

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: P321378

Luminaire Tested: **GAN-SA4D-760-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321378
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-SA4D-760-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1200mA 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: 25265 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

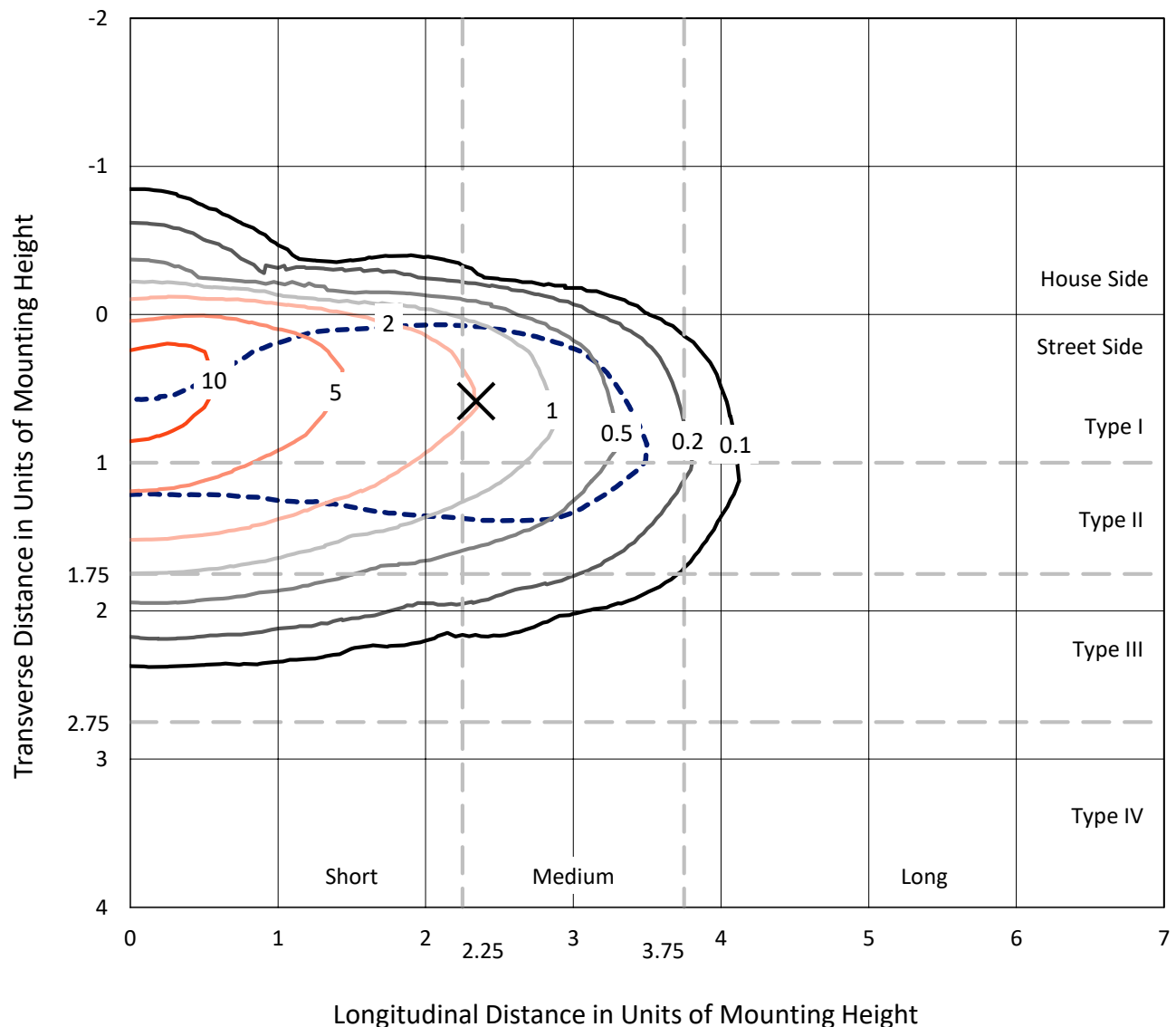
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

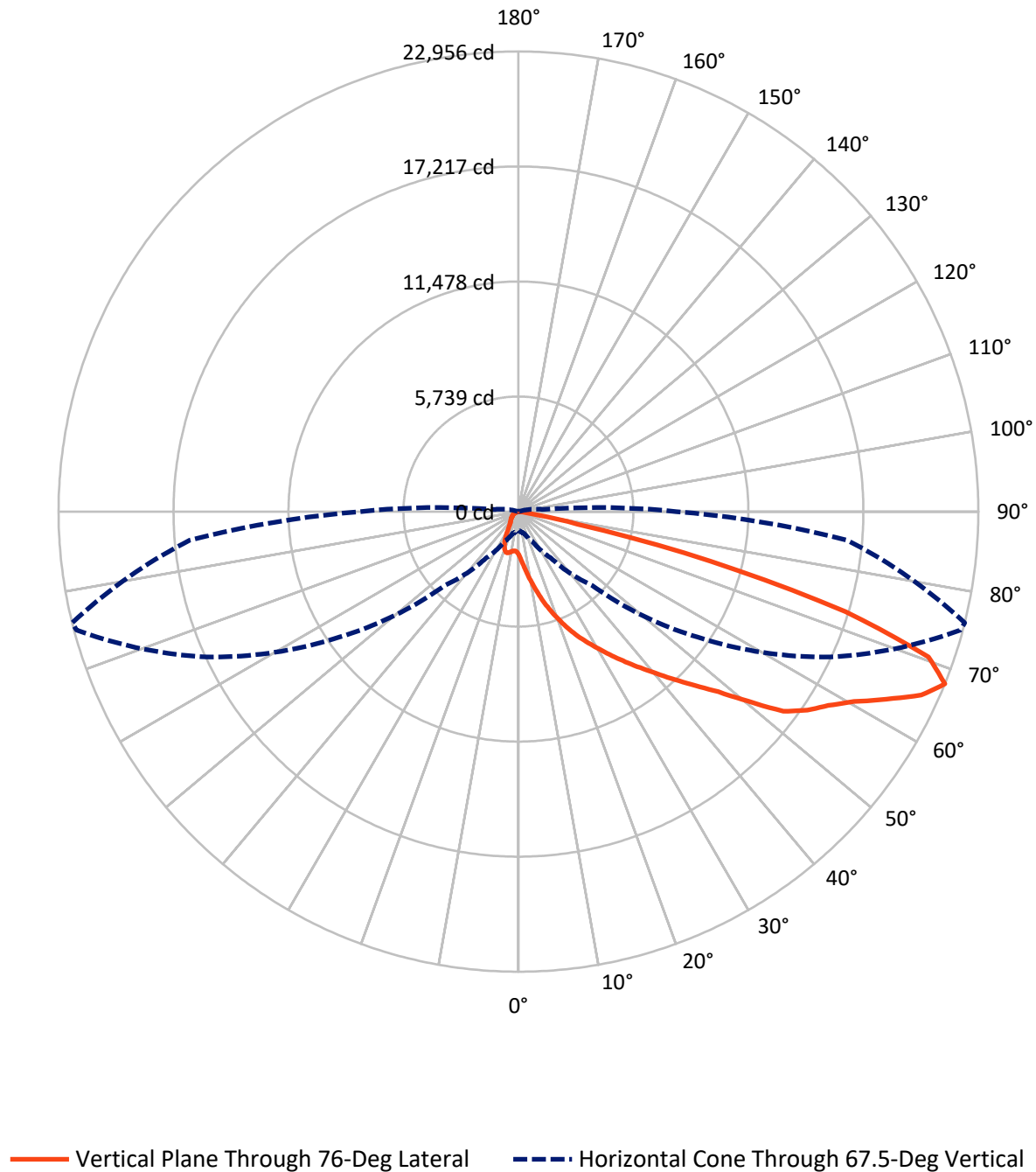
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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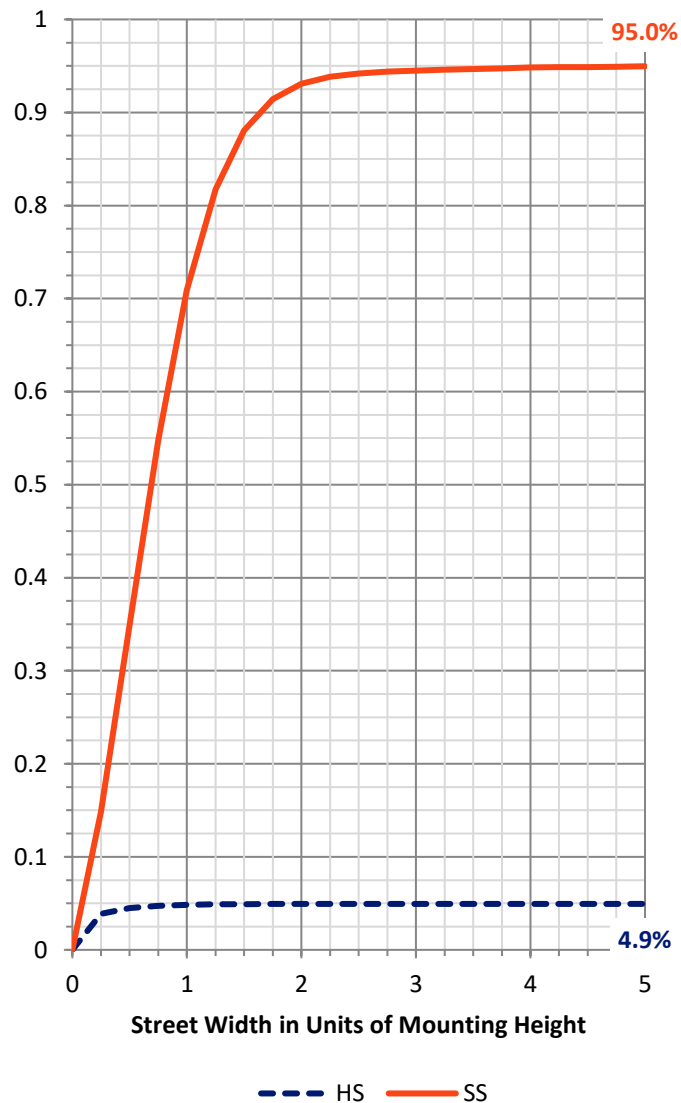
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1254.6	0.0	1254.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	24010.4	0.0	24010.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	25265.0	0.0	25265.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.5	1.1
10°-20°	1056.5	4.2
20°-30°	2149.5	8.5
30°-40°	3730.9	14.8
40°-50°	5271.3	20.9
50°-60°	5977.9	23.7
60°-70°	4958.1	19.6
70°-80°	1796.0	7.1
80°-90°	58.2	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°	25265.0	100.0
0°-180°	25265.0	100.0

