

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: P322017

Luminaire Tested: **GAN-SA3D-760-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-760-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16851 lumens
Efficiency: N/A
Efficacy: 88.2 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): 191
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

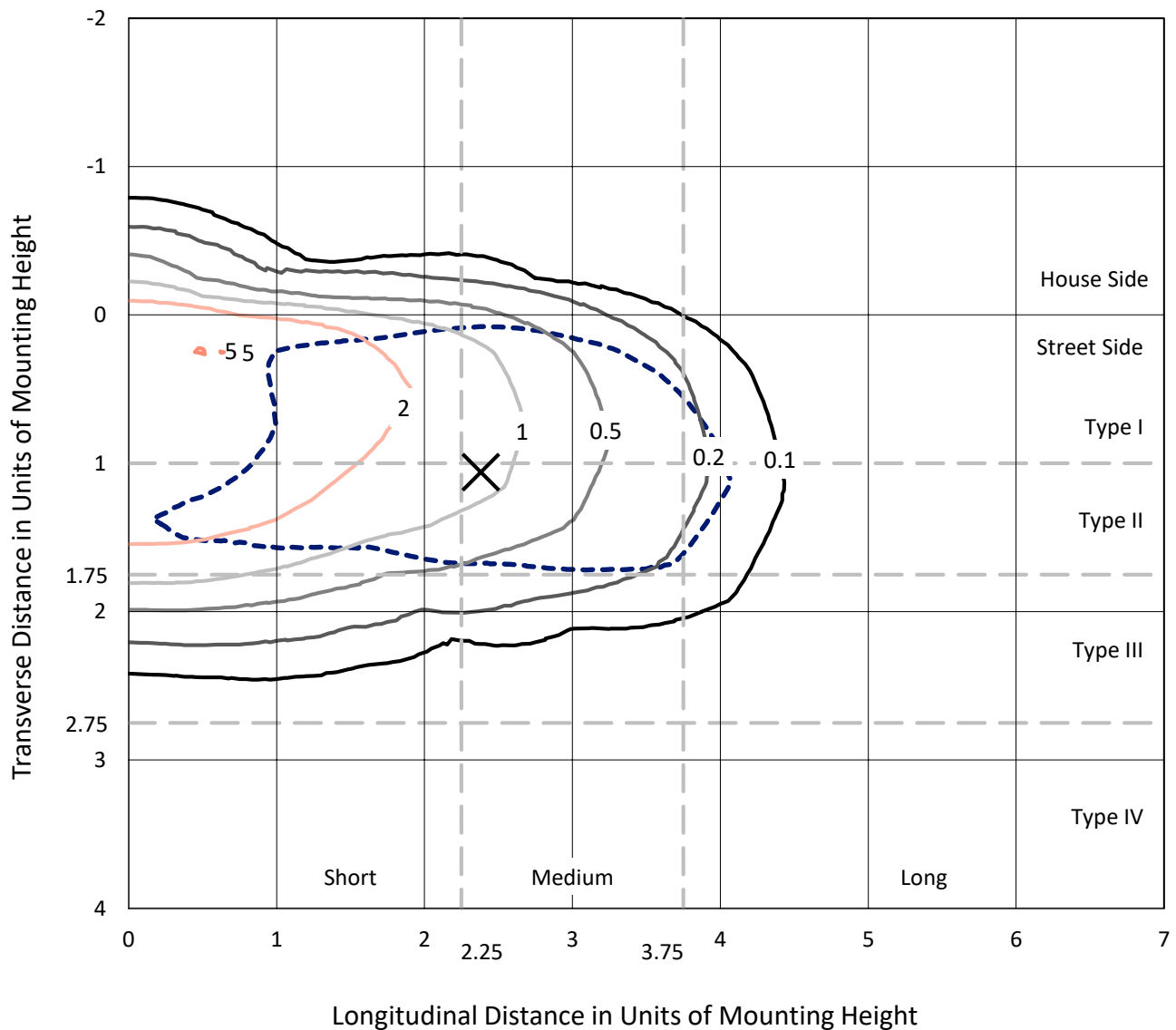


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Iso-Footcandle Lines of Horizontal Illumination

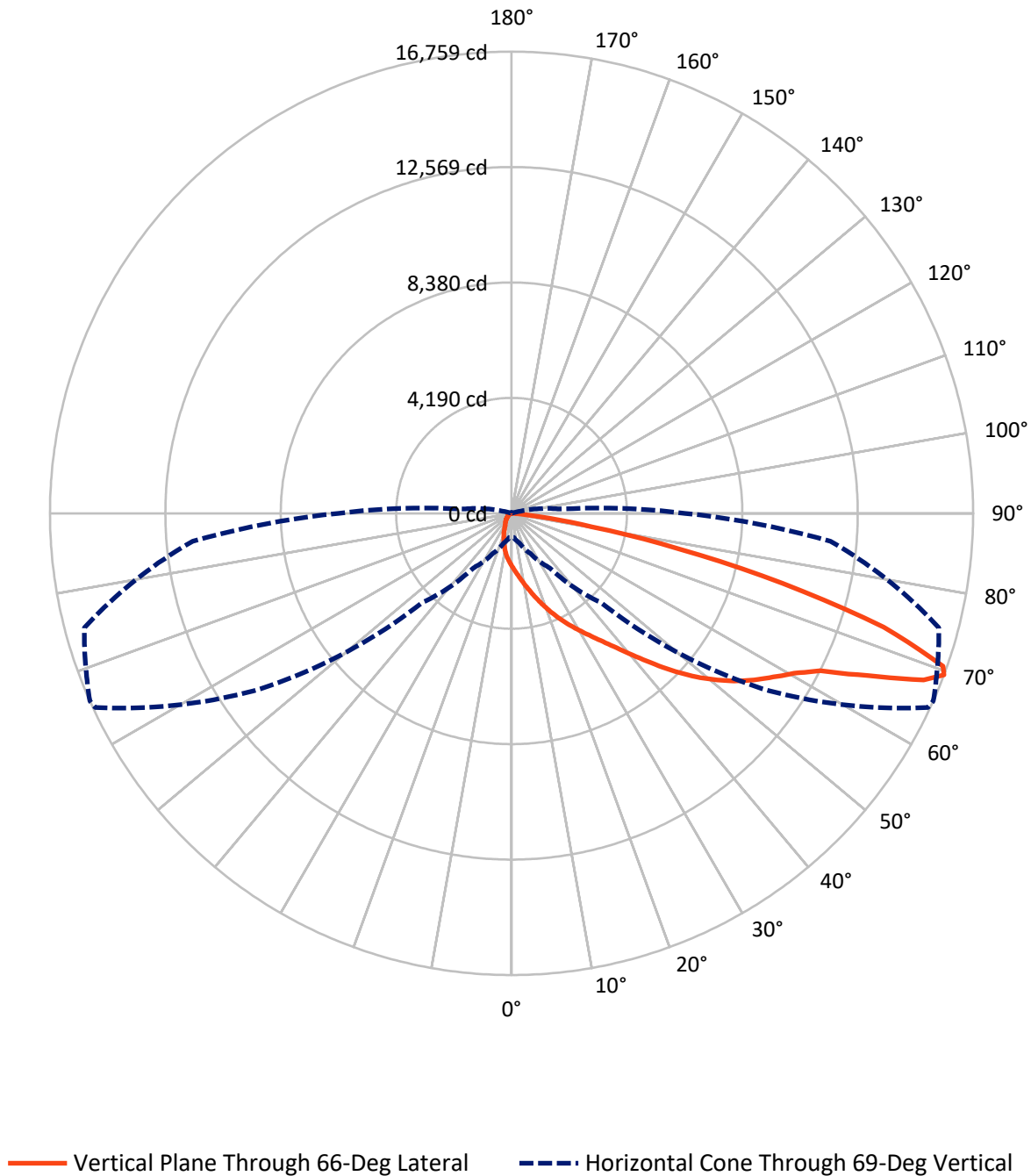
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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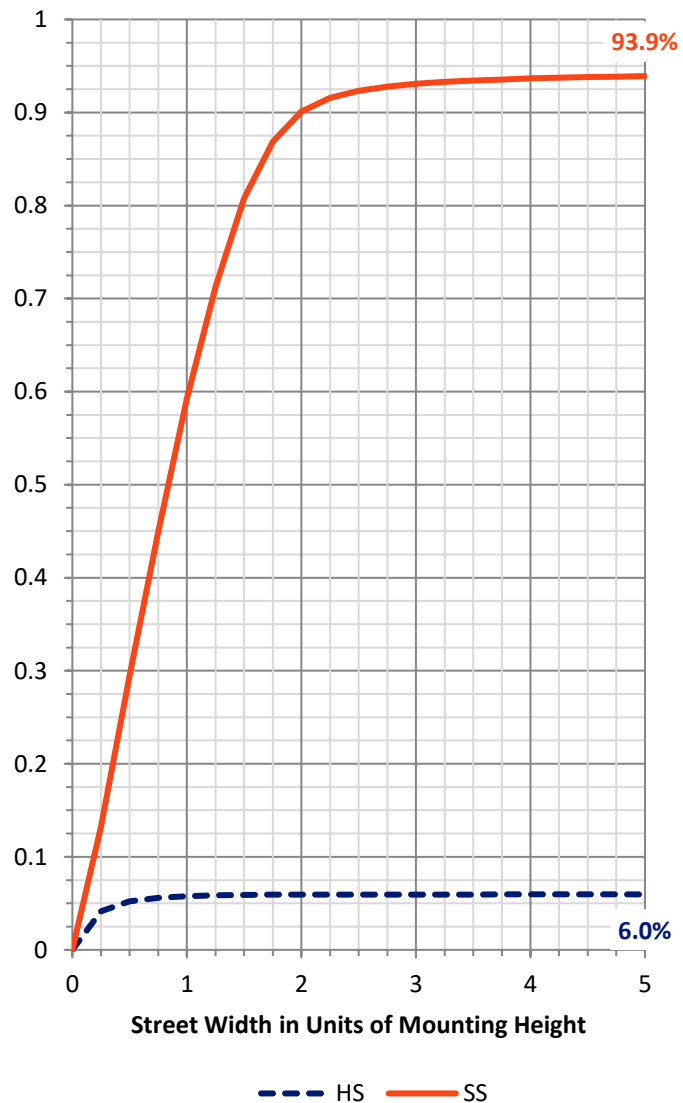
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1010.8	0.0	1010.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	15840.2	0.0	15840.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	16851.0	0.0	16851.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	1.1
10°-20°	551.7	3.3
20°-30°	960.7	5.7
30°-40°	1685.6	10.0
40°-50°	2821.4	16.7
50°-60°	4147.1	24.6
60°-70°	4258.1	25.3
70°-80°	2102.1	12.5
80°-90°	139.0	0.8
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°	16851.0	100.0
0°-180°	16851.0	100.0

