

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: P192676

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192676
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 37770.9 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 445
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

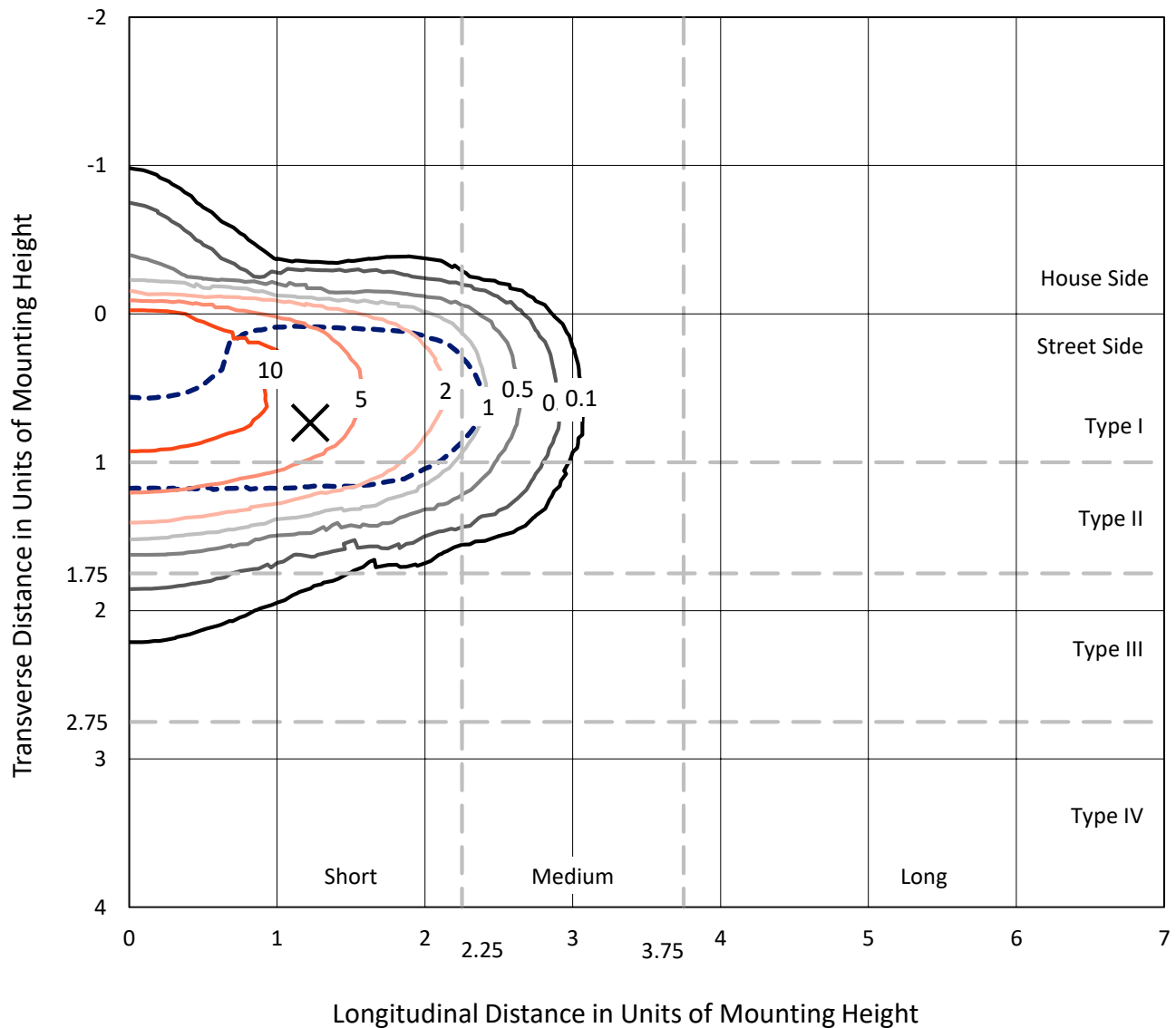


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

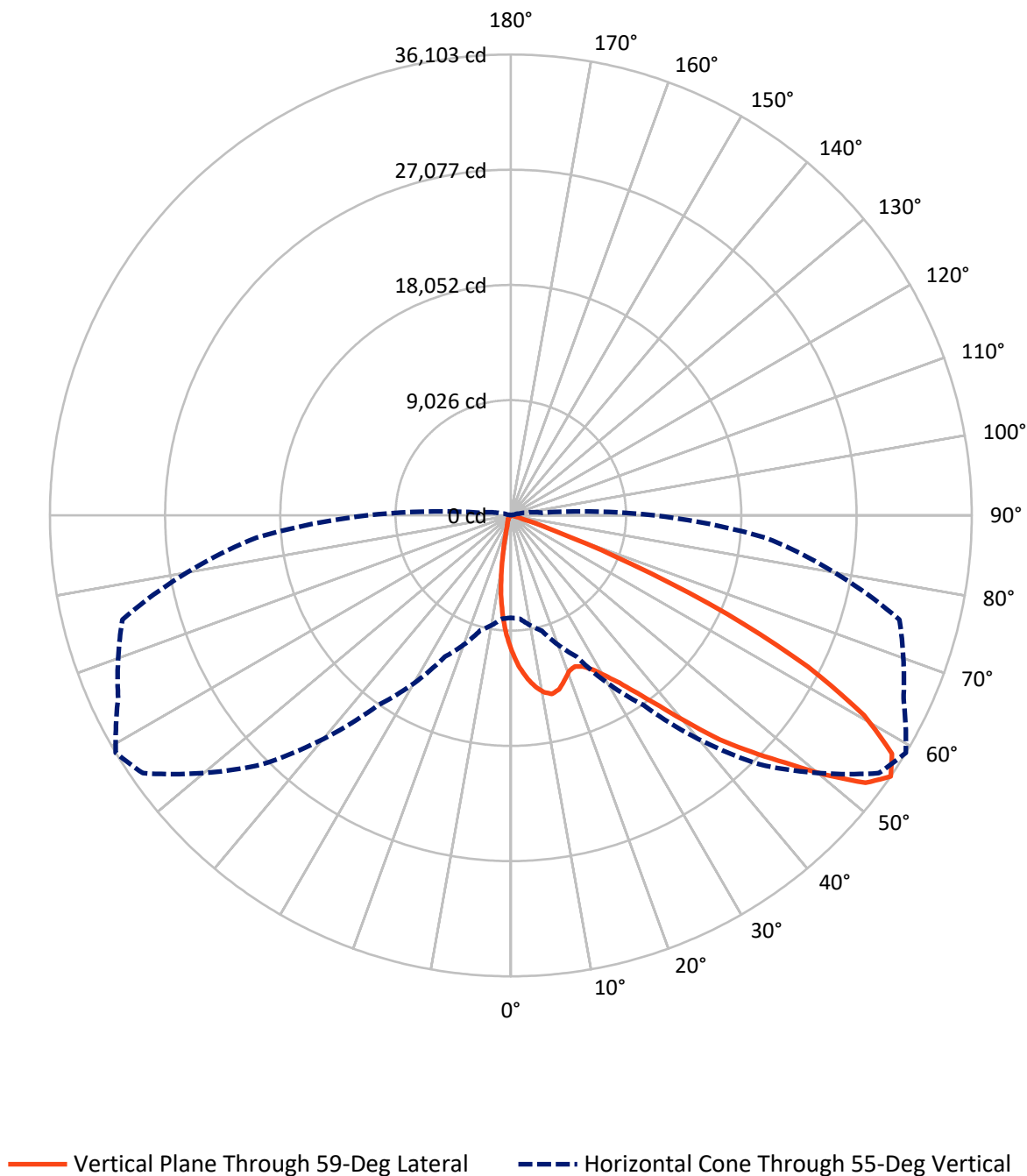


Based on 30 foot mounting height. Maximum calculated value = 14.7 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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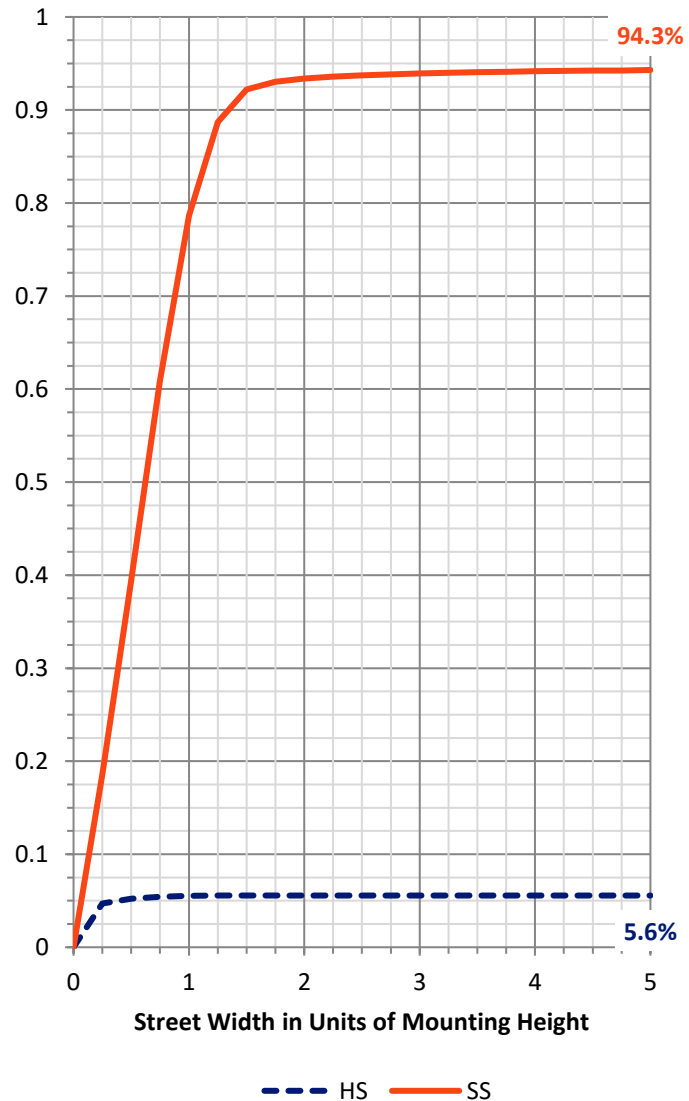
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2109.7	0.0	2109.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	35661.2	0.0	35661.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	37770.9	0.0	37770.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	890.6	2.4
10°-20°	2132.3	5.6
20°-30°	3628.3	9.6
30°-40°	6239.9	16.5
40°-50°	9633.8	25.5
50°-60°	9685.0	25.6
60°-70°	4966.5	13.1
70°-80°	538.2	1.4
80°-90°	56.3	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°	37770.9	100.0
0°-180°	37770.9	100.0

Coefficient of Utilization



