

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: P842086

Luminaire Tested: **ARCH4-270-722-U-T3**

Issue Date: 5/27/2024

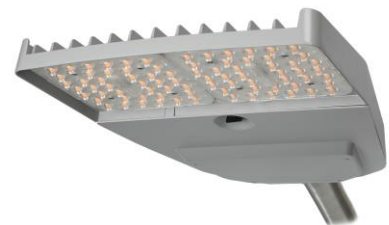
Test Information

Test Method: LM-79-08
Report Number: P842086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-270-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33704 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 269
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



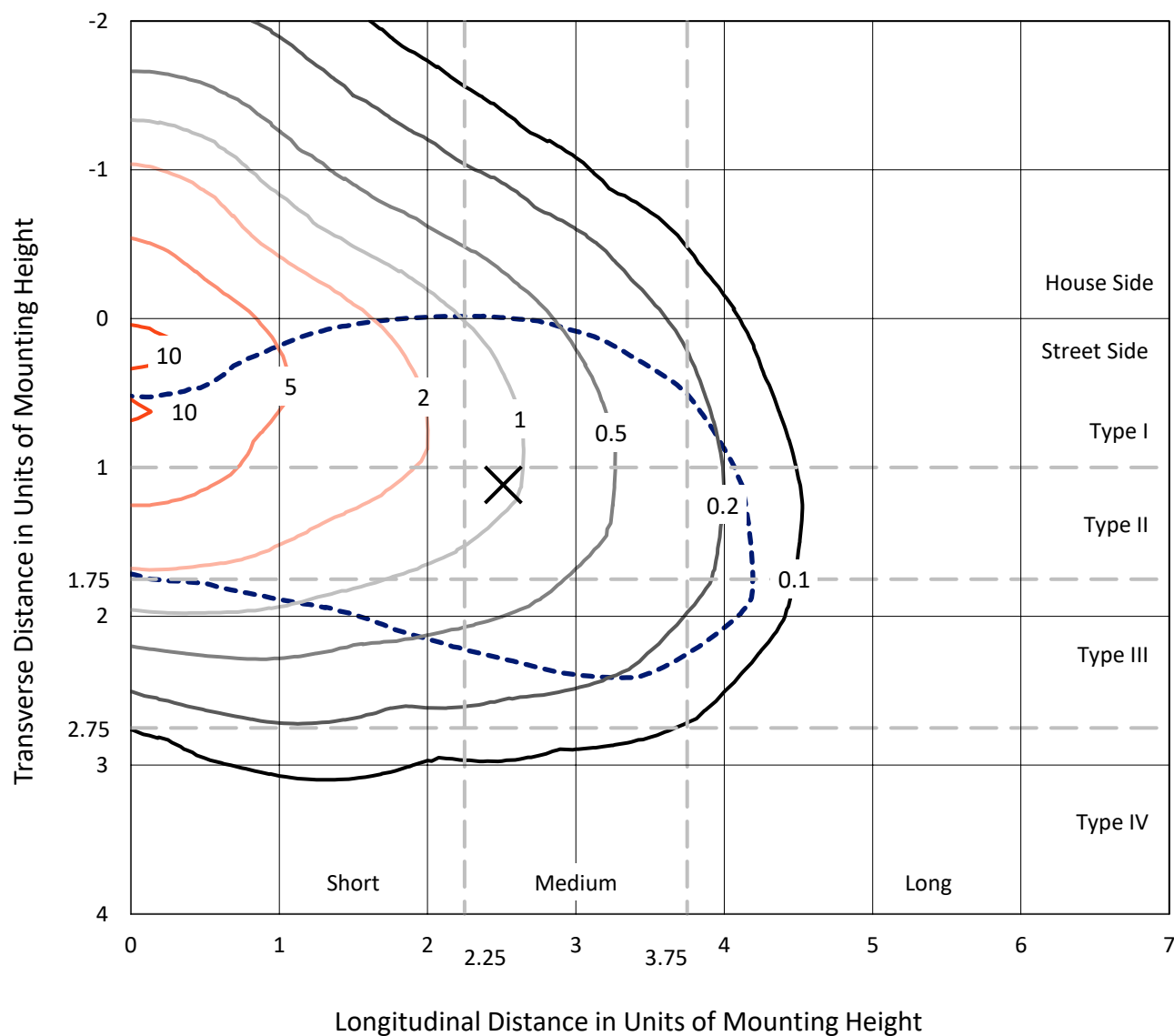
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

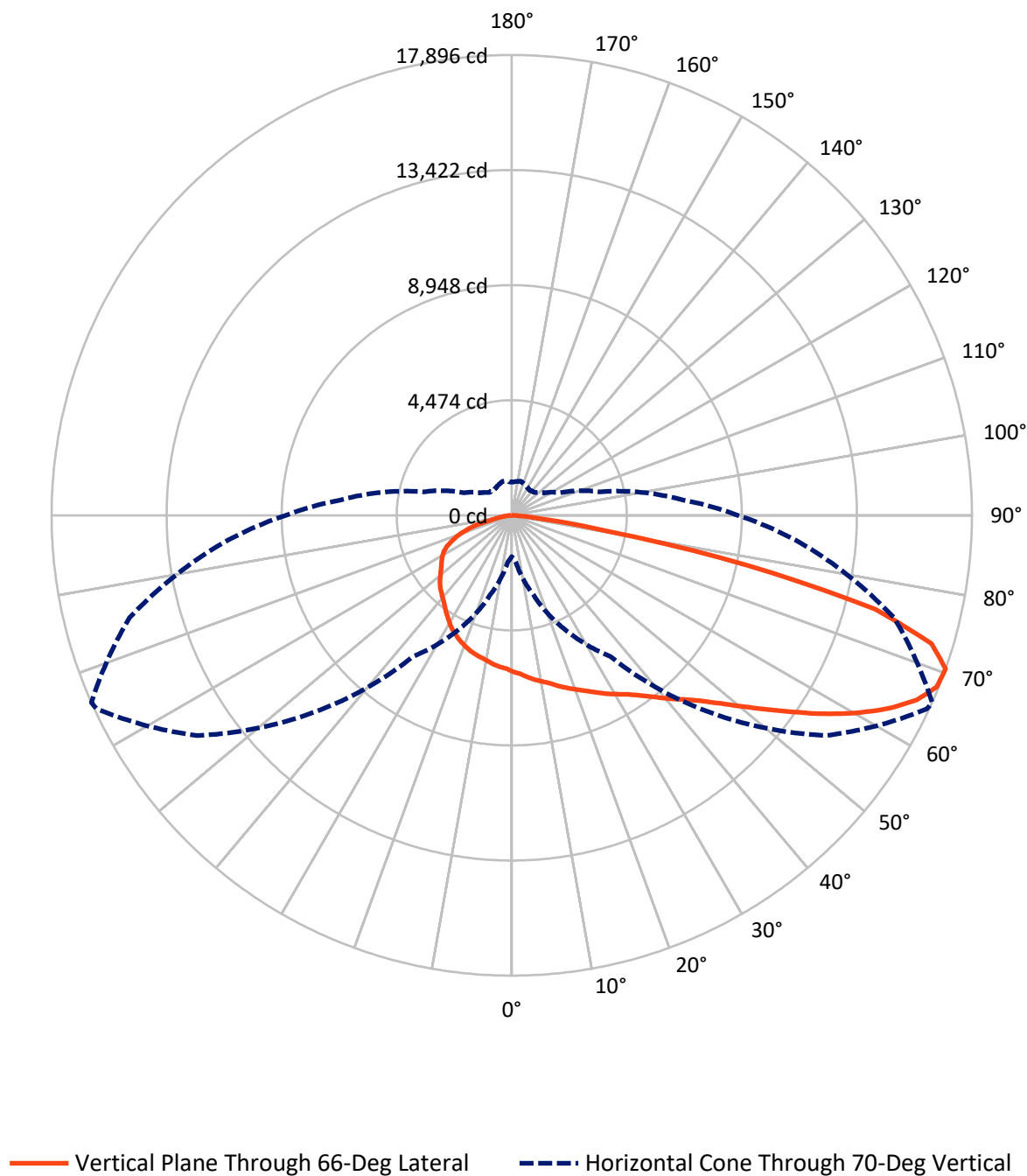
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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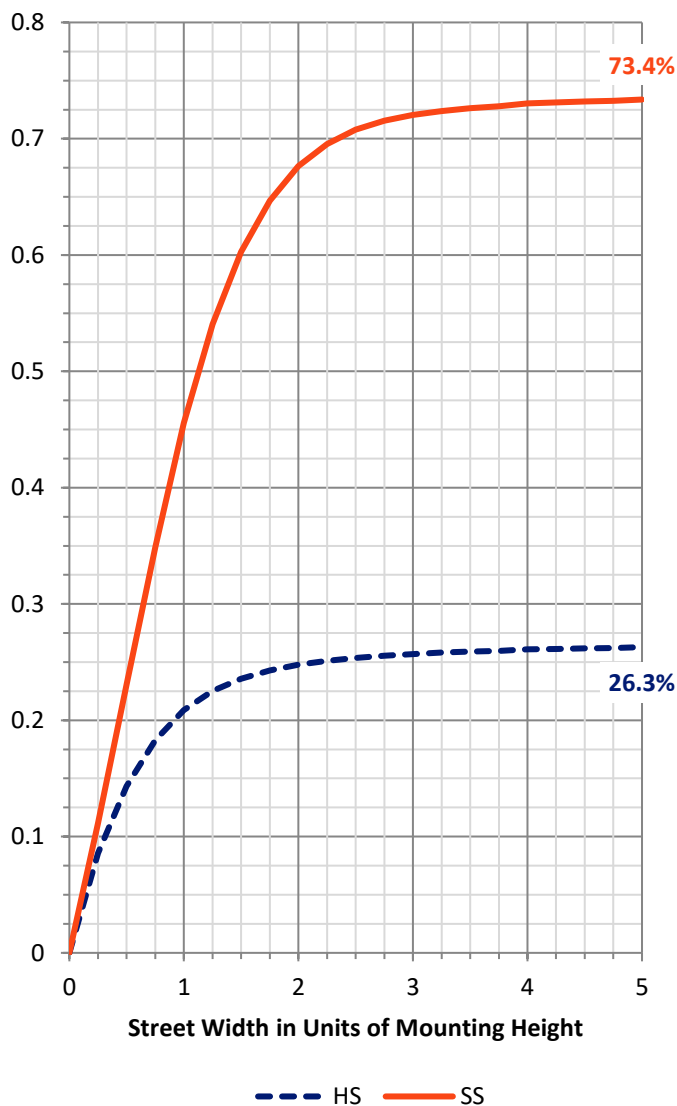
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8930.8	0.0	8930.8
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	24773.2	0.0	24773.2
	% Fixture	73.5	0.0	73.5
Total	Lumens	33704.0	0.0	33704.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.5	1.7
10°-20°	1753.3	5.2
20°-30°	2939.1	8.7
30°-40°	4400.7	13.1
40°-50°	5883.8	17.5
50°-60°	6869.5	20.4
60°-70°	6830.7	20.3
70°-80°	4043.9	12.0
80°-90°	398.6	1.2
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°	33704.0	100.0
0°-180°	33704.0	100.0

Coefficient of Utilization