Coefficient of Utilization



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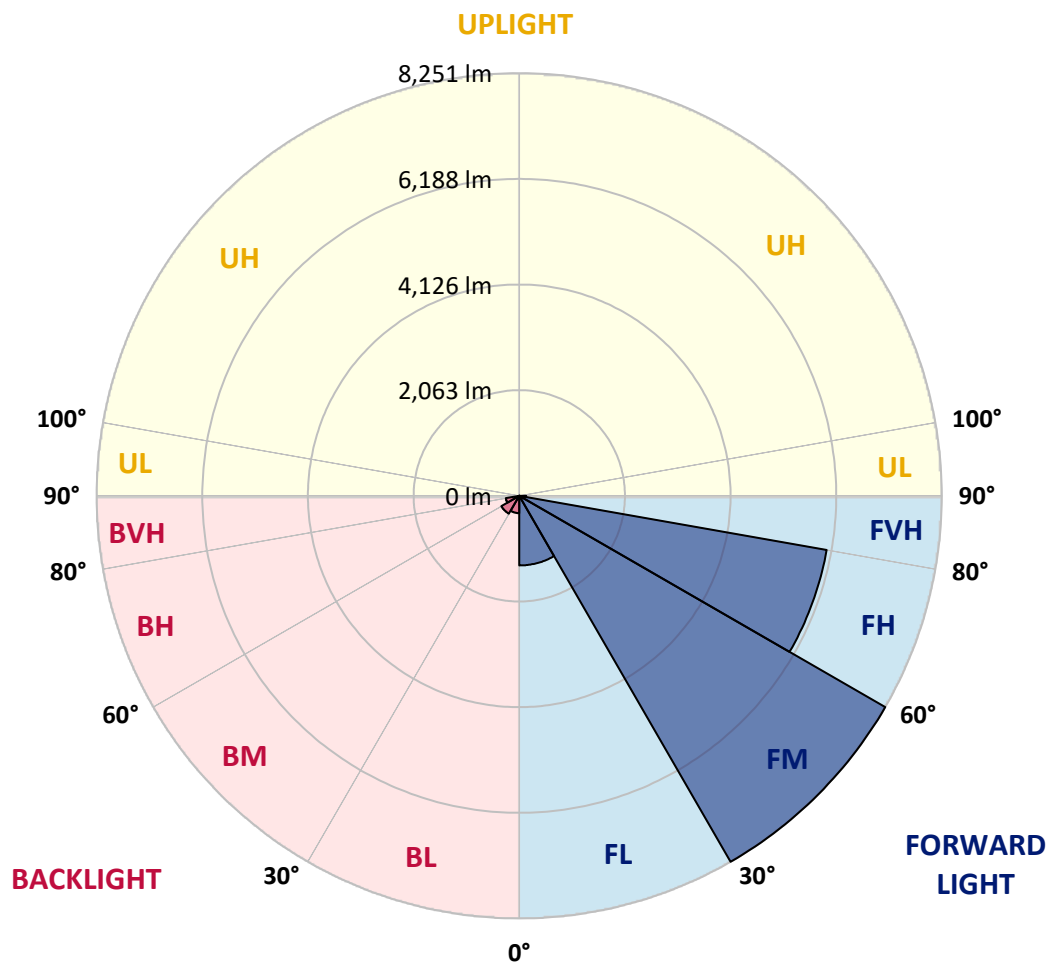
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1359.7	8.1			
FM	(30°-60°)	8251.1	49.0			
FH	(60°-80°)	6093.8	36.2			G3/7500
FVH	(80°-90°)	135.6	0.8			G2/225
BL	(0°-30°)	338.1	2.0	B1/500		
BM	(30°-60°)	403.0	2.4	B1/1000		
BH	(60°-80°)	266.4	1.6	B1/500		G1/500
BVH	(80°-90°)	3.4	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°	66°	75°	85°
0°	1917.7	1917.7	1917.7	1917.7	1917.7	1917.7	1917.7	1917.7	1917.7	1917.7	1917.7
2.5°	2257.1	2247.5	2243.5	2225.8	2195.4	2172.2	2127.4	2075.4	2065.8	2015.3	1953.7
5°	2550.0	2542.0	2536.4	2511.6	2480.4	2421.9	2340.3	2243.5	2225.0	2129.0	2005.7
7.5°	2754.1	2768.5	2768.5	2752.5	2713.3	2669.2	2569.2	2437.1	2413.9	2266.7	2075.4
10°	2873.3	2891.0	2904.6	2918.2	2912.6	2895.0	2800.5	2651.6	2623.6	2428.3	2156.2
12.5°	2884.6	2902.2	2940.6	2997.4	3052.6	3092.6	3033.4	2889.4	2857.3	2615.6	2252.3
15°	2822.1	2840.5	2899.8	3010.2	3143.9	3260.7	3279.9	3152.7	3119.9	2838.9	2372.3
17.5°	2713.3	2725.3	2810.1	2963.0	3172.7	3387.2	3503.2	3435.2	3404.8	3094.2	2506.0
20°	2632.4	2641.2	2715.7	2879.7	3155.1	3466.4	3714.5	3735.3	3703.3	3368.0	2650.8
