

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: P321401

Luminaire Tested: **GAN-SA7B-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23985 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

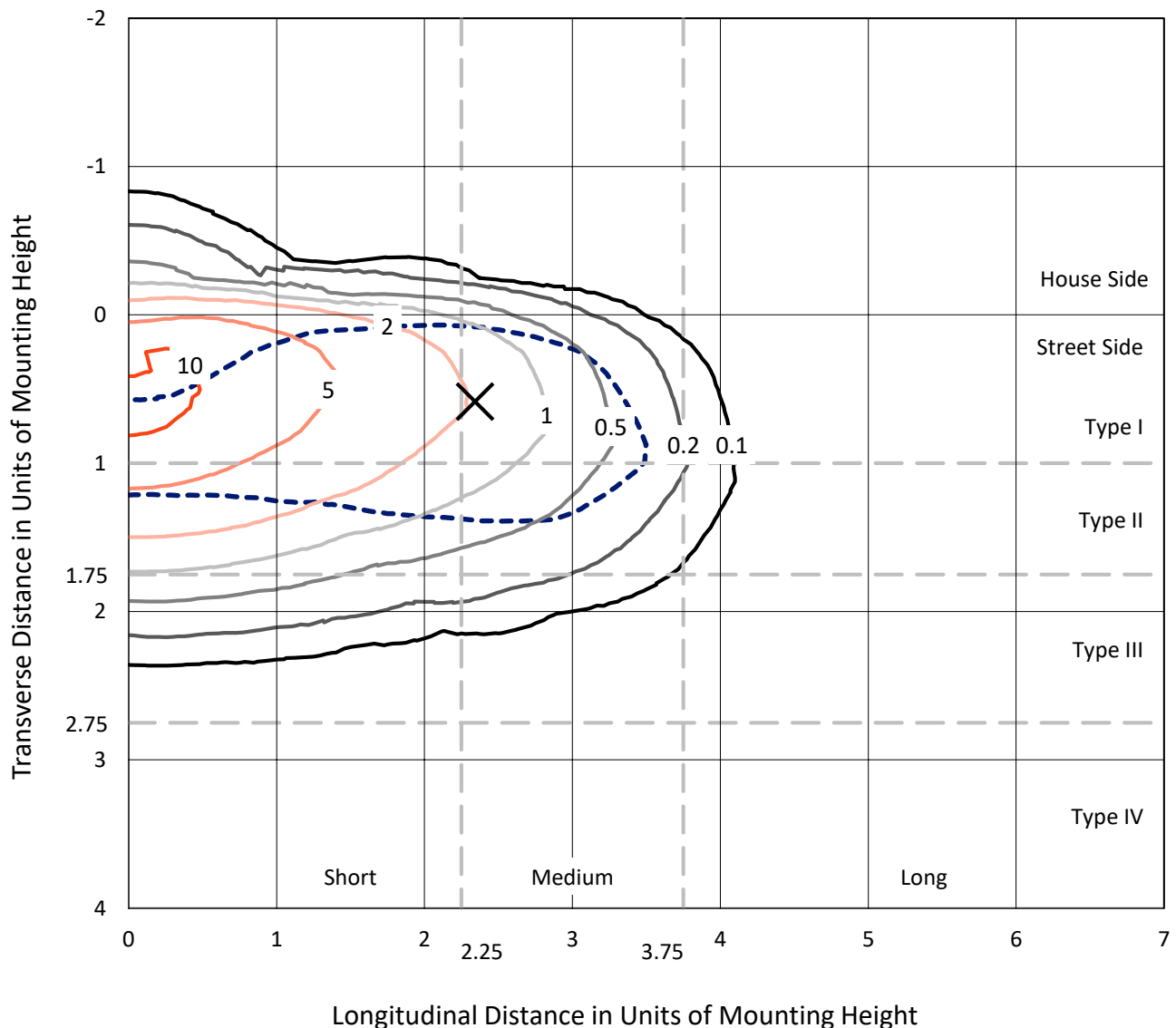
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

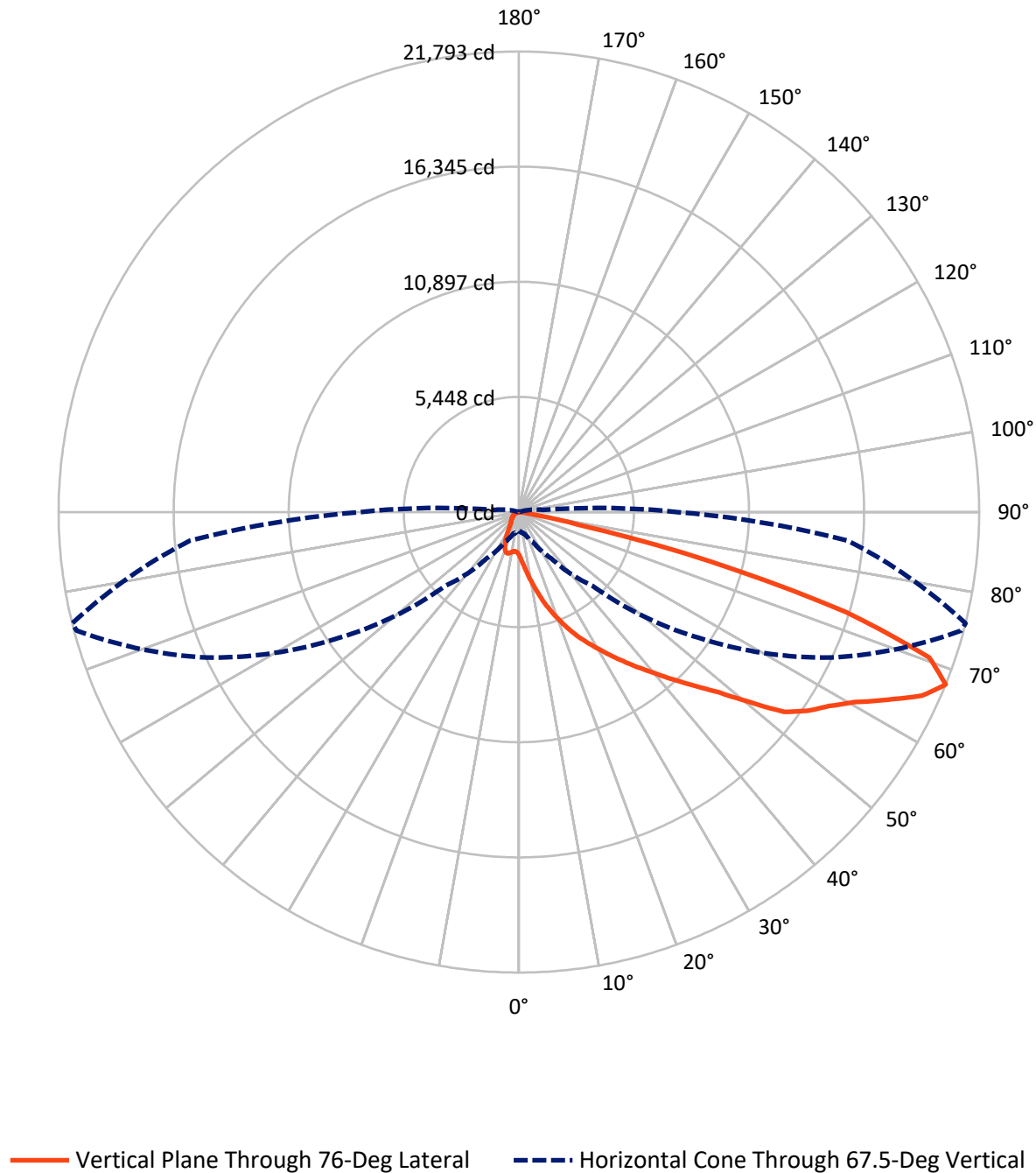
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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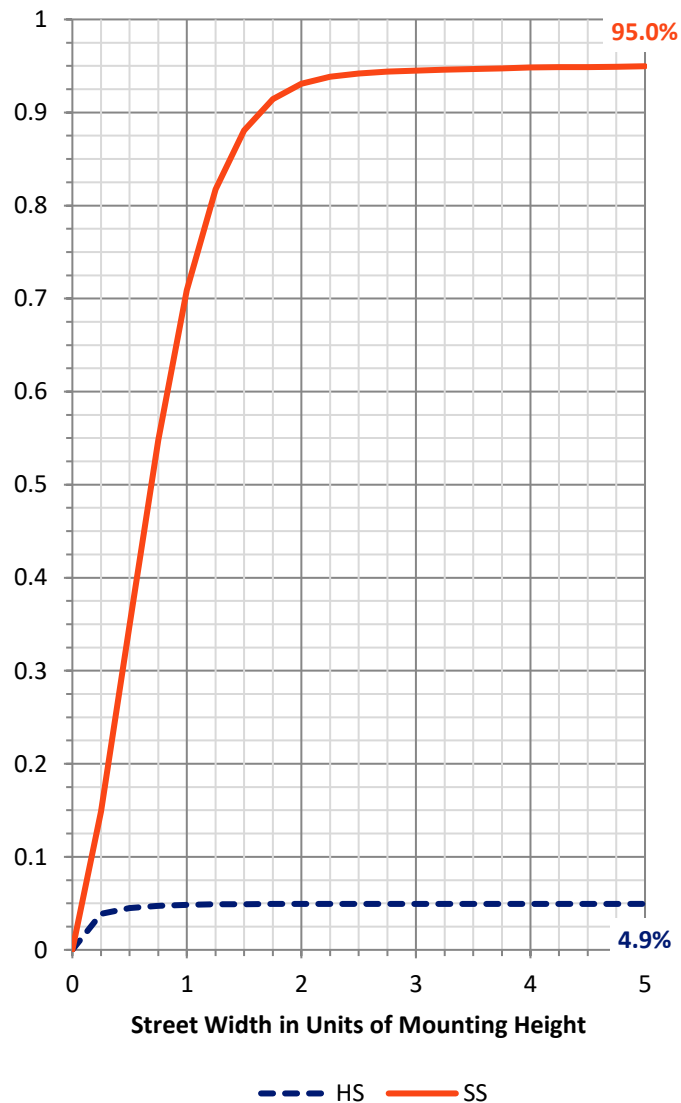
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1191.0	0.0	1191.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	22794.0	0.0	22794.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	23985.0	0.0	23985.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.0	1.1
10°-20°	1002.9	4.2
20°-30°	2040.6	8.5
30°-40°	3541.9	14.8
40°-50°	5004.3	20.9
50°-60°	5675.1	23.7
60°-70°	4706.9	19.6
70°-80°	1705.0	7.1
80°-90°	55.3	0.2
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°	23985.0	100.0
0°-180°	23985.0	100.0

Coefficient of Utilization



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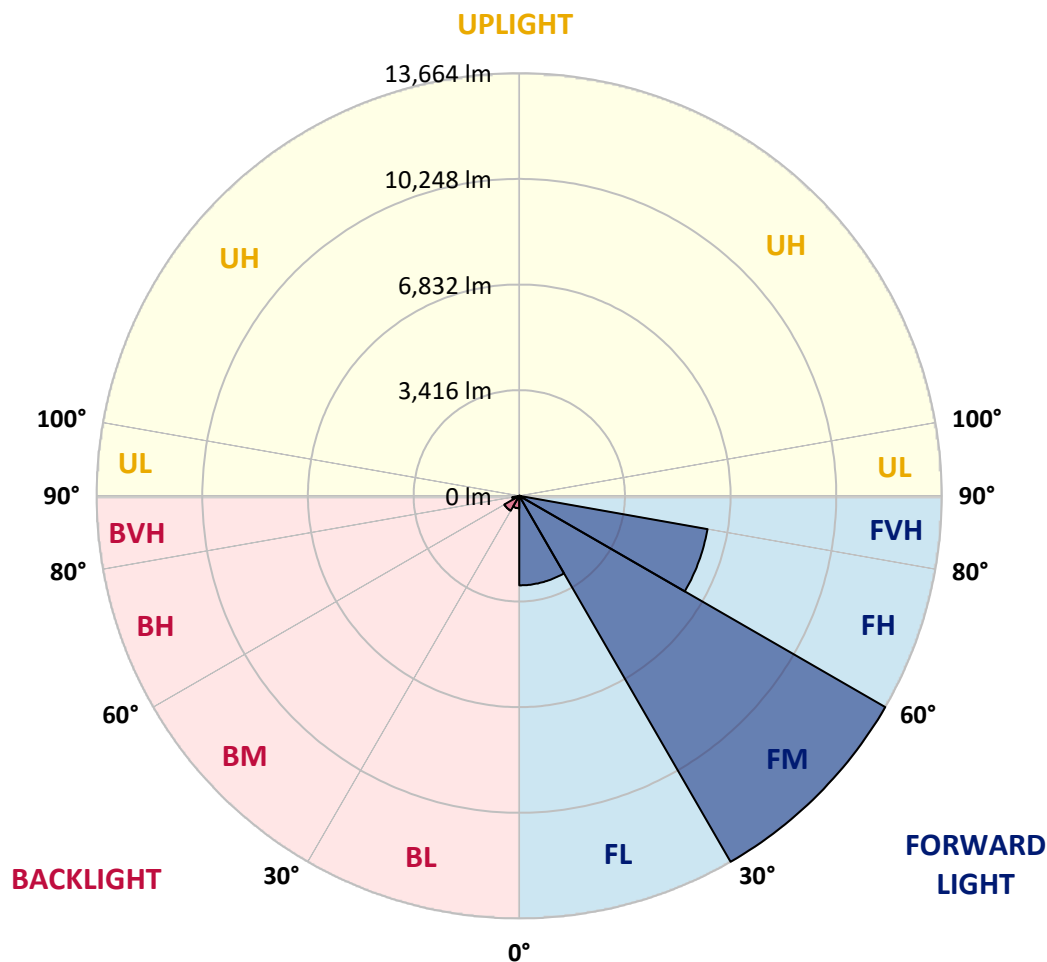
