

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: P841812

Luminaire Tested: **ARCH4-230-730-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-230-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34771 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 231.2
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

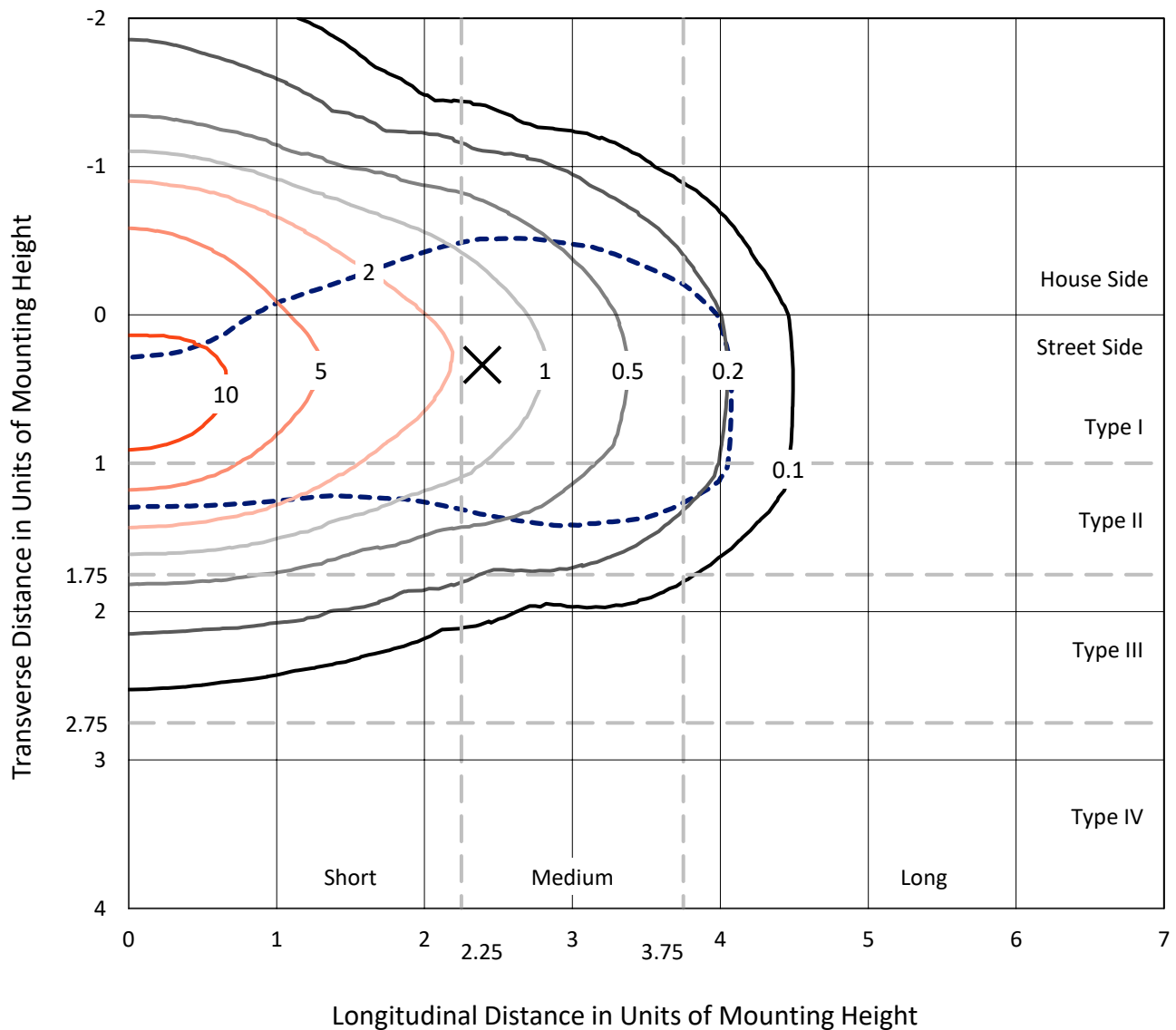


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Iso-Footcandle Lines of Horizontal Illumination

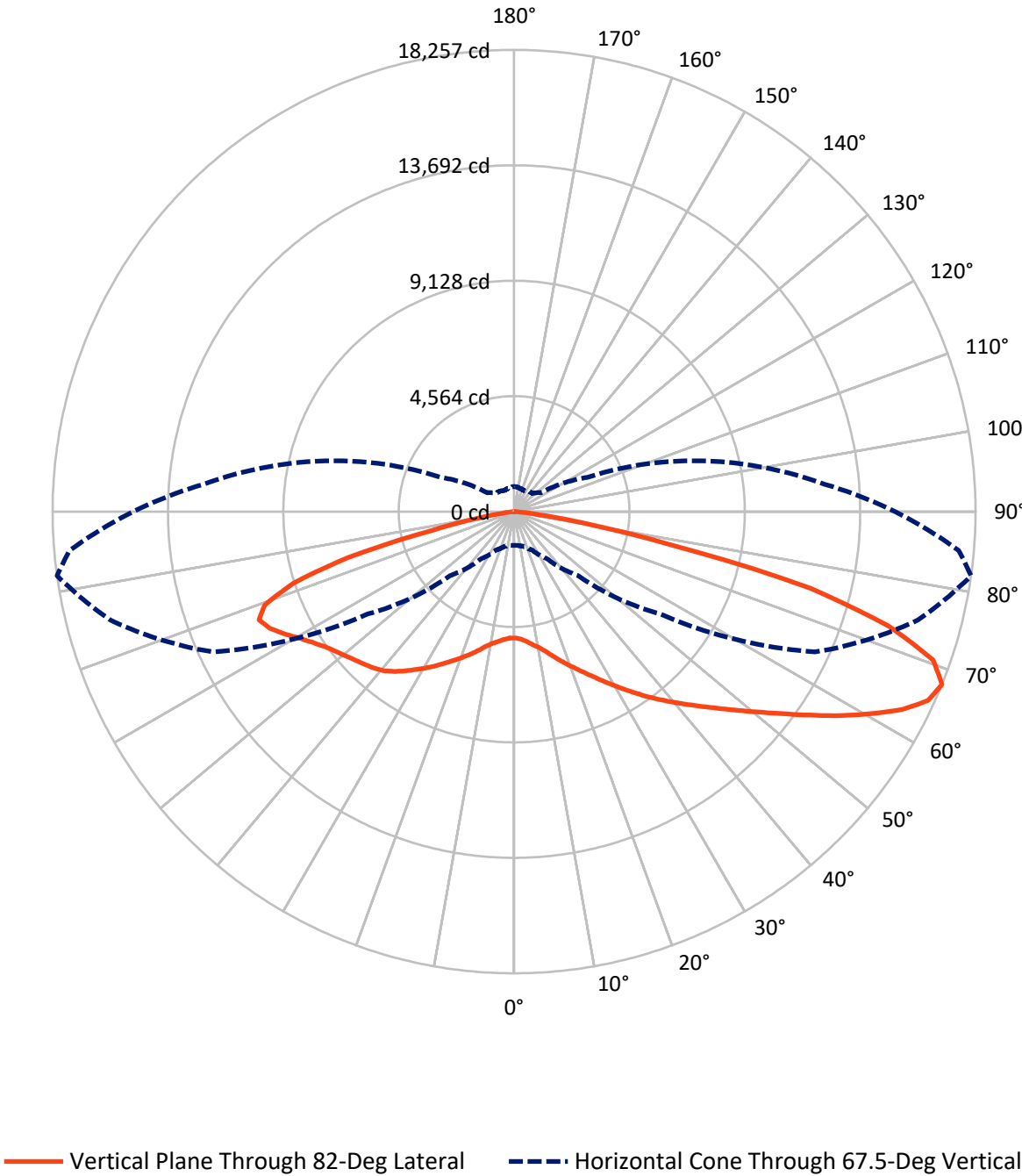
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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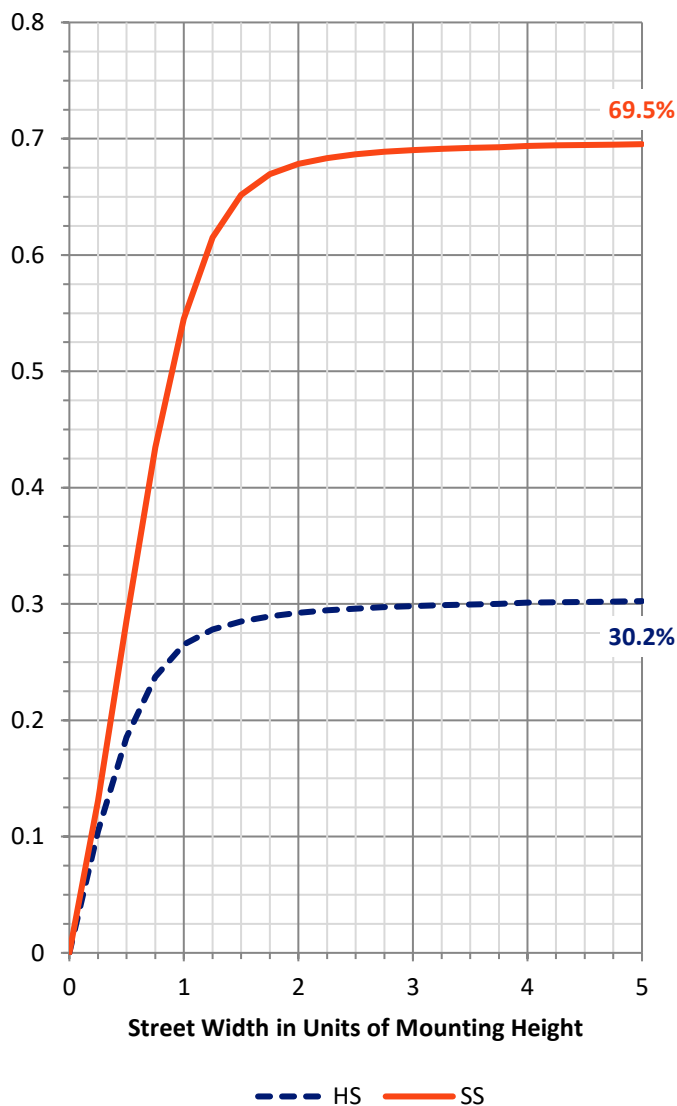
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10589.2	0.0	10589.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	24181.8	0.0	24181.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	34771.0	0.0	34771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.6	1.5
10°-20°	1860.6	5.4
20°-30°	3739.5	10.8
30°-40°	5874.2	16.9
40°-50°	7155.9	20.6
50°-60°	6761.4	19.4
60°-70°	5583.4	16.1
70°-80°	3040.4	8.7
80°-90°	239.0	0.7
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°	34771.0	100.0
0°-180°	34771.0	100.0

Coefficient of Utilization



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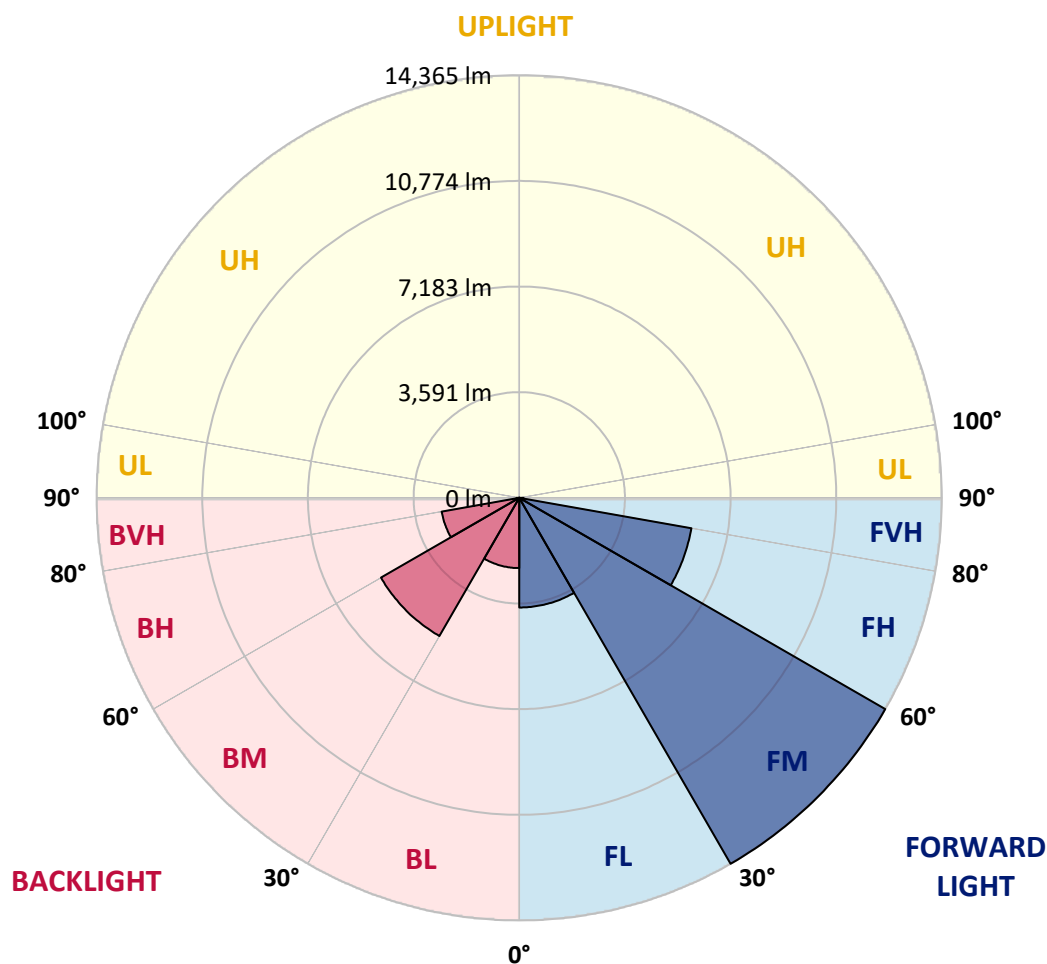