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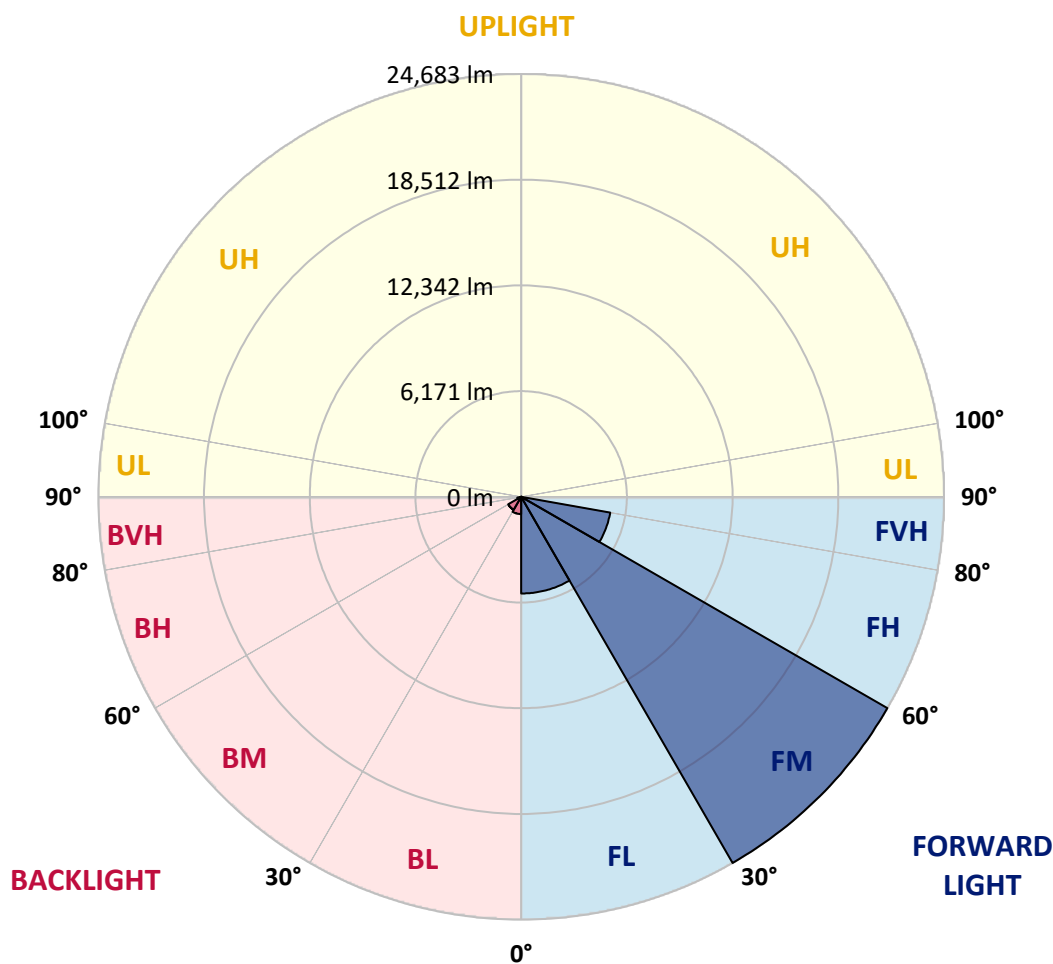
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5644.2	14.9			
FM	(30°-60°)	24683.1	65.3			
FH	(60°-80°)	5278.7	14.0			G3/7500
FVH	(80°-90°)	55.1	0.1			G1/100
BL	(0°-30°)	1007.0	2.7	B3/2500		
BM	(30°-60°)	875.6	2.3	B1/1000		
BH	(60°-80°)	226.0	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°	10632.3	10632.3	10632.3	10632.3	10632.3	10632.3	10632.3	10632.3	10632.3	10632.3	10632.3
2.5°	12580.5	12446.9	12406.7	12379.9	12257.4	12103.5	11894.0	11795.9	11595.3	11272.1	10875.3
5°	13732.9	13708.4	13619.2	13570.2	13438.7	13220.3	12885.9	12725.4	12406.7	11862.9	11151.8
7.5°	13229.2	13382.9	13505.5	13710.6	13969.3	13960.3	13679.5	13512.3	13155.6	12437.8	11459.3
10°	11283.2	11408.1	11608.7	12074.6	13024.1	13862.3	14192.1	14071.7	13786.5	12966.2	11755.8
12.5°	10902.1	10888.7	10924.4	11060.4	11557.5	12752.2	14105.2	14348.2	14290.2	13449.9	12036.6
15°	11104.9	11089.4	11084.9	11131.7	11252.1	11755.8	13452.1	14149.7	14597.8	13897.9	12275.2
17.5°	11673.4	11606.5	11570.8	11532.9	11497.3	11622.0	12667.5	13594.7	14644.6	14290.2	12473.6
20°	12647.5	12536.0	12404.4	12190.5	11989.9	11927.4	12337.5	13024.1	14477.4	14588.9	12602.8