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2894.9	12.1			
FM	(30°-60°)	13663.8	57.0			
FH	(60°-80°)	6181.7	25.8			G3/7500
FVH	(80°-90°)	53.6	0.2			G1/100
BL	(0°-30°)	401.7	1.7	B1/500		
BM	(30°-60°)	557.4	2.3	B1/1000		
BH	(60°-80°)	230.2	1.0	B1/500		G1/500
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6
2.5°	3037.2	2968.9	2984.7	2940.5	2860.7	2696.7	2556.9	2424.5	2270.0	2264.8	2137.6
5°	4095.5	4037.7	4030.4	3941.0	3796.0	3517.5	3246.4	2937.4	2592.7	2567.4	2297.4
7.5°	5056.1	5009.8	4993.0	4886.9	4616.8	4345.6	3992.5	3538.5	2999.4	2953.1	2512.8
10°	5793.8	5771.8	5776.0	5700.3	5469.1	5216.9	4753.4	4174.3	3460.8	3389.3	2771.3
12.5°	6352.9	6358.2	6396.0	6349.8	6220.5	6033.5	5538.5	4852.2	3971.5	3873.8	3066.6
15°	6763.9	6790.1	6859.5	6917.3	6907.8	6746.0	6292.0	5540.6	4513.8	4405.5	3395.6
17.5°	7029.7	7059.2	7160.1	7288.3	7406.0	7368.2	7019.2	6204.8	5062.4	4937.3	3747.7
20°	7263.1	7297.7	7406.0	7575.2	7794.8	7842.1	7613.0	6849.0	5609.9	5457.5	4111.3
22.5°	7768.6	7767.5	7833.7	7932.5	8141.6	8263.6	8118.5	7447.0	6151.2	5992.5	4482.3
25°	8682.9	8648.2	8625.1	8547.3	8593.5	8669.2	8588.3	8006.1	6695.5	6534.8	4858.5