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3728.7	10.7			
FM	(30°-60°)	14365.4	41.3			
FH	(60°-80°)	5943.6	17.1			G3/7500
FVH	(80°-90°)	144.1	0.4			G2/225
BL	(0°-30°)	2387.9	6.9	B3/2500		
BM	(30°-60°)	5426.1	15.6	B4/8500		
BH	(60°-80°)	2680.2	7.7	B4/5000		G4/5000
BVH	(80°-90°)	95.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4998.3	4998.3	4998.3	4998.3	4998.3	4998.3	4998.3	4998.3	4998.3	4998.3	4998.3
2.5°	5225.5	5225.5	5265.9	5265.9	5230.6	5175.0	5159.9	5099.3	5043.8	5043.8	5048.8
5°	5725.3	5720.3	5750.6	5710.2	5624.4	5513.3	5437.6	5306.3	5195.2	5159.9	5154.8
7.5°	6336.2	6331.2	6346.3	6280.7	6119.1	5937.4	5785.9	5573.9	5392.1	5316.4	5296.2
10°	7017.8	7012.8	6997.6	6886.6	6669.5	6386.7	6159.5	5866.7	5594.1	5472.9	5447.7
12.5°	7800.4	7790.3	7755.0	7593.4	7295.5	6932.0	6603.8	6225.2	5861.7	5695.0	5639.5
15°	8673.8	8658.7	8593.1	8396.2	7997.3	7537.9	7113.8	6629.1	6184.8	5967.7	5892.0
17.5°	9592.7	9592.7	9491.7	9198.9	8754.6	8184.1	7659.0	7043.1	6523.1	6255.5	6164.6
20°	10526.8	10521.7	10395.5	10042.1	9517.0	8860.6	8194.2	7517.7	6871.4	6548.3	6437.2
22.5°	11511.3	11501.2	11344.7	10940.8	10314.7	9572.5	8795.0	7987.2	7255.1	6866.4	6725.0
25°	12642.2	12627.1	12435.2	11940.4	11198.2	10360.1	9471.6	8537.5	7694.4	7219.8	7053.2
