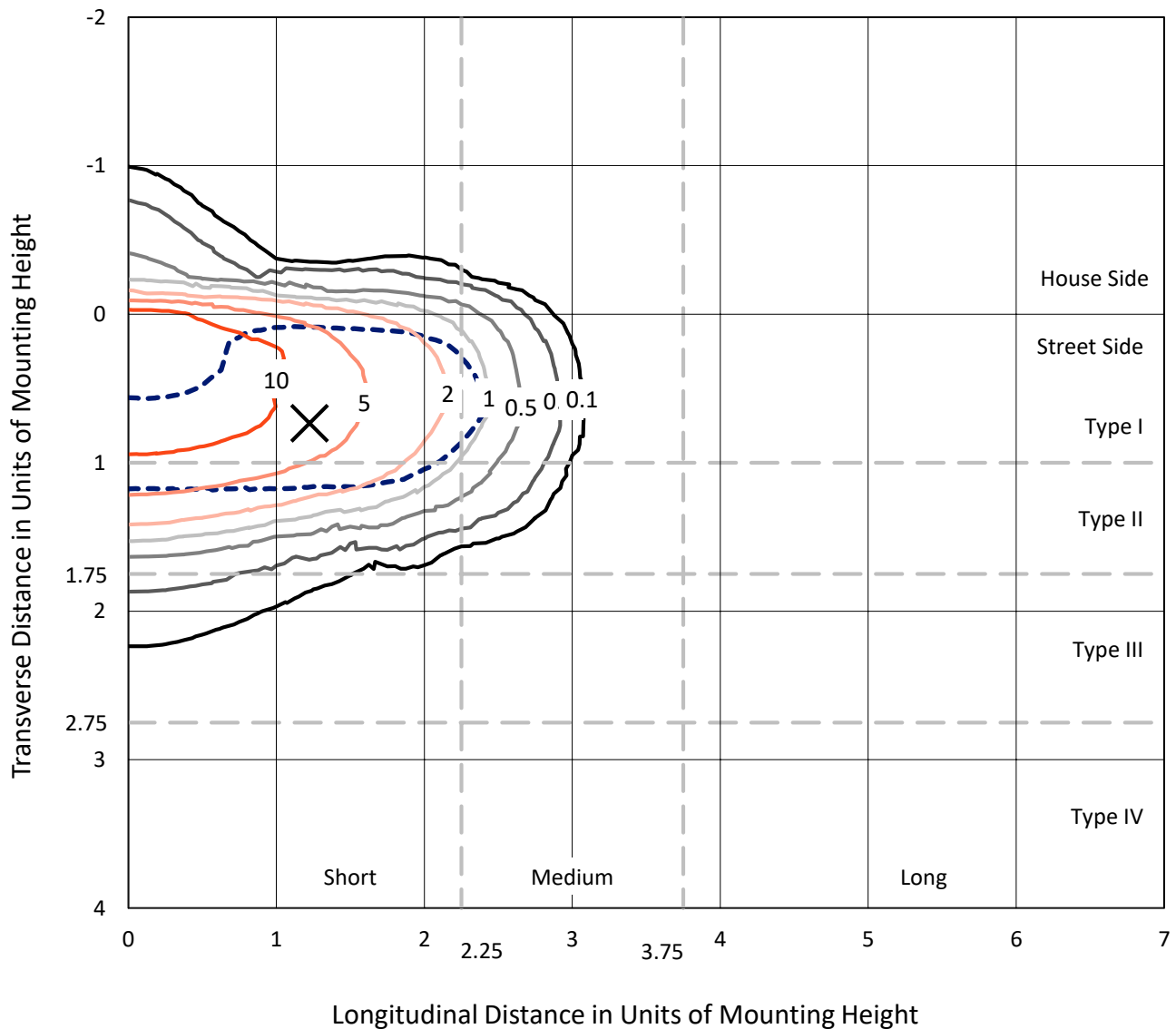


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

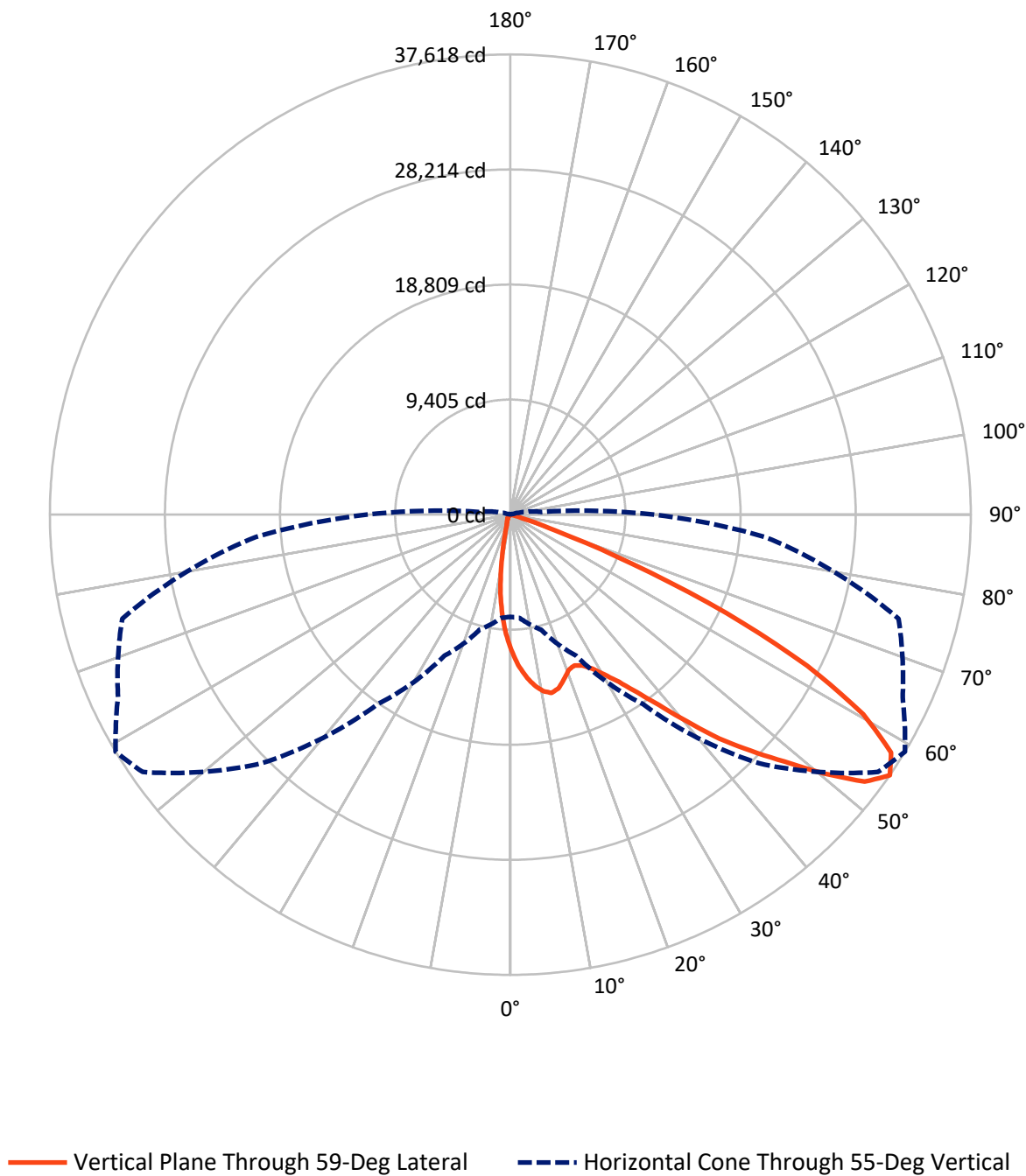


Based on 30 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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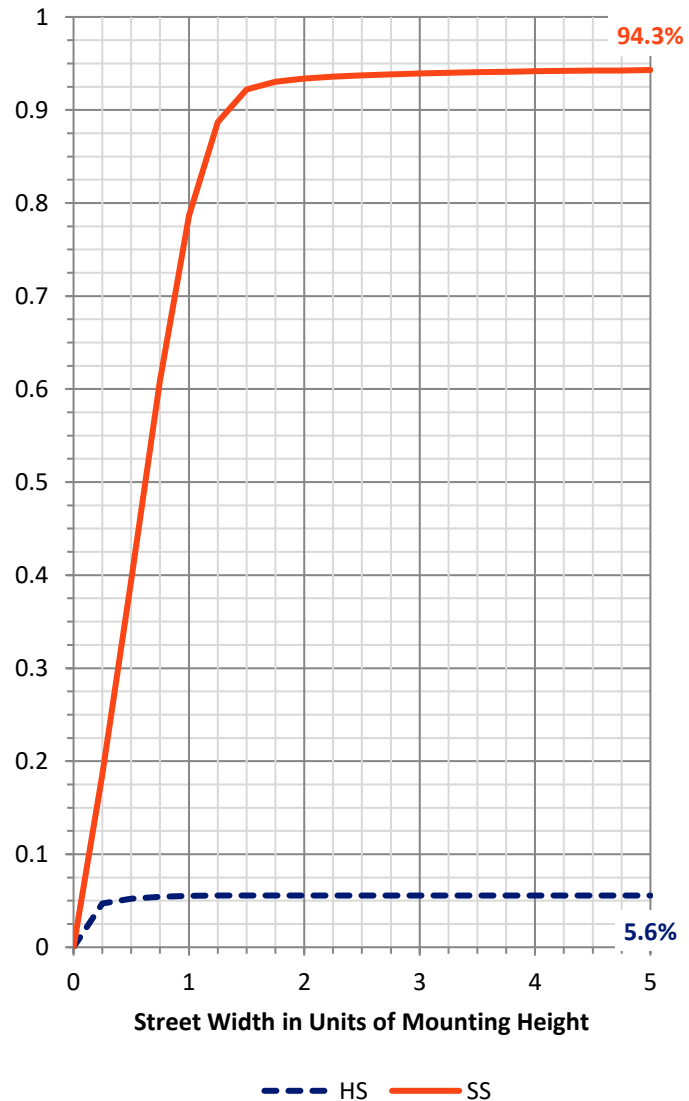
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2198.3	0.0	2198.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	37157.8	0.0	37157.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	39356.0	0.0	39356.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	927.9	2.4
10°-20°	2221.8	5.6
20°-30°	3780.6	9.6
30°-40°	6501.8	16.5
40°-50°	10038.1	25.5
50°-60°	10091.4	25.6
60°-70°	5175.0	13.1
70°-80°	560.8	1.4
80°-90°	58.6	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°	39356.0	100.0
0°-180°	39356.0	100.0

Coefficient of Utilization



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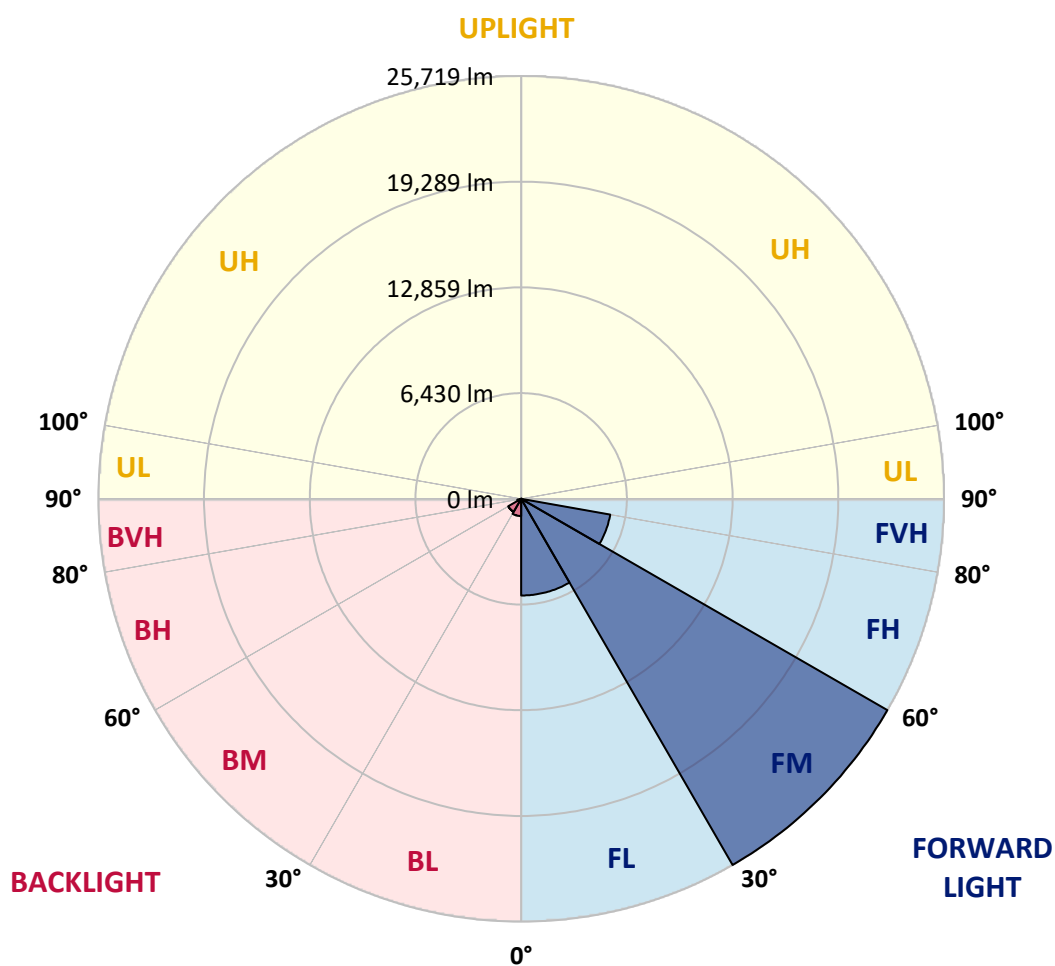
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5881.1	14.9			
FM	(30°-60°)	25719.0	65.3			
FH	(60°-80°)	5500.3	14.0			G3/7500
FVH	(80°-90°)	57.4	0.1			G1/100
BL	(0°-30°)	1049.2	2.7	B3/2500		