Coefficient of Utilization



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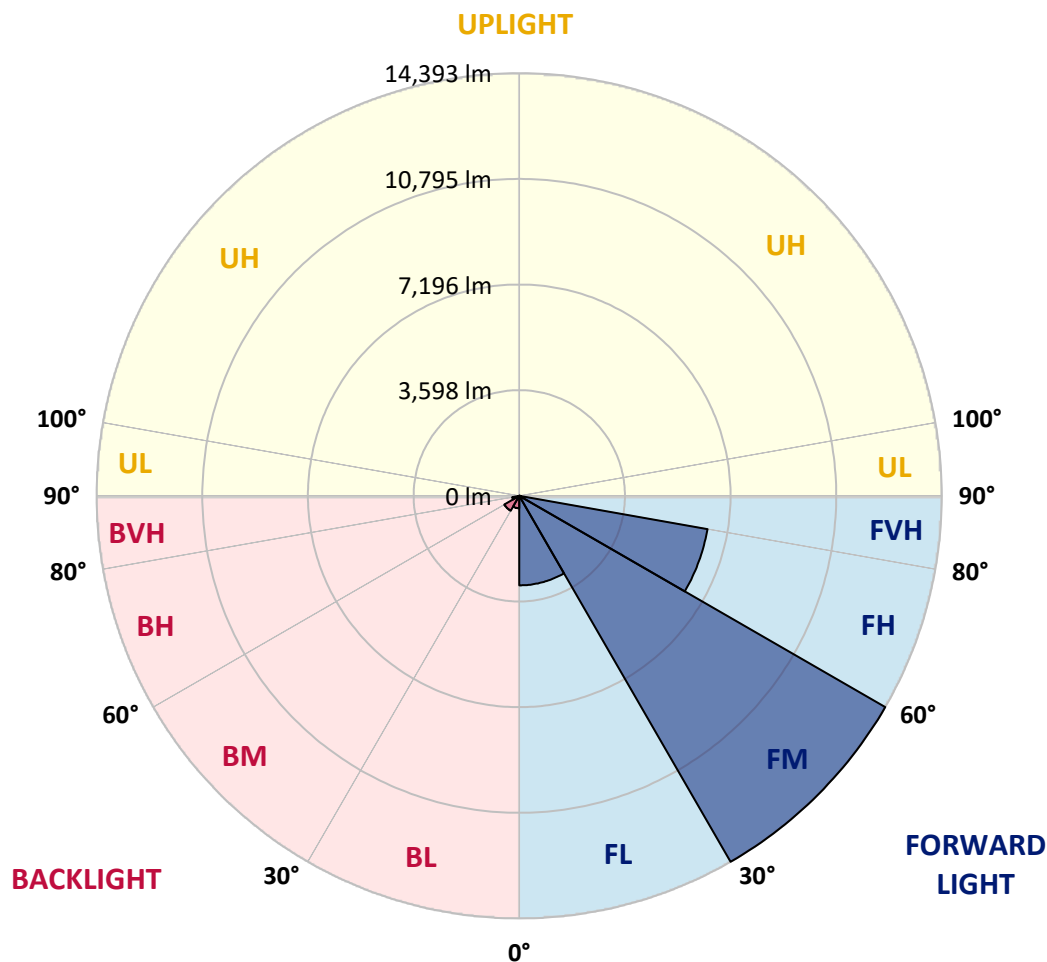
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3049.4	12.1			
FM	(30°-60°)	14393.0	57.0			
FH	(60°-80°)	6511.6	25.8			G3/7500
FVH	(80°-90°)	56.4	0.2			G1/100
BL	(0°-30°)	423.1	1.7	B1/500		
BM	(30°-60°)	587.2	2.3	B1/1000		
BH	(60°-80°)	242.5	1.0	B1/500		G1/500
BVH	(80°-90°)	1.8	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°	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2
2.5°	3199.3	3127.4	3144.0	3097.5	3013.3	2840.6	2693.4	2553.9	2391.2	2385.6	2251.7
5°	4314.1	4253.2	4245.4	4151.4	3998.6	3705.2	3419.6	3094.1	2731.0	2704.5	2420.0
7.5°	5325.9	5277.2	5259.5	5147.7	4863.2	4577.6	4205.6	3727.4	3159.5	3110.7	2646.9
10°	6103.0	6079.8	6084.2	6004.5	5761.0	5495.3	5007.1	4397.1	3645.4	3570.2	2919.2
12.5°	6692.0	6697.5	6737.4	6688.7	6552.5	6355.4	5834.0	5111.1	4183.5	4080.5	3230.3
15°	7124.8	7152.5	7225.6	7286.4	7276.5	7106.0	6627.8	5836.2	4754.7	4640.7	3576.8
17.5°	7404.9	7435.9	7542.2	7677.2	7801.2	7761.4	7393.8	6535.9	5332.5	5200.8	3947.7
20°	7650.7	7687.2	7801.2	7979.4	8210.8	8260.6	8019.3	7214.5	5909.3	5748.8	4330.7
