

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: P192658

Luminaire Tested: **GAN-AF-10-LED-U-AFL-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192658
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-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA 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: 30733.5 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 323
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



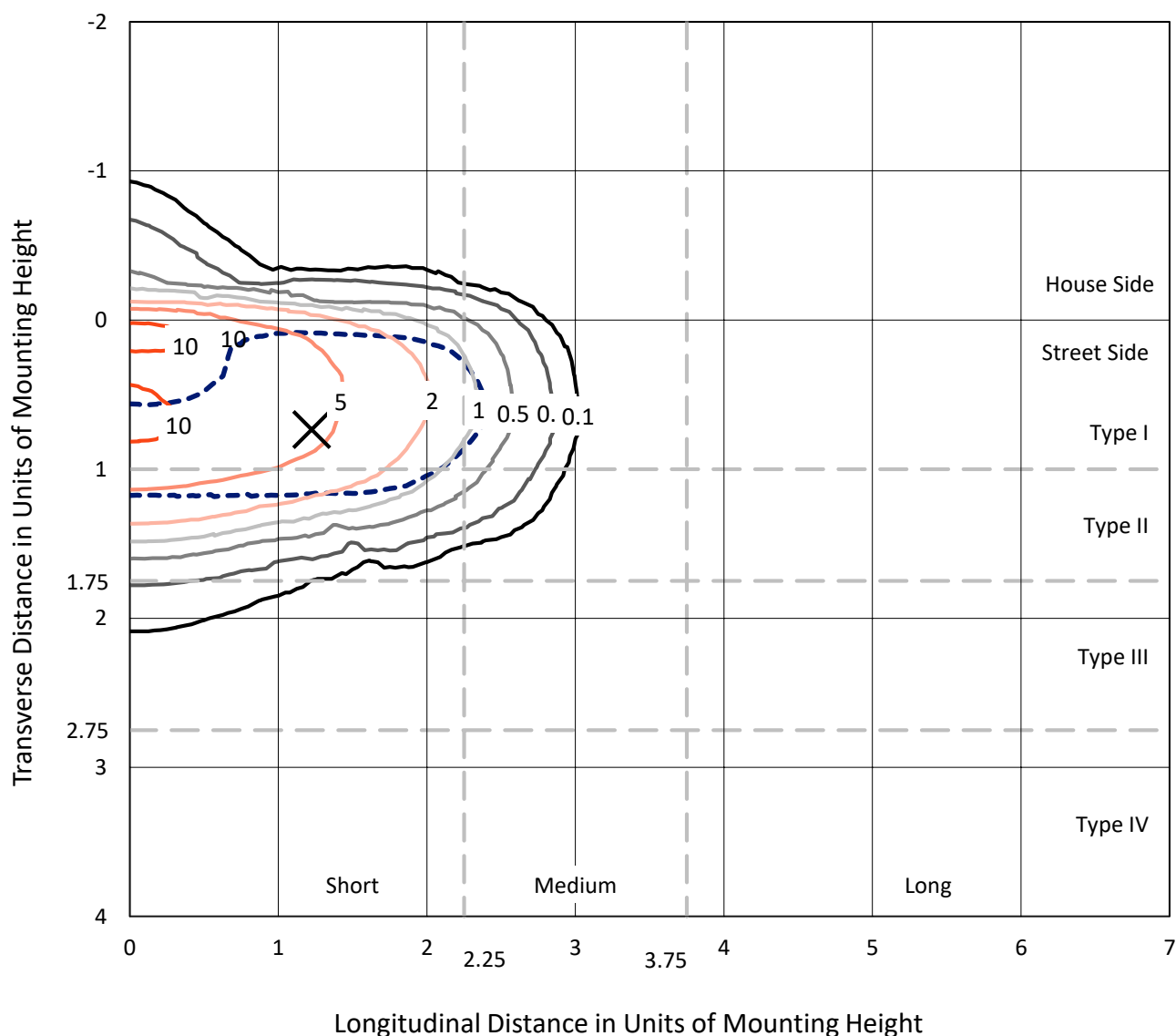
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

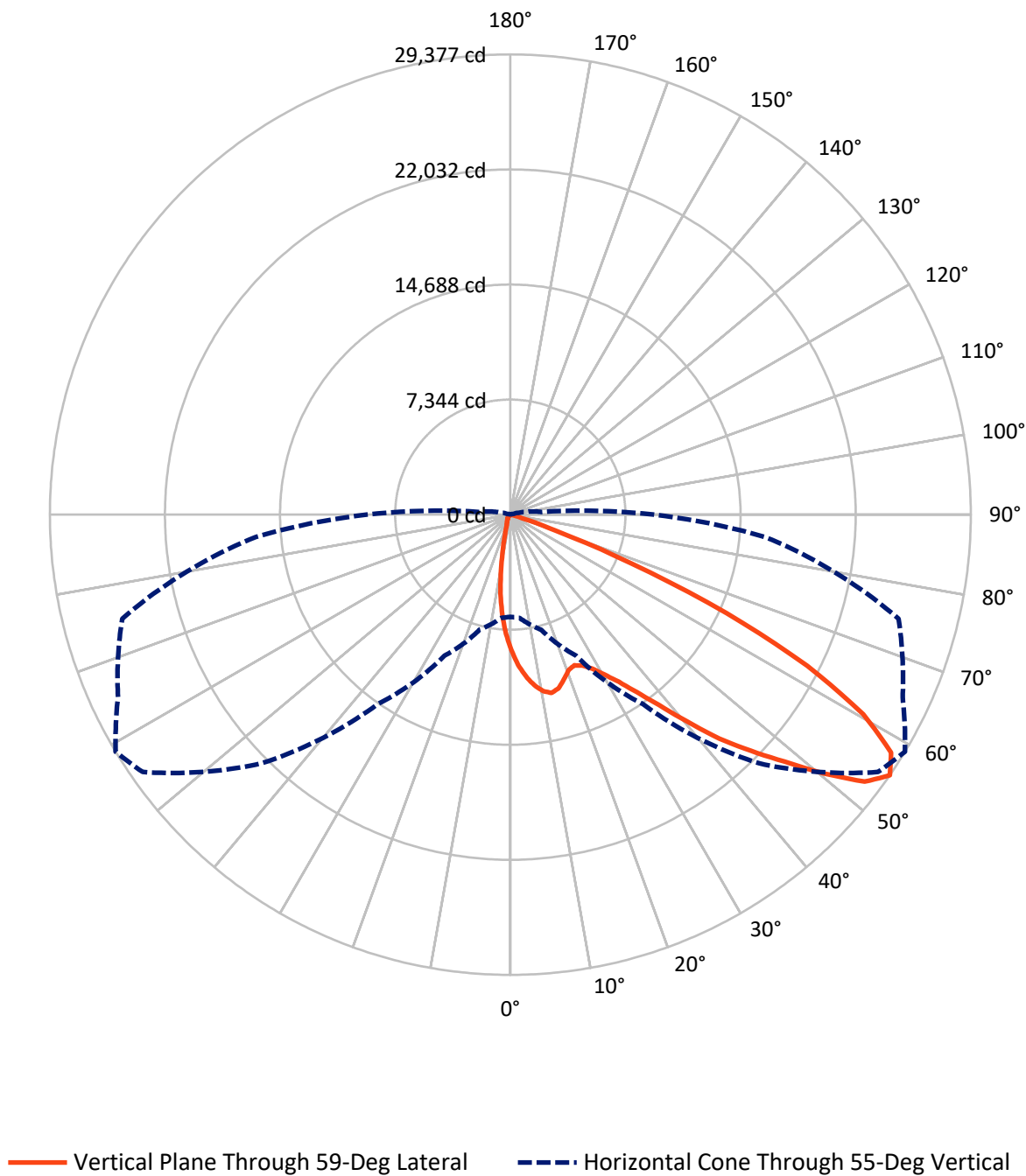


Based on 30 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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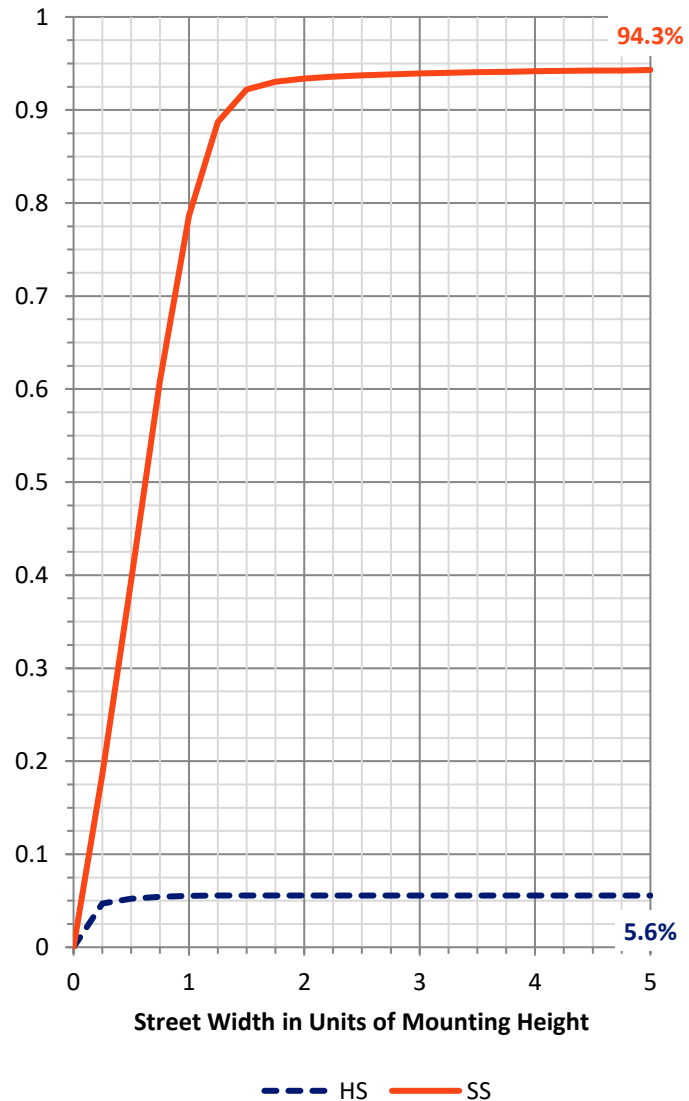
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1716.6	0.0	1716.6
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	29016.9	0.0	29016.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	30733.5	0.0	30733.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	724.6	2.4
10°-20°	1735.0	5.6
20°-30°	2952.3	9.6
30°-40°	5077.3	16.5
40°-50°	7838.8	25.5
50°-60°	7880.5	25.6
60°-70°	4041.2	13.1
70°-80°	437.9	1.4