22.5°	13871.1	13728.4	13501.1	13111.0	12703.1	12466.8	12500.3	12843.5	14227.7	14914.3	12663.0
25°	15246.5	15063.7	14760.5	14218.9	13619.2	13200.1	12981.7	13102.2	14114.1	15295.4	12732.1
27.5°	16719.8	16516.9	16120.2	15382.4	14702.6	14136.4	13690.6	13675.0	14308.0	15794.7	12843.5
30°	18179.7	18148.6	17631.5	16851.3	15950.8	15262.0	14620.1	14537.6	14849.7	16485.8	13064.2
32.5°	20128.0	19893.9	19260.9	18458.5	17419.8	16592.7	15832.6	15641.0	15681.1	17290.4	13405.2
35°	22584.3	22328.0	21436.3	20328.6	19167.3	18190.9	17350.6	17089.8	16991.8	18607.7	13980.4
37.5°	24171.4	24166.9	23607.4	22479.5	21233.6	20156.9	19243.1	18937.7	18739.3	20199.3	14872.0
40°	24213.7	24318.5	24392.0	24380.8	23493.8	22501.8	21690.4	21313.8	20852.3	22325.8	16024.4
42.5°	22914.2	23183.9	23832.6	24933.7	25459.7	25065.1	24380.8	24011.0	23324.3	24601.6	17428.6
45°	21157.7	21345.0	22479.5	24508.0	26525.2	27606.3	27084.8	26422.7	25517.7	26975.4	18688.0
47.5°	20371.0	20404.3	21137.8	23364.4	26605.5	29688.2	30004.7	28928.1	27510.5	28887.9	19673.2
50°	18019.4	18079.4	19091.5	21382.9	25664.8	30671.2	32938.1	31917.3	29683.8	30361.4	20032.1
52.5°	13581.4	13666.0	14950.0	18126.3	23079.2	30252.1	35037.8	34790.5	32064.4	31081.3	20052.2