22.5°	8183.1	8182.0	8251.8	8355.8	8576.1	8704.6	8551.8	7844.4	6479.4	6312.3	4721.5
25°	9146.3	9109.7	9085.4	9003.4	9052.2	9131.9	9046.6	8433.3	7052.9	6883.5	5117.8
27.5°	10290.9	10313.1	10116.0	9895.7	9725.2	9643.3	9503.8	8979.1	7604.2	7418.2	5505.2
30°	11498.7	11505.3	11272.9	10991.7	10616.4	10305.3	10064.0	9500.5	8171.0	7968.4	5881.6
32.5°	12588.0	12544.8	12314.6	11931.5	11457.7	11107.9	10606.4	10082.8	8771.0	8575.0	6300.1
35°	13451.5	13400.6	13120.5	12771.8	12280.2	11928.2	11324.9	10664.0	9402.0	9210.5	6719.7
37.5°	14082.5	14022.7	13734.9	13376.2	12952.2	12747.4	12158.5	11296.1	10090.5	9884.6	7161.4
40°	14301.7	14249.6	14069.2	13806.8	13465.9	13419.4	13043.0	12023.4	10840.0	10620.8	7661.7
42.5°	14171.0	14120.1	14055.9	13967.4	13825.7	13869.9	13877.7	12852.6	11672.5	11456.6	8214.1
45°	13653.0	13607.6	13674.0	13803.5	13979.5	14198.7	14639.3	13743.7	12602.4	12372.1	8852.9
47.5°	12890.2	12857.0	13040.8	13364.0	13878.8	14483.2	15335.6	14680.3	13646.3	13432.7	9650.0
50°	11805.3	11799.8	12167.3	12757.4	13548.9	14620.5	16055.2	15745.2	15096.5	14871.8	10758.1
52.5°	10116.0	10127.1	10850.0	11794.3	12969.9	14527.5	16517.9	17113.5	16783.6	16550.0	11717.9
55°	8507.5	8573.9	9086.5	10448.1	12082.1	14182.1	16677.4	17752.3	17714.6	17493.2	12251.5