27.5°	13843.8	13823.6	13596.4	13020.9	12208.0	11198.2	10218.8	9173.7	8179.1	7613.6	7426.8
30°	14914.2	14899.0	14651.6	14060.9	13126.9	12031.3	10930.7	9809.8	8689.0	8032.6	7800.4
32.5°	15722.0	15722.0	15499.8	14919.2	13949.8	12829.0	11647.6	10410.6	9219.1	8482.0	8209.4
35°	16211.7	16226.8	16035.0	15570.5	14656.7	13581.3	12389.8	11117.5	9784.6	8961.6	8668.8
37.5°	16282.4	16332.9	16221.8	15908.8	15146.4	14207.3	13116.8	11799.0	10370.2	9446.3	9118.1
40°	15954.2	15989.6	15994.6	15873.4	15348.4	14656.7	13758.0	12521.0	10991.2	9956.2	9577.6
42.5°	15297.9	15323.1	15368.6	15403.9	15201.9	14853.6	14247.7	13192.5	11652.6	10476.3	10032.0
45°	14449.7	14444.6	14520.4	14671.8	14661.7	14742.5	14520.4	13803.4	12339.3	11067.0	10536.8
47.5°	13182.4	13157.2	13424.8	13768.1	13939.7	14318.4	14525.4	14283.1	13086.5	11718.3	11112.4
50°	11198.2	11173.0	11758.7	12566.5	13071.3	13646.9	14247.7	14570.8	13869.1	12450.3	11738.5
52.5°	8784.9	8759.7	9501.8	10915.5	12016.1	12854.2	13687.3	14636.5	14611.2	13268.2	12445.3
55°	6533.1	6513.0	7234.9	8764.7	10546.9	11935.4	13000.7	14464.8	15308.0	14207.3	13303.6
57.5°	4604.5	4594.4	5220.5	6487.7	8658.7	10814.5	12339.3	14131.6	15949.2	15227.2	14273.0
60°	3231.2	3216.1	3670.5	4649.9	6548.3	9123.2	11682.9	13687.3	16428.8	16231.9	15302.9