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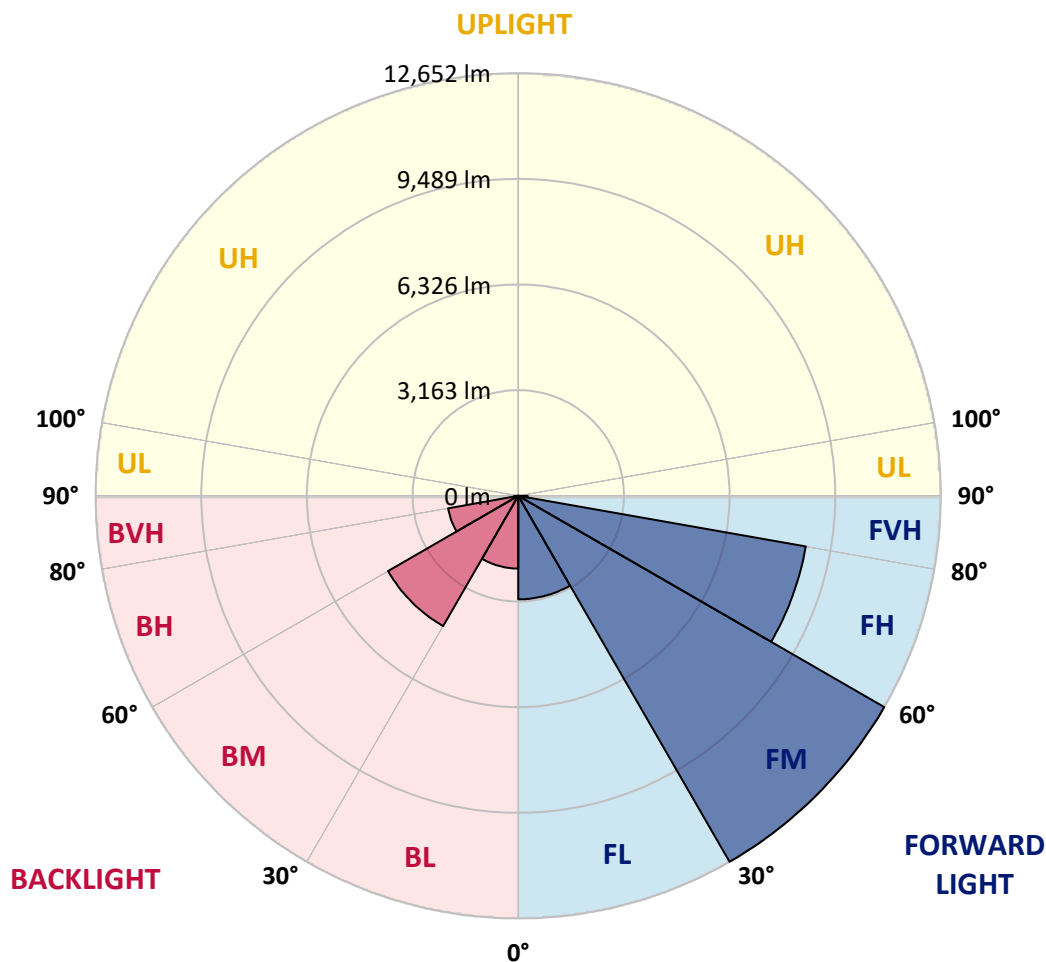
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3099.9	9.2			
FM	(30°-60°)	12652.0	37.5			
FH	(60°-80°)	8741.2	25.9			G4/12000
FVH	(80°-90°)	280.1	0.8			G3/500
BL	(0°-30°)	2176.9	6.5	B3/2500		
BM	(30°-60°)	4502.0	13.4	B3/5000		
BH	(60°-80°)	2133.3	6.3	B3/2500		G3/2500
BVH	(80°-90°)	118.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6082.8	6082.8	6082.8	6082.8	6082.8	6082.8	6082.8	6082.8	6082.8	6082.8	6082.8
2.5°	6306.4	6296.5	6291.5	6271.6	6226.9	6246.8	6202.1	6172.3	6167.3	6097.7	6058.0
5°	6564.9	6559.9	6549.9	6520.1	6450.6	6460.5	6386.0	6331.3	6316.4	6207.0	6122.6
7.5°	6783.5	6773.6	6768.6	6728.9	6654.3	6649.3	6559.9	6480.4	6455.5	6306.4	6177.2
10°	6952.5	6937.6	6947.5	6907.8	6828.2	6813.3	6699.0	6594.7	6569.8	6381.0	6202.1
12.5°	7096.6	7086.7	7101.6	7066.8	7002.2	6987.3	6873.0	6738.8	6709.0	6490.3	6256.7
15°	7255.6	7220.8	7250.7	7235.8	7191.0	7186.1	7081.7	6932.6	6892.9	6629.5	6341.2
17.5°	7340.1	7320.2	7355.0	7360.0	7340.1	7374.9	7275.5	7096.6	7061.8	6758.7	6415.8
20°	7399.8	7369.9	7409.7	7439.5	7454.4	7524.0	7444.5	7270.5	7230.8	6882.9	6485.3
22.5°	7603.5	7538.9	7543.9	7563.7	7573.7	7673.1	7623.4	7454.4	7414.7	7037.0	6569.8