55°	8013.3	8124.7	9350.7	12201.6	18153.1	27586.3	35193.8	36103.3	33943.3	31507.1	20021.0
57.5°	3742.4	3820.6	4522.7	6285.8	11290.0	21801.9	32844.4	35202.8	34979.9	31732.1	20241.6
60°	1988.3	2010.6	2179.9	2721.6	5102.2	13824.3	28259.4	31787.9	34034.8	32044.2	20511.4
62.5°	1520.3	1526.9	1517.9	1582.6	2144.3	6136.4	21360.6	26132.9	30229.9	31810.2	20212.6
65°	1317.3	1328.5	1266.1	1250.5	1375.2	2188.9	12689.8	18627.8	23754.6	28651.7	18177.6
67.5°	1181.4	1185.8	1110.1	1045.4	1067.7	1183.6	5006.4	10197.7	15723.4	21001.7	13175.7
70°	1087.7	1083.3	1000.9	898.3	869.2	809.2	1591.5	3738.1	7514.0	10650.3	6127.6
72.5°	962.9	965.2	925.0	791.2	722.2	566.2	737.8	1090.0	2242.4	2902.2	1435.4
75°	853.8	842.6	793.6	708.9	595.1	372.2	365.6	485.8	690.9	686.5	309.9
77.5°	617.5	606.3	621.9	581.8	456.9	240.7	182.8	234.1	280.9	271.9	87.0
80°	452.5	445.8	401.2	483.7	403.5	165.0	113.6	124.8	144.9	122.6	26.8
82.5°	309.9	307.6	283.1	267.4	229.6	100.3	71.3	78.0	93.6	69.1	13.3
85°	49.0	55.7	205.1	162.7	135.9	44.6	49.0	53.5	62.4	37.9	4.5
87.5°	0.0	0.0	95.8	84.6	26.8	17.8	29.0	31.2	31.2	20.1	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°	10632.3	10632.3	10632.3	10632.3	10632.3	10632.3	10632.3	10632.3	10632.3	10632.3	10632.3