80°-90°	45.8	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°	30733.5	100.0
0°-180°	30733.5	100.0

Coefficient of Utilization



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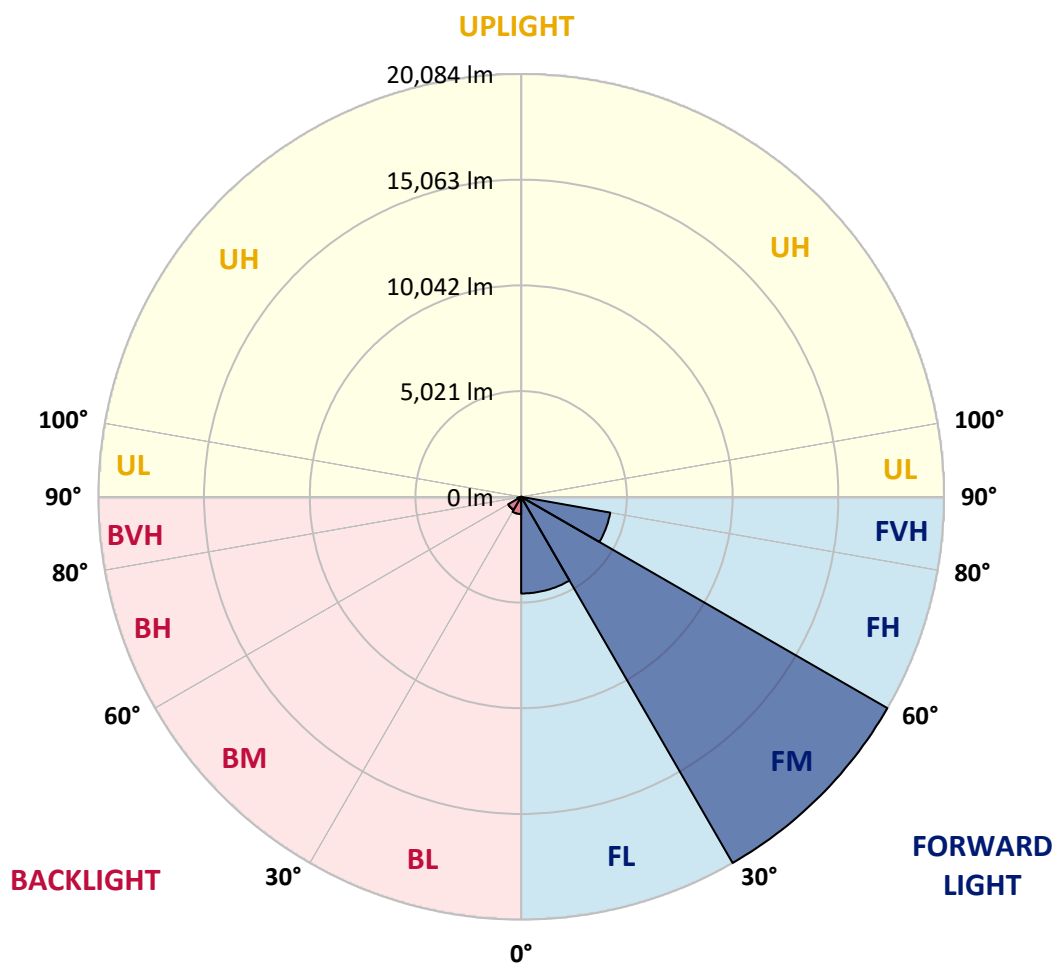
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4592.6	14.9			
FM	(30°-60°)	20084.2	65.3			
FH	(60°-80°)	4295.2	14.0			G2/5000
FVH	(80°-90°)	44.8	0.1			G1/100
BL	(0°-30°)	819.4	2.7	B2/1000		
BM	(30°-60°)	712.4	2.3	B1/1000		
BH	(60°-80°)	183.9	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°	8651.3	8651.3	8651.3	8651.3	8651.3	8651.3	8651.3	8651.3	8651.3	8651.3	8651.3
2.5°	10236.6	10127.8	10095.1	10073.3	9973.6	9848.4	9677.9	9598.1	9434.9	9171.9	8849.1
5°	11174.3	11154.3	11081.7	11041.8	10934.8	10757.1	10485.1	10354.5	10095.1	9652.5	9074.0
7.5°	10764.3	10889.6	10989.3	11156.1	11366.5	11359.2	11130.7	10994.6	10704.4	10120.4	9324.3
10°	9180.9	9282.5	9445.8	9824.8	10597.5	11279.5	11547.8	11450.0	11217.7	10550.3	9565.5
12.5°	8870.9	8860.0	8889.0	8999.5	9404.1	10376.3	11477.1	11674.8	11627.7	10944.0	9794.0
15°	9035.8	9023.1	9019.6	9057.7	9155.6	9565.5	10945.7	11513.4	11878.0	11308.5	9988.1
17.5°	9498.4	9444.0	9415.0	9384.2	9355.1	9456.7	10307.3	11061.9	11916.1	11627.7	10149.5