27.5°	9769.6	9790.6	9603.5	9394.4	9232.5	9154.8	9022.3	8524.2	7218.9	7042.4	5226.3
30°	10916.1	10922.4	10701.7	10434.8	10078.5	9783.2	9554.1	9019.2	7757.0	7564.7	5583.7
32.5°	11950.3	11909.3	11690.7	11327.0	10877.2	10545.1	10069.1	9572.0	8326.6	8140.6	5980.9
35°	12770.0	12721.6	12455.8	12124.7	11658.1	11323.9	10751.1	10123.7	8925.6	8743.8	6379.2
37.5°	13369.0	13312.3	13039.0	12698.5	12296.0	12101.6	11542.5	10723.8	9579.3	9383.9	6798.5
40°	13577.1	13527.7	13356.4	13107.3	12783.7	12739.5	12382.2	11414.3	10290.8	10082.7	7273.6
42.5°	13453.1	13404.8	13343.8	13259.7	13125.2	13167.2	13174.6	12201.4	11081.1	10876.2	7798.0
45°	12961.3	12918.2	12981.2	13104.2	13271.3	13479.4	13897.6	13047.4	11963.9	11745.3	8404.4
47.5°	12237.2	12205.6	12380.1	12687.0	13175.7	13749.5	14558.7	13936.5	12955.0	12752.1	9161.1
50°	11207.2	11202.0	11550.9	12111.0	12862.5	13879.8	15241.8	14947.5	14331.7	14118.3	10213.0
52.5°	9603.5	9614.0	10300.3	11196.7	12312.8	13791.5	15681.1	16246.5	15933.3	15711.6	11124.2
55°	8076.5	8139.5	8626.1	9918.8	11470.0	13463.6	15832.4	16852.9	16817.2	16607.0	11630.8
57.5°	6581.0	6695.5	7164.3	8371.8	10239.3	12708.0	15749.4	17115.6	17475.1	17314.3	12299.2