25°	8115.4	7986.2	7901.7	7842.0	7772.5	7857.0	7827.1	7663.1	7628.4	7220.8	6674.2
27.5°	8910.5	8746.5	8577.5	8403.6	8130.3	8095.5	8045.8	7896.7	7857.0	7404.7	6778.6
30°	9815.0	9651.0	9452.2	9173.9	8662.0	8393.7	8279.4	8115.4	8070.6	7568.7	6877.9
32.5°	10714.5	10570.4	10371.6	10033.6	9303.1	8756.5	8512.9	8344.0	8299.3	7747.6	6997.2
35°	11415.2	11325.7	11196.5	10774.1	9939.2	9183.8	8850.9	8647.1	8597.4	8030.9	7215.9
37.5°	11981.7	11917.1	11807.8	11365.5	10401.4	9611.2	9238.5	9004.9	8950.3	8339.0	7449.4
40°	12816.6	12647.7	12558.2	11917.1	10803.9	9998.9	9675.8	9432.3	9372.7	8667.0	7638.3
42.5°	13527.3	13403.0	13293.7	12409.1	11186.6	10331.8	10088.3	9864.7	9785.2	8990.0	7842.0
45°	13646.6	13696.2	13641.6	12652.6	11792.9	10659.8	10505.8	10361.6	10287.1	9427.4	8150.2
47.5°	13651.5	13651.5	13328.5	12791.8	12543.3	11027.6	10953.0	11002.7	10923.2	9983.9	8517.9
50°	13293.7	13358.3	13189.3	12826.6	12742.1	11395.3	11499.7	11768.0	11688.5	10575.3	8915.5
52.5°	12553.2	12766.9	12762.0	12771.9	12453.8	11708.4	12076.2	12687.4	12553.2	11241.3	9337.9
55°	11246.2	11673.6	12056.3	12384.3	12205.4	11897.2	12781.8	13666.4	13527.3	11986.7	9765.3
57.5°	10128.1	10401.4	10878.5	11807.8	11912.2	12061.2	13442.8	14690.2	14565.9	12811.7	10212.6
60°	8850.9	9228.6	9705.7	11027.6	11554.3	12274.9	14168.4	15689.1	15569.8	13646.6	10644.9