20°	10291.0	10200.3	10093.3	9919.2	9756.0	9705.2	10038.8	10597.5	11780.0	11870.7	10254.7
22.5°	11286.7	11170.6	10985.6	10668.2	10336.4	10144.0	10171.3	10450.5	11576.9	12135.5	10303.7
25°	12405.8	12257.0	12010.4	11569.7	11081.7	10740.7	10563.0	10661.0	11484.4	12445.6	10359.9
27.5°	13604.6	13439.6	13116.7	12516.4	11963.3	11502.5	11139.7	11127.1	11642.2	12851.9	10450.5
30°	14792.6	14767.2	14346.4	13711.6	12978.9	12418.4	11896.1	11829.0	12082.9	13414.2	10630.2
32.5°	16377.8	16187.3	15672.2	15019.4	14174.1	13501.2	12882.8	12726.7	12759.4	14068.9	10907.7
35°	18376.5	18167.8	17442.3	16541.0	15596.1	14801.7	14117.9	13905.7	13825.8	15140.8	11375.5
37.5°	19667.9	19664.2	19209.0	18291.2	17277.3	16401.4	15657.7	15409.3	15247.7	16435.8	12101.0
40°	19702.2	19787.5	19847.4	19838.3	19116.4	18309.3	17649.2	17342.6	16967.2	18166.1	13038.8
42.5°	18644.9	18864.3	19392.1	20288.2	20716.1	20395.1	19838.3	19537.2	18978.7	20017.8	14181.5
45°	17215.7	17368.1	18291.2	19941.7	21583.1	22462.7	22038.3	21499.7	20763.3	21949.5	15206.1
47.5°	16575.5	16602.7	17199.4	19011.2	21648.4	24156.7	24414.3	23538.3	22384.8	23505.6	16007.8
50°	14662.0	14711.0	15534.4	17398.9	20883.0	24956.6	26801.2	25970.5	24153.2	24704.5	16299.8