62.5°	2176.0	2165.9	2489.1	3307.0	4649.9	7022.9	10688.3	13389.4	16701.4	17241.7	16343.0
65°	1651.0	1645.9	1792.3	2241.7	3291.8	5043.8	9108.0	13354.1	16736.8	17999.0	17226.5
67.5°	1332.9	1337.9	1418.7	1676.2	2277.0	3584.6	7063.3	13131.9	16550.0	18256.5	17655.7
70°	1090.5	1090.5	1125.9	1297.5	1681.3	2418.4	4932.7	12122.2	16029.9	17585.0	17145.7
72.5°	833.1	838.1	949.2	1050.2	1267.2	1696.4	3160.5	10032.0	14803.1	15504.9	15171.6
75°	661.4	656.3	722.0	863.3	984.5	1211.7	1938.7	7194.5	12596.8	12117.1	11905.1
77.5°	474.6	469.5	520.0	641.2	747.2	858.3	1156.2	3630.1	6851.2	6295.9	6139.3
80°	323.1	313.0	358.5	444.3	494.8	504.9	565.5	1393.5	2988.9	2817.2	2781.9
82.5°	166.6	166.6	191.9	252.4	257.5	262.5	252.4	449.3	989.6	923.9	883.5
85°	65.6	65.6	70.7	85.8	85.8	90.9	90.9	116.1	106.0	101.0	95.9
87.5°	5.0	5.0	10.1	10.1	15.1	15.1	15.1	20.2	25.2	25.2	25.2
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°	4998.3	4998.3	4998.3	4998.3	4998.3	4998.3	4998.3	4998.3	4998.3	4998.3	4998.3
2.5°	5038.7	5018.5	4952.9	4937.7	4927.6	4912.5	4917.5	4882.2	4867.0	4872.1	4851.9
5°	5129.6	5094.2	5013.5	4978.1	4968.0	4952.9	4968.0	4942.8	4917.5	4927.6	4917.5
7.5°	5255.8	5205.3	5104.3	5069.0	5063.9	5048.8	5069.0	5048.8	5028.6	5038.7	5018.5