60°	4960.4	5013.0	5553.2	6681.9	8659.8	11329.1	15147.2	17258.6	18374.7	18263.3	13269.2
62.5°	3156.0	3287.3	3766.6	4855.3	6742.8	9414.3	14132.0	17256.5	19500.2	19561.2	14520.9
65°	1662.6	1816.0	2070.4	3008.8	4633.6	7275.7	12605.0	17094.6	20881.2	20966.3	15499.3
67.5°	896.5	940.6	1075.1	1561.7	2687.3	4928.9	10361.2	16295.9	21680.9	21793.4	15635.9
70°	655.8	680.0	730.4	863.9	1352.6	2862.8	7560.5	14485.1	20649.9	20607.9	13892.4
72.5°	503.4	541.2	579.1	632.7	777.7	1528.1	4707.2	11342.8	16476.7	16199.2	10384.4
75°	397.3	403.6	457.2	505.5	583.3	870.2	2090.3	6606.2	10056.5	9399.6	5385.0
77.5°	317.4	321.6	353.1	395.2	468.7	571.7	647.4	2599.0	3210.6	2864.9	1168.6
80°	188.1	198.6	262.7	304.8	388.8	360.5	236.5	564.4	501.3	454.0	196.5
82.5°	105.1	113.5	148.2	240.7	271.1	172.4	117.7	152.4	117.7	114.6	55.7
85°	0.0	5.3	95.6	149.2	110.3	37.8	49.4	50.4	34.7	32.6	22.1
87.5°	0.0	0.0	29.4	28.4	4.2	6.3	11.6	16.8	13.7	13.7	11.6
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°	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6
2.5°	2074.6	2017.8	1910.6	1805.5	1717.2	1644.7	1579.6	1553.3	1532.3	1529.1	1512.3
5°	2167.0	2052.5	1847.6	1679.4	1567.0	1487.1	1418.8	1376.7	1344.2	1331.5	1320.0