52.5°	11050.9	11119.9	12164.5	14749.0	18779.2	24615.7	28509.7	28308.3	26090.1	25290.4	16316.1
55°	6520.3	6610.9	7608.5	9928.3	14770.9	22446.4	28636.7	29376.6	27619.1	25636.7	16290.7
57.5°	3045.2	3108.7	3680.0	5114.7	9186.4	17739.9	26725.0	28643.9	28462.5	25819.9	16470.3
60°	1617.8	1635.9	1773.9	2214.5	4151.6	11248.6	22994.1	25865.3	27693.5	26073.8	16689.7
62.5°	1237.0	1242.4	1235.1	1287.7	1744.8	4993.1	17380.8	21263.9	24597.5	25883.4	16446.7
65°	1072.0	1081.0	1030.2	1017.5	1119.1	1781.0	10325.4	15157.1	19328.6	23313.4	14790.8
67.5°	961.3	964.9	903.2	850.6	868.7	963.1	4073.6	8297.7	12793.9	17088.7	10720.8
70°	885.1	881.5	814.3	731.0	707.4	658.4	1294.9	3041.6	6114.0	8665.9	4985.8
72.5°	783.5	785.3	752.7	643.9	587.6	460.6	600.4	886.8	1824.6	2361.4	1168.0
75°	694.7	685.6	645.7	576.8	484.2	302.8	297.4	395.4	562.2	558.7	252.1
77.5°	502.4	493.3	506.0	473.4	371.8	195.9	148.7	190.4	228.6	221.2	70.7
80°	368.2	362.7	326.4	393.6	328.4	134.2	92.6	101.6	117.9	99.8	21.8
82.5°	252.1	250.3	230.3	217.7	186.9	81.6	58.0	63.5	76.2	56.3	10.9
85°	39.9	45.4	166.8	132.4	110.7	36.3	39.9	43.4	50.8	30.8	3.6
87.5°	0.0	0.0	78.0	69.0	21.8	14.5	23.6	25.3	25.3	16.3	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°	8651.3	8651.3	8651.3	8651.3	8651.3	8651.3	8651.3	8651.3	8651.3	8651.3	8651.3