10°	5387.1	5321.4	5210.4	5175.0	5175.0	5170.0	5190.2	5159.9	5139.7	5144.7	5134.6
12.5°	5578.9	5493.1	5371.9	5341.6	5326.5	5341.6	5346.7	5306.3	5270.9	5276.0	5260.9
15°	5811.2	5715.2	5584.0	5538.5	5528.4	5523.4	5503.2	5452.7	5407.3	5402.2	5387.1
17.5°	6063.6	5942.4	5785.9	5740.5	5695.0	5679.9	5629.4	5563.8	5493.1	5493.1	5472.9
20°	6306.0	6169.6	5982.8	5917.2	5851.6	5791.0	5705.1	5599.1	5508.2	5493.1	5472.9
22.5°	6568.5	6406.9	6189.8	6093.9	5977.8	5856.6	5710.2	5568.8	5452.7	5427.5	5412.3
25°	6861.3	6659.4	6401.9	6260.5	6073.7	5886.9	5669.8	5488.0	5351.7	5311.3	5301.2
27.5°	7184.4	6942.1	6629.1	6422.1	6149.4	5856.6	5578.9	5361.8	5195.2	5144.7	5129.6
30°	7512.6	7224.8	6836.1	6533.1	6149.4	5760.7	5412.3	5159.9	4968.0	4897.3	4887.2
32.5°	7840.8	7517.7	7022.9	6593.7	6088.9	5599.1	5195.2	4897.3	4680.2	4594.4	4614.6
35°	8234.6	7840.8	7194.5	6619.0	5987.9	5402.2	4947.8	4599.5	4377.3	4301.6	4316.7
37.5°	8643.5	8163.9	7330.9	6598.8	5846.5	5180.1	4670.1	4331.9	4054.2	3922.9	3938.1
40°	8997.0	8456.7	7426.8	6528.1	5664.8	4927.6	4397.5	3953.2	3569.5	3443.3	3428.1
42.5°	9330.2	8673.8	7477.3	6422.1	5457.8	4634.8	4008.7	3438.2	3054.5	2898.0	2903.1
45°	9678.6	8885.9	7457.1	6280.7	5200.3	4291.5	3508.9	2933.4	2595.1	2453.7	2458.8
47.5°	10077.4	9113.1	7436.9	6129.2	4887.2	3847.2	3029.3	2489.1	2196.2	2095.3	2085.2