62.5°	6887.9	7374.9	8329.1	9829.9	11032.5	12409.1	14739.9	16568.7	16514.0	14436.7	11032.5
65°	4800.6	5233.0	6569.8	8358.9	10202.6	12349.5	15197.1	17353.9	17304.2	15082.8	11305.9
67.5°	2802.9	3304.8	4815.6	6728.9	8736.6	11937.0	15346.2	17816.1	17816.1	15475.4	11380.4
70°	1600.2	1833.8	3175.6	4905.0	6699.0	10799.0	14928.7	17811.1	17895.6	15385.9	11072.3
72.5°	1118.2	1222.5	2136.9	3299.8	4542.2	8736.6	13835.4	16951.3	17065.6	14541.1	10018.7
75°	869.7	944.2	1505.8	2251.2	2862.5	5933.7	11445.0	14292.6	14595.7	12394.2	8100.5
77.5°	661.0	715.6	879.6	1406.4	1833.8	3409.2	7553.8	9372.7	9392.6	7588.6	4343.4
80°	482.1	536.7	586.4	859.7	974.0	1595.2	2852.6	3916.1	3806.7	3672.5	2350.6
82.5°	288.2	342.9	357.8	467.1	477.1	680.8	998.9	1262.3	1212.6	1615.1	1103.3
85°	124.2	173.9	183.9	213.7	203.8	278.3	397.6	333.0	298.2	342.9	238.5
87.5°	29.8	49.7	49.7	54.7	44.7	69.6	74.5	54.7	49.7	59.6	59.6
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°	6082.8	6082.8	6082.8	6082.8	6082.8	6082.8	6082.8	6082.8	6082.8	6082.8	6082.8
2.5°	6048.0	6033.1	6038.1	5953.6	5928.7	5903.9	5889.0	5879.1	5869.1	5884.0	5898.9
5°	6092.7	6058.0	6018.2	5894.0	5844.3	5789.6	5749.8	5715.1	5700.1	5700.1	5715.1
7.5°	6127.5	6067.9	5983.4	5819.4	5730.0	5655.4	5590.8	5546.1	5521.2	5521.2	5536.1
