

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: P841625

Luminaire Tested: **ARCH4-200-750-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-200-750-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32939 lumens
Efficiency: N/A
Efficacy: 161.7 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): 203.7
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