2.5°	8684.0	8502.7	8167.1	7820.7	7499.7	7116.9	6854.0	6656.3	6427.7	6366.1	6500.3
5°	8743.9	8401.1	7679.3	6893.9	6155.6	5337.8	4712.1	4216.9	3768.9	3616.5	3754.3
7.5°	8838.2	8328.5	7151.4	5858.3	4574.1	3297.3	2423.2	1848.1	1481.8	1373.0	1431.0
10°	8932.5	8223.4	6540.3	4632.1	2876.6	1605.1	1044.7	834.3	756.3	740.0	749.1
12.5°	9010.5	8081.9	5794.8	3293.7	1538.1	859.7	683.8	649.3	638.4	638.4	642.0
15°	9057.7	7867.9	4911.5	2094.8	885.1	649.3	596.7	585.8	585.8	587.6	591.3
17.5°	9052.2	7595.8	3944.8	1267.7	662.0	574.9	544.1	535.1	533.1	536.9	538.6
20°	8985.2	7240.3	2974.5	836.2	576.8	524.1	493.3	477.0	475.2	478.8	482.5
22.5°	8858.2	6801.4	2127.5	643.9	520.5	475.2	437.1	422.7	422.7	426.2	429.8
25°	8704.0	6264.5	1454.6	546.0	469.7	422.7	386.3	373.6	377.3	386.3	388.1
27.5°	8511.8	5660.6	988.5	467.9	408.1	370.0	342.7	333.7	342.7	355.5	359.1
30°	8346.7	5031.2	705.5	404.5	346.5	319.2	302.8	302.8	315.5	339.1	344.6
32.5°	8219.7	4421.8	544.1	357.3	301.1	277.5	268.4	277.5	297.4	321.0	326.4
35°	8203.4	3919.4	460.6	319.2	268.4	244.8	241.3	257.6	277.5	295.6	299.3
37.5°	8328.5	3455.1	415.3	288.3	239.4	217.7	214.0	234.0	253.9	275.7	281.2