BM	(30°-60°)	912.3	2.3	B1/1000		
BH	(60°-80°)	235.5	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°	11078.6	11078.6	11078.6	11078.6	11078.6	11078.6	11078.6	11078.6	11078.6	11078.6	11078.6
2.5°	13108.5	12969.1	12927.3	12899.5	12771.7	12611.5	12393.1	12290.9	12081.9	11745.1	11331.7
5°	14309.2	14283.7	14190.8	14139.7	14002.7	13775.1	13426.7	13259.4	12927.3	12360.6	11619.7
7.5°	13784.3	13944.6	14072.3	14286.0	14555.4	14546.1	14253.5	14079.3	13707.7	12959.8	11940.2
10°	11756.8	11886.8	12095.8	12581.3	13570.7	14443.9	14787.7	14662.3	14365.0	13510.3	12249.1
12.5°	11359.6	11345.7	11382.8	11524.5	12042.4	13287.3	14697.1	14950.3	14889.9	14014.3	12541.8
15°	11571.0	11554.7	11550.0	11598.8	11724.2	12249.1	14016.6	14743.6	15210.4	14481.1	12790.3
17.5°	12163.2	12093.5	12056.4	12016.9	11979.7	12109.8	13199.1	14165.2	15259.2	14889.9	12997.0
20°	13178.2	13062.0	12925.0	12702.0	12493.0	12428.0	12855.3	13570.7	15085.0	15201.1	13131.7
22.5°	14453.2	14304.6	14067.7	13661.2	13236.2	12990.0	13024.9	13382.5	14824.8	15540.2	13194.4
25°	15886.3	15695.8	15379.9	14815.6	14190.8	13754.2	13526.5	13652.0	14706.4	15937.4	13266.4