57.5°	6932.2	7052.9	7546.6	8818.6	10785.8	13386.2	16589.9	18029.0	18407.6	18238.3	12955.5
60°	5225.2	5280.5	5849.5	7038.5	9121.9	11933.7	15955.6	18179.6	19355.3	19237.9	13977.3
62.5°	3324.4	3462.8	3967.6	5114.5	7102.7	9916.7	14886.2	18177.4	20540.9	20605.1	15295.8
65°	1751.3	1912.9	2180.8	3169.4	4880.9	7663.9	13277.7	18006.9	21995.5	22085.2	16326.4
67.5°	944.3	990.8	1132.5	1645.0	2830.7	5192.0	10914.2	17165.6	22838.0	22956.4	16470.3
70°	690.8	716.2	769.4	910.0	1424.7	3015.5	7964.0	15258.1	21752.0	21707.7	14633.8
72.5°	530.3	570.1	610.0	666.4	819.2	1609.6	4958.4	11948.1	17356.0	17063.7	10938.5
75°	418.5	425.1	481.6	532.5	614.4	916.6	2201.9	6958.8	10593.1	9901.2	5672.4
77.5°	334.3	338.8	372.0	416.2	493.7	602.2	681.9	2737.7	3382.0	3017.8	1231.0
80°	198.2	209.2	276.8	321.0	409.6	379.7	249.1	594.5	528.1	478.2	207.0
82.5°	110.7	119.6	156.1	253.5	285.6	181.6	124.0	160.5	124.0	120.7	58.7
85°	0.0	5.5	100.7	157.2	116.2	39.9	52.0	53.1	36.5	34.3	23.2
87.5°	0.0	0.0	31.0	29.9	4.4	6.6	12.2	17.7	14.4	14.4	12.2
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°	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2