2.5°	10672.6	10449.5	10037.2	9611.5	9217.0	8746.6	8423.5	8180.5	7899.7	7823.8	7988.8
5°	10746.0	10324.8	9437.6	8472.5	7565.2	6559.9	5791.0	5182.5	4631.9	4444.6	4614.0
7.5°	10862.0	10235.6	8789.1	7199.7	5621.6	4052.3	2978.0	2271.4	1821.2	1687.4	1758.6
10°	10977.9	10106.4	8037.7	5692.9	3535.2	1972.6	1283.9	1025.4	929.5	909.5	920.6
12.5°	11073.8	9932.4	7121.7	4047.8	1890.1	1056.5	840.3	798.0	784.6	784.6	789.1
15°	11131.7	9669.5	6036.1	2574.4	1087.7	798.0	733.3	720.0	720.0	722.2	726.7
17.5°	11125.0	9335.1	4848.1	1558.0	813.6	706.6	668.6	657.5	655.3	659.8	662.0
20°	11042.5	8898.2	3655.6	1027.6	708.9	644.2	606.3	586.1	584.0	588.5	592.9
22.5°	10886.5	8358.8	2614.7	791.2	639.7	584.0	537.2	519.3	519.3	523.8	528.3
25°	10697.0	7699.0	1787.7	671.0	577.3	519.3	474.7	459.2	463.6	474.7	477.0
27.5°	10460.7	6956.7	1214.9	575.0	501.5	454.7	421.3	410.2	421.3	436.9	441.3
30°	10258.0	6183.3	867.1	497.0	425.8	392.3	372.2	372.2	387.9	416.9	423.5
32.5°	10101.9	5434.3	668.6	439.1	370.1	341.0	329.9	341.0	365.6	394.5	401.2
35°	10081.8	4816.9	566.2	392.3	329.9	300.9	296.4	316.6	341.0	363.3	367.7
37.5°	10235.6	4246.3	510.5	354.4	294.2	267.4	263.0	287.6	312.1	338.8	345.5