10°	6132.5	6048.0	5913.8	5715.1	5595.8	5486.5	5411.9	5362.2	5327.4	5327.4	5337.4
12.5°	6162.3	6048.0	5874.1	5635.5	5486.5	5352.3	5262.8	5188.3	5173.4	5173.4	5183.3
15°	6212.0	6072.9	5849.2	5566.0	5387.1	5233.0	5133.6	5054.1	5024.3	5044.2	5049.1
17.5°	6256.7	6087.8	5804.5	5476.5	5262.8	5093.9	4984.5	4914.9	4875.2	4919.9	4919.9
20°	6286.6	6087.8	5739.9	5362.2	5128.6	4939.8	4835.4	4750.9	4721.1	4775.8	4780.8
22.5°	6331.3	6082.8	5670.3	5247.9	4984.5	4785.7	4681.4	4616.8	4601.9	4661.5	4681.4
25°	6381.0	6092.7	5595.8	5118.7	4825.5	4631.7	4552.2	4522.3	4532.3	4606.8	4631.7
27.5°	6435.6	6112.6	5521.2	4974.6	4651.6	4477.6	4432.9	4447.8	4487.6	4582.0	4611.8
30°	6485.3	6117.6	5416.9	4805.6	4452.8	4288.8	4308.7	4373.3	4432.9	4527.3	4562.1
32.5°	6549.9	6122.6	5307.5	4621.7	4239.1	4119.8	4209.3	4313.6	4373.3	4462.7	4502.5
35°	6709.0	6207.0	5223.1	4442.8	4040.3	3975.7	4124.8	4259.0	4293.7	4373.3	4408.0
37.5°	6892.9	6346.2	5178.3	4259.0	3846.5	3831.6	4020.4	4154.6	4164.5	4214.2	4249.0
40°	7007.2	6405.8	5128.6	4104.9	3672.5	3682.5	3876.3	3980.7	3960.8	3995.6	4020.4
42.5°	7121.5	6425.7	5024.3	3975.7	3508.5	3518.5	3667.6	3742.1	3752.1	3826.6	3861.4
45°	7315.3	6480.4	4910.0	3856.4	3359.5	3324.7	3414.1	3513.5	3642.7	3786.8	3826.6
47.5°	7573.7	6594.7	4790.7	3712.3	3215.3	3101.0	3135.8	3309.8	3443.9	3578.1	3603.0