27.5°	17421.5	17210.1	16796.7	16027.9	15319.6	14729.6	14265.1	14248.9	14908.5	16457.6	13382.5
30°	18942.7	18910.2	18371.4	17558.5	16620.2	15902.5	15233.6	15147.7	15472.8	17177.6	13612.5
32.5°	20972.6	20728.8	20069.2	19233.1	18150.7	17289.1	16497.1	16297.3	16339.2	18016.0	13967.8
35°	23532.1	23265.0	22336.0	21181.7	19971.6	18954.3	18078.7	17807.0	17704.8	19388.7	14567.0
37.5°	25185.8	25181.1	24598.1	23422.9	22124.6	21002.8	20050.6	19732.4	19525.7	21047.0	15496.1
40°	25229.9	25339.0	25415.7	25404.1	24479.7	23446.2	22600.8	22208.2	21727.5	23262.7	16696.8
42.5°	23875.8	24156.9	24832.7	25980.1	26528.2	26117.1	25404.1	25018.5	24303.2	25634.0	18160.0
45°	22045.7	22240.8	23422.9	25536.5	27638.4	28764.8	28221.3	27531.5	26588.6	28107.5	19472.3
47.5°	21225.8	21260.6	22024.8	24345.0	27722.0	30934.1	31263.9	30142.1	28664.9	30100.3	20498.8
50°	18775.5	18838.2	19892.7	22280.2	26741.9	31958.3	34320.3	33256.6	30929.4	31635.5	20872.8
52.5°	14151.3	14239.6	15577.4	18887.0	24047.7	31521.7	36508.2	36250.4	33409.9	32385.7	20893.7
55°	8349.6	8465.7	9743.1	12713.6	18914.9	28743.9	36670.8	37618.4	35367.8	32829.3	20861.2
57.5°	3899.6	3980.9	4712.5	6549.6	11763.7	22716.9	34222.8	36680.1	36447.8	33063.8	21091.1