2.5°	2185.3	2125.5	2012.6	1901.9	1808.9	1732.5	1663.9	1636.2	1614.0	1610.7	1593.0
5°	2282.7	2162.0	1946.2	1769.0	1650.6	1566.4	1494.5	1450.2	1415.9	1402.6	1390.4
7.5°	2429.9	2247.3	1937.3	1733.6	1591.9	1450.2	1317.4	1173.4	1083.8	1049.5	1029.5
10°	2609.3	2360.2	1970.5	1723.6	1475.7	1176.8	956.5	773.8	699.6	675.3	668.6
12.5°	2818.5	2500.8	2028.1	1661.6	1227.7	835.8	659.8	597.8	581.2	573.4	573.4
15°	3058.7	2654.7	2069.0	1482.3	907.8	632.1	571.2	542.4	524.7	514.8	515.9
17.5°	3304.5	2805.2	2049.1	1222.2	669.8	562.4	517.0	486.0	461.6	451.7	449.5
20°	3552.4	2944.7	1938.4	910.0	566.8	510.3	459.4	425.1	400.7	390.8	388.6
22.5°	3809.3	3063.1	1743.6	667.5	509.2	452.8	403.0	368.6	345.4	336.5	332.1
25°	4059.5	3159.5	1471.2	540.2	455.0	398.5	350.9	318.8	297.8	288.9	287.8
27.5°	4293.0	3220.3	1155.7	477.1	407.4	349.8	306.6	277.9	260.2	253.5	252.4
30°	4503.4	3225.9	854.6	430.6	365.3	307.8	267.9	242.4	226.9	220.3	218.1
32.5°	4715.9	3179.4	622.1	388.6	326.6	271.2	232.5	212.5	201.5	195.9	195.9
35°	4916.3	3072.0	484.9	352.0	288.9	235.8	204.8	190.4	183.8	178.2	178.2
37.5°	5112.2	2918.1	411.8	319.9	253.5	205.9	180.4	171.6	166.1	160.5	160.5
40°	5311.5	2724.4	374.2	290.0	224.7	182.7	160.5	152.8	147.2	142.8	141.7