40°	8566.2	3090.5	382.7	259.4	215.8	192.3	184.9	199.5	226.7	255.7	263.0
42.5°	8874.5	2789.5	346.5	230.3	192.3	159.6	150.6	166.8	195.9	226.7	235.8
45°	9168.3	2530.1	306.5	197.6	161.3	123.4	119.7	141.5	156.0	186.9	194.1
47.5°	9329.7	2301.5	272.0	161.3	125.1	99.8	99.8	105.2	119.7	156.0	163.3
50°	9275.3	2118.4	235.8	119.7	87.1	76.2	76.2	74.4	96.1	125.1	130.6
52.5°	9166.6	2013.2	203.1	92.6	59.9	54.4	48.9	54.4	67.0	79.8	81.6
55°	9150.1	1995.1	170.5	74.4	41.7	36.3	27.2	27.2	27.2	25.3	21.8
57.5°	9277.1	2024.1	143.2	59.9	30.8	23.6	14.5	0.0	0.0	0.0	0.0
60°	9407.7	2054.9	123.4	41.7	21.8	12.7	1.8	0.0	0.0	0.0	0.0
62.5°	9190.1	1986.0	103.4	25.3	16.3	5.5	0.0	0.0	0.0	0.0	0.0
65°	8072.8	1690.4	81.6	18.1	10.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5742.2	1131.7	54.4	10.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	2620.8	473.4	34.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	560.4	147.0	23.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	114.2	107.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	36.3	168.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	21.8	121.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.6	18.1	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)