60°	2071.7	2094.9	2271.5	2835.8	5316.3	14404.5	29445.3	33121.9	35463.0	33389.0	21372.1
62.5°	1584.0	1590.9	1581.7	1649.0	2234.3	6394.0	22257.0	27229.6	31498.4	33145.1	21060.9
65°	1372.6	1384.2	1319.2	1303.0	1433.0	2280.7	13222.3	19409.6	24751.4	29854.1	18940.4
67.5°	1231.0	1235.6	1156.6	1089.3	1112.5	1233.3	5216.5	10625.7	16383.3	21883.1	13728.6
70°	1133.4	1128.8	1042.8	936.0	905.8	843.1	1658.3	3894.9	7829.3	11097.2	6384.7
72.5°	1003.3	1005.7	963.9	824.5	752.5	589.9	768.8	1135.7	2336.5	3024.0	1495.7
75°	889.5	877.9	826.8	738.6	620.1	387.9	380.9	506.3	720.0	715.3	322.8
77.5°	643.3	631.7	648.0	606.2	476.1	250.8	190.4	243.9	292.6	283.4	90.6
80°	471.5	464.5	418.1	504.0	420.4	171.9	118.5	130.1	151.0	127.7	27.9
82.5°	322.8	320.5	295.0	278.7	239.2	104.5	74.3	81.3	97.5	72.0	13.9
85°	51.1	58.1	213.7	169.5	141.7	46.5	51.1	55.7	65.0	39.5	4.6
87.5°	0.0	0.0	99.9	88.3	27.9	18.6	30.2	32.5	32.5	20.9	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°	11078.6	11078.6	11078.6	11078.6	11078.6	11078.6	11078.6	11078.6	11078.6	11078.6	11078.6
2.5°	11120.4	10888.1	10458.5	10014.8	9603.8	9113.7	8776.9	8523.8	8231.1	8152.2	8324.0