42.5°	5556.2	2500.8	349.8	262.4	199.3	161.6	141.7	132.8	128.4	124.0	121.8
45°	5839.6	2308.2	329.9	234.7	178.2	143.9	122.9	114.0	107.4	101.8	100.7
47.5°	6248.1	2168.7	303.3	204.8	158.3	125.1	106.3	96.3	86.3	80.8	79.7
50°	6769.5	2053.5	269.0	178.2	138.4	106.3	88.6	76.4	67.5	62.0	62.0
52.5°	7028.5	1903.0	238.0	155.0	116.2	89.7	72.0	57.6	53.1	47.6	47.6
55°	7132.6	1787.8	207.0	131.7	96.3	74.2	56.5	44.3	41.0	37.6	36.5
57.5°	7424.8	1754.6	180.4	111.8	79.7	58.7	43.2	33.2	31.0	26.6	26.6
60°	7895.3	1771.2	156.1	95.2	64.2	45.4	32.1	25.5	23.2	18.8	18.8
62.5°	8403.4	1750.2	131.7	81.9	49.8	33.2	22.1	18.8	18.8	11.1	10.0
65°	8500.9	1558.7	112.9	67.5	38.7	24.4	14.4	12.2	16.6	2.2	0.0
67.5°	7889.8	1208.9	97.4	52.0	28.8	18.8	11.1	5.5	14.4	0.0	0.0
70°	6308.9	768.3	78.6	37.6	22.1	15.5	8.9	2.2	11.1	0.0	0.0
72.5°	4461.3	446.1	62.0	26.6	18.8	12.2	6.6	0.0	6.6	0.0	0.0
75°	2256.1	238.0	38.7	19.9	14.4	8.9	4.4	0.0	1.1	0.0	0.0
77.5°	488.2	110.7	24.4	14.4	10.0	5.5	2.2	0.0	0.0	0.0	0.0
80°	106.3	48.7	15.5	8.9	5.5	3.3	0.0	0.0	0.0	0.0	0.0
82.5°	38.7	25.5	7.7	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.0	13.3	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.1	4.4	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)