22.5°	2770.9	2786.9	2789.3	2866.9	3107.1	3505.6	3900.2	4030.7	4006.7	3658.5	2793.3
25°	3149.5	3167.9	3107.1	3059.0	3147.9	3523.2	4059.5	4333.2	4314.0	3971.5	2936.6
27.5°	3649.7	3668.9	3590.5	3447.2	3361.6	3589.7	4201.2	4640.6	4639.8	4302.8	3091.0
30°	4141.1	4160.3	4080.3	3937.0	3740.2	3777.8	4323.6	4962.3	4967.1	4644.6	3255.1
32.5°	4656.6	4680.6	4598.2	4414.1	4208.4	4102.7	4495.7	5285.7	5312.9	5040.8	3440.0
35°	5242.5	5245.7	5129.6	4936.7	4699.8	4537.3	4771.8	5648.2	5713.1	5531.4	3674.5
37.5°	5817.1	5840.3	5745.1	5440.9	5223.2	5039.2	5182.4	6101.3	6193.3	6130.9	3981.1
40°	6242.9	6291.7	6278.1	5950.0	5743.5	5612.2	5692.3	6639.9	6756.8	6828.8	4367.6
42.5°	6510.2	6547.1	6609.5	6411.8	6224.5	6246.1	6294.1	7267.4	7411.5	7624.4	4811.9
45°	6816.8	6834.4	6886.4	6799.2	6672.7	6890.4	6932.8	7974.1	8125.4	8480.0	5304.9
47.5°	7191.4	7233.0	7247.4	7167.4	7109.7	7460.3	7548.3	8616.8	8828.9	9396.4	5826.7
50°	7668.4	7679.6	7704.4	7652.4	7594.8	7950.1	8100.6	9291.6	9484.4	10316.0	6341.4
52.5°	8135.0	8175.0	8261.5	8228.7	8205.4	8367.1	8592.8	9899.8	10115.1	11082.8	6855.2
55°	8269.5	8303.9	8602.4	8806.5	8995.4	8881.0	9063.4	10444.9	10677.8	11767.9	7349.8
57.5°	7732.4	7802.1	8319.1	8850.5	9634.1	9679.7	9710.1	11004.4	11213.3	12293.0	7864.5