5°	11197.0	10758.1	9833.7	8828.0	7882.7	6835.3	6034.0	5399.9	4826.3	4631.2	4807.7
7.5°	11317.8	10665.2	9157.8	7501.8	5857.5	4222.4	3102.9	2366.7	1897.5	1758.2	1832.5
10°	11438.6	10530.4	8375.1	5931.8	3683.6	2055.5	1337.8	1068.4	968.5	947.6	959.2
12.5°	11538.4	10349.3	7420.6	4217.8	1969.5	1100.9	875.6	831.5	817.5	817.5	822.2
15°	11598.8	10075.2	6289.5	2682.5	1133.4	831.5	764.1	750.2	750.2	752.5	757.2
17.5°	11591.9	9726.8	5051.6	1623.5	847.7	736.2	696.8	685.2	682.8	687.5	689.8
20°	11505.9	9271.6	3809.0	1070.7	738.6	671.2	631.7	610.8	608.5	613.2	617.8
22.5°	11343.3	8709.6	2724.4	824.5	666.6	608.5	559.7	541.2	541.2	545.8	550.4
25°	11145.9	8022.1	1862.7	699.1	601.5	541.2	494.7	478.4	483.1	494.7	497.0
27.5°	10899.7	7248.7	1265.8	599.2	522.6	473.8	439.0	427.3	439.0	455.2	459.9
30°	10688.4	6442.8	903.5	517.9	443.6	408.8	387.9	387.9	404.1	434.3	441.3
32.5°	10525.8	5662.4	696.8	457.5	385.5	355.4	343.7	355.4	380.9	411.1	418.1
35°	10504.9	5019.0	589.9	408.8	343.7	313.5	308.9	329.8	355.4	378.6	383.2
37.5°	10665.2	4424.5	531.9	369.3	306.6	278.7	274.1	299.6	325.2	353.0	360.0
40°	10969.4	3957.6	490.1	332.1	276.4	246.2	236.9	255.5	290.3	327.5	336.8