7.5°	2306.8	2133.4	1839.1	1645.8	1511.3	1376.7	1250.6	1114.0	1028.9	996.3	977.4
10°	2477.1	2240.6	1870.7	1636.3	1400.9	1117.2	908.0	734.6	664.2	641.1	634.8
12.5°	2675.7	2374.1	1925.3	1577.5	1165.5	793.5	626.4	567.5	551.7	544.4	544.4
15°	2903.8	2520.2	1964.2	1407.2	861.8	600.1	542.3	515.0	498.1	488.7	489.7
17.5°	3137.1	2663.1	1945.3	1160.2	635.8	533.9	490.8	461.4	438.2	428.8	426.7
20°	3372.5	2795.5	1840.2	863.9	538.1	484.5	436.1	403.6	380.4	371.0	368.9
22.5°	3616.3	2908.0	1655.2	633.7	483.4	429.8	382.5	350.0	327.9	319.5	315.3
25°	3853.8	2999.4	1396.7	512.9	431.9	378.3	333.1	302.7	282.7	274.3	273.2
27.5°	4075.6	3057.2	1097.2	453.0	386.7	332.1	291.1	263.8	247.0	240.7	239.6
30°	4275.2	3062.4	811.3	408.8	346.8	292.2	254.3	230.2	215.4	209.1	207.0
32.5°	4477.0	3018.3	590.6	368.9	310.0	257.5	220.7	201.8	191.3	186.0	186.0
35°	4667.2	2916.4	460.3	334.2	274.3	223.9	194.4	180.8	174.5	169.2	169.2
37.5°	4853.2	2770.3	391.0	303.7	240.7	195.5	171.3	162.9	157.6	152.4	152.4
40°	5042.4	2586.4	355.2	275.3	213.3	173.4	152.4	145.0	139.8	135.6	134.5
42.5°	5274.7	2374.1	332.1	249.1	189.2	153.4	134.5	126.1	121.9	117.7	115.6