50°	7837.1	6709.0	4681.4	3538.4	3071.2	2862.5	2877.4	3036.4	3145.8	3250.1	3265.0
52.5°	8095.5	6808.4	4587.0	3374.4	2907.2	2579.2	2638.9	2802.9	2877.4	2927.1	2942.0
55°	8353.9	6892.9	4502.5	3235.2	2718.4	2355.6	2410.3	2564.3	2638.9	2663.7	2673.7
57.5°	8622.3	6992.2	4437.9	3115.9	2504.7	2156.8	2191.6	2300.9	2370.5	2400.3	2390.4
60°	8845.9	7076.7	4403.1	2991.7	2291.0	1972.9	1963.0	2062.4	2161.8	2191.6	2181.7
62.5°	9019.8	7131.4	4348.4	2832.7	2102.1	1789.1	1739.4	1868.6	1972.9	1992.8	2007.7
65°	9114.3	7136.4	4214.2	2628.9	1908.3	1590.3	1555.5	1684.7	1749.3	1769.2	1769.2
67.5°	9099.4	7056.8	3950.8	2355.6	1729.4	1411.4	1381.6	1461.1	1555.5	1570.4	1555.5
70°	8791.2	6728.9	3528.4	2067.4	1515.7	1252.3	1197.7	1277.2	1366.6	1312.0	1287.1
72.5°	7916.6	5879.1	2907.2	1749.3	1277.2	1053.6	1028.7	1108.2	1113.2	1123.1	1098.3
75°	6246.8	4378.2	2176.7	1361.7	1033.7	884.6	879.6	864.7	884.6	924.3	894.5
77.5°	3279.9	2186.6	1177.8	834.9	750.4	710.7	675.9	670.9	730.5	755.4	725.6
80°	1779.1	1227.5	675.9	501.9	457.2	462.2	506.9	497.0	561.6	576.5	551.6
82.5°	775.3	581.4	333.0	303.1	303.1	298.2	313.1	347.9	417.4	417.4	333.0
85°	169.0	144.1	129.2	149.1	169.0	169.0	169.0	169.0	119.3	64.6	44.7
87.5°	54.7	54.7	54.7	59.6	64.6	64.6	54.7	39.8	24.8	5.0	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)