42.5°	11364.2	3572.1	443.6	295.0	246.2	204.4	192.8	213.7	250.8	290.3	301.9
45°	11740.5	3240.0	392.5	253.2	206.7	157.9	153.3	181.2	199.7	239.2	248.5
47.5°	11947.2	2947.3	348.4	206.7	160.3	127.7	127.7	134.7	153.3	199.7	209.0
50°	11877.5	2712.7	301.9	153.3	111.5	97.5	97.5	95.2	123.1	160.3	167.2
52.5°	11738.2	2578.0	260.1	118.5	76.6	69.7	62.7	69.7	85.9	102.2	104.5
55°	11717.3	2554.8	218.3	95.2	53.4	46.5	34.8	34.8	34.8	32.5	27.9
57.5°	11879.9	2592.0	183.5	76.6	39.5	30.2	18.6	0.0	0.0	0.0	0.0
60°	12047.1	2631.5	157.9	53.4	27.9	16.3	2.3	0.0	0.0	0.0	0.0
62.5°	11768.4	2543.2	132.4	32.5	20.9	7.0	0.0	0.0	0.0	0.0	0.0
65°	10337.7	2164.6	104.5	23.2	13.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7353.2	1449.3	69.7	13.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	3356.1	606.2	44.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	717.7	188.1	30.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	146.3	137.0	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	46.5	216.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	27.9	155.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.6	23.2	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)