60°	6375.0	6388.6	7237.0	8148.6	9528.5	10376.9	10654.6	11605.4	11780.7	12782.0	8480.8
62.5°	4054.7	4193.2	5124.0	6411.0	8411.1	10276.0	11796.7	12514.7	12578.7	13368.7	9364.4
65°	1931.3	2020.9	2691.7	3961.1	6092.5	8985.0	12585.1	14159.4	14188.2	14531.6	10544.9
67.5°	1069.3	1112.5	1431.9	2132.2	3561.7	6354.2	12266.5	16107.5	16134.8	15719.4	11580.6
69°	836.4	873.2	1124.5	1607.2	2414.7	4566.9	11100.4	16678.2	16759.0	16059.5	11617.4
70°	709.9	745.9	968.5	1357.4	1941.7	3528.9	9880.6	16536.5	16622.2	16027.5	11342.9
72.5°	434.6	455.4	645.1	955.6	1301.4	1775.2	6093.3	13984.9	14129.8	14702.1	9748.6
75°	292.9	304.1	403.4	659.5	930.8	914.0	3165.5	9857.4	10171.2	11436.6	7200.2
77.5°	209.7	220.1	270.5	426.6	652.3	603.5	1433.5	6126.1	6193.3	6859.2	3926.6
80°	119.3	128.9	191.3	253.7	442.6	402.6	569.9	2926.2	2959.8	2941.4	1311.0
82.5°	62.4	70.4	104.8	167.3	284.1	263.3	236.9	979.7	984.5	818.8	287.3
85°	12.0	14.4	52.0	114.5	146.5	114.5	96.8	229.7	234.5	207.3	71.2
87.5°	0.0	0.8	20.8	25.6	28.8	29.6	31.2	44.8	48.0	64.8	19.2
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°	1917.7	1917.7	1917.7	1917.7	1917.7	1917.7	1917.7	1917.7	1917.7	1917.7	1917.7
2.5°	1926.5	1897.7	1842.5	1778.4	1728.8	1680.0	1641.6	1601.5	1587.1	1579.9	1579.1