40°	10527.5	3798.2	470.4	318.7	265.3	236.3	227.4	245.2	278.6	314.3	323.2
42.5°	10906.6	3428.2	425.8	283.1	236.3	196.1	184.9	205.1	240.7	278.6	289.7
45°	11267.7	3109.5	376.7	243.0	198.5	151.6	147.1	173.8	191.6	229.6	238.5
47.5°	11466.0	2828.6	334.4	198.5	153.8	122.6	122.6	129.3	147.1	191.6	200.6
50°	11399.1	2603.4	289.7	147.1	107.0	93.6	93.6	91.3	118.1	153.8	160.5
52.5°	11265.4	2474.1	249.6	113.6	73.5	66.8	60.2	66.8	82.5	98.2	100.3
55°	11245.4	2451.9	209.6	91.3	51.3	44.6	33.5	33.5	33.5	31.2	26.8
57.5°	11401.4	2487.7	176.1	73.5	37.9	29.0	17.8	0.0	0.0	0.0	0.0
60°	11562.0	2525.4	151.6	51.3	26.8	15.7	2.1	0.0	0.0	0.0	0.0
62.5°	11294.3	2440.8	127.1	31.2	20.1	6.7	0.0	0.0	0.0	0.0	0.0
65°	9921.3	2077.4	100.3	22.3	13.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7057.0	1390.9	66.8	13.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	3221.0	581.8	42.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	688.8	180.5	29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	140.4	131.5	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	44.6	207.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	26.8	149.3	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)