50°	10501.5	9365.5	7411.6	5942.4	4538.9	3352.4	2554.7	2075.1	1827.7	1762.0	1746.9
52.5°	10981.1	9638.2	7396.5	5720.3	4119.8	2827.3	2130.6	1711.5	1544.9	1499.5	1494.4
55°	11556.7	9956.2	7416.7	5452.7	3614.9	2332.5	1772.1	1474.2	1363.2	1337.9	1332.9
57.5°	12258.5	10365.2	7477.3	5139.7	3084.8	1903.4	1509.6	1327.8	1257.2	1237.0	1237.0
60°	13020.9	10829.7	7588.3	4786.3	2554.7	1570.2	1337.9	1211.7	1181.4	1206.7	1206.7
62.5°	13843.8	11374.9	7785.3	4357.1	2059.9	1327.8	1201.6	1115.8	1095.6	1146.1	1151.1
65°	14606.2	11905.1	7911.5	3842.1	1635.8	1151.1	1095.6	1019.9	1030.0	1080.4	1075.4
67.5°	15075.7	12344.3	7734.8	3195.9	1297.5	1019.9	984.5	918.9	944.1	984.5	989.6
70°	14787.9	12096.9	6861.3	2413.3	1014.8	888.6	863.3	823.0	843.1	893.6	913.8
72.5°	13379.3	10834.7	5336.6	1630.8	817.9	747.2	757.3	737.1	762.4	807.8	853.2
75°	10860.0	8189.2	3579.6	1045.1	646.2	636.1	651.3	636.1	646.2	691.7	716.9
77.5°	5669.8	3993.6	1782.2	651.3	479.6	494.8	520.0	525.1	555.4	565.5	575.6
80°	2645.6	1797.4	742.2	363.5	318.1	348.4	398.9	403.9	414.0	429.1	434.2
82.5°	863.3	540.2	343.3	196.9	181.8	196.9	257.5	308.0	313.0	343.3	343.3
85°	90.9	55.5	75.7	80.8	70.7	85.8	116.1	111.1	50.5	30.3	30.3
87.5°	25.2	20.2	25.2	25.2	20.2	20.2	15.1	5.0	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)