5°	1945.7	1884.9	1768.0	1648.0	1549.5	1456.7	1390.3	1327.0	1297.4	1283.8	1278.2
7.5°	1977.7	1880.1	1692.0	1508.7	1367.0	1251.0	1158.9	1090.1	1055.7	1041.3	1035.7
10°	2015.3	1873.7	1603.2	1361.4	1180.6	1060.5	969.3	901.2	863.6	847.6	839.6
12.5°	2059.4	1862.5	1500.7	1212.6	1021.3	901.2	790.8	706.7	663.5	645.1	636.3
15°	2113.8	1851.3	1393.5	1072.5	881.2	734.7	613.9	557.1	548.3	545.1	545.9
17.5°	2167.4	1833.7	1276.6	934.0	733.9	573.9	512.2	509.0	510.6	510.6	510.6
20°	2215.4	1793.6	1149.3	815.6	593.9	484.2	471.4	465.8	461.8	458.6	454.6
22.5°	2253.1	1740.0	1026.9	697.9	485.0	443.4	423.4	405.8	391.4	381.8	377.0
25°	2278.7	1668.8	914.8	585.1	436.2	403.4	367.4	337.8	315.3	301.7	296.1
27.5°	2297.9	1591.9	814.8	489.8	402.6	357.0	309.7	274.5	251.3	239.3	234.5
30°	2311.5	1504.7	726.7	430.6	365.0	308.1	257.7	223.3	206.5	200.1	196.9
32.5°	2324.3	1407.9	643.5	402.6	329.8	263.3	216.1	189.7	179.3	171.3	168.9
35°	2356.3	1318.2	564.3	373.0	293.7	224.9	185.7	166.5	156.1	151.3	149.7
37.5°	2432.3	1251.8	488.2	342.6	257.7	194.5	162.5	148.9	139.3	134.5	132.9
40°	2554.8	1218.2	424.2	309.7	222.5	171.3	147.3	134.5	124.1	116.9	115.3
42.5°	2734.9	1223.0	379.4	276.9	194.5	152.9	132.9	117.7	106.4	100.0	98.4