45°	5543.7	2191.2	313.2	222.8	169.2	136.6	116.7	108.2	101.9	96.7	95.6
47.5°	5931.5	2058.8	288.0	194.4	150.3	118.8	100.9	91.4	82.0	76.7	75.7
50°	6426.5	1949.5	255.4	169.2	131.4	100.9	84.1	72.5	64.1	58.9	58.9
52.5°	6672.4	1806.6	226.0	147.1	110.3	85.1	68.3	54.6	50.4	45.2	45.2
55°	6771.2	1697.3	196.5	125.1	91.4	70.4	53.6	42.0	38.9	35.7	34.7
57.5°	7048.7	1665.7	171.3	106.1	75.7	55.7	41.0	31.5	29.4	25.2	25.2
60°	7495.3	1681.5	148.2	90.4	61.0	43.1	30.5	24.2	22.1	17.9	17.9
62.5°	7977.7	1661.5	125.1	77.8	47.3	31.5	21.0	17.9	17.9	10.5	9.5
65°	8070.2	1479.7	107.2	64.1	36.8	23.1	13.7	11.6	15.8	2.1	0.0
67.5°	7490.1	1147.6	92.5	49.4	27.3	17.9	10.5	5.3	13.7	0.0	0.0
70°	5989.3	729.4	74.6	35.7	21.0	14.7	8.4	2.1	10.5	0.0	0.0
72.5°	4235.3	423.5	58.9	25.2	17.9	11.6	6.3	0.0	6.3	0.0	0.0
75°	2141.8	226.0	36.8	18.9	13.7	8.4	4.2	0.0	1.1	0.0	0.0
77.5°	463.5	105.1	23.1	13.7	9.5	5.3	2.1	0.0	0.0	0.0	0.0
80°	100.9	46.2	14.7	8.4	5.3	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	36.8	24.2	7.4	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.0	12.6	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.5	4.2	1.1	1.1	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)