45°	2953.4	1258.2	348.2	244.9	171.3	138.5	116.9	100.8	90.4	84.8	83.2
47.5°	3190.3	1315.0	322.6	216.1	152.9	124.9	100.8	84.0	75.2	70.4	69.6
50°	3440.0	1370.2	296.1	188.1	136.9	111.3	84.8	69.6	62.4	58.4	56.8
52.5°	3692.9	1434.3	272.1	162.5	123.3	95.2	70.4	56.8	51.2	48.0	46.4
55°	3965.1	1482.3	248.9	142.5	109.7	80.8	58.4	47.2	42.4	38.4	37.6
57.5°	4285.2	1556.7	224.9	123.3	93.6	67.2	48.0	37.6	33.6	29.6	28.8
60°	4717.4	1644.0	199.3	108.9	76.8	55.2	39.2	30.4	25.6	22.4	21.6
62.5°	5287.3	1740.8	167.3	95.2	62.4	44.8	31.2	24.0	18.4	14.4	14.4
65°	6010.0	1898.5	136.9	80.0	51.2	36.8	24.0	17.6	10.4	6.4	6.4
67.5°	6431.8	1925.7	110.5	65.6	41.6	31.2	20.0	12.0	3.2	0.8	0.0
69°	6296.5	1768.0	93.6	56.0	36.0	29.6	18.4	8.8	1.6	0.0	0.0
70°	6042.0	1616.8	82.4	49.6	32.8	28.0	17.6	6.4	1.6	0.0	0.0
72.5°	4992.7	1150.9	62.4	36.8	24.0	24.8	16.0	4.0	1.6	0.0	0.0
75°	3636.9	699.5	44.8	25.6	15.2	18.4	11.2	1.6	0.8	0.0	0.0
77.5°	2023.3	329.8	28.0	14.4	9.6	11.2	5.6	0.0	0.0	0.0	0.0
80°	657.1	89.6	12.8	8.0	5.6	6.4	2.4	0.0	0.0	0.0	0.0
82.5°	121.7	25.6	7.2	4.0	1.6	1.6	0.0	0.0	0.0	0.0	0.0
85°	26.4	10.4	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.8	3.2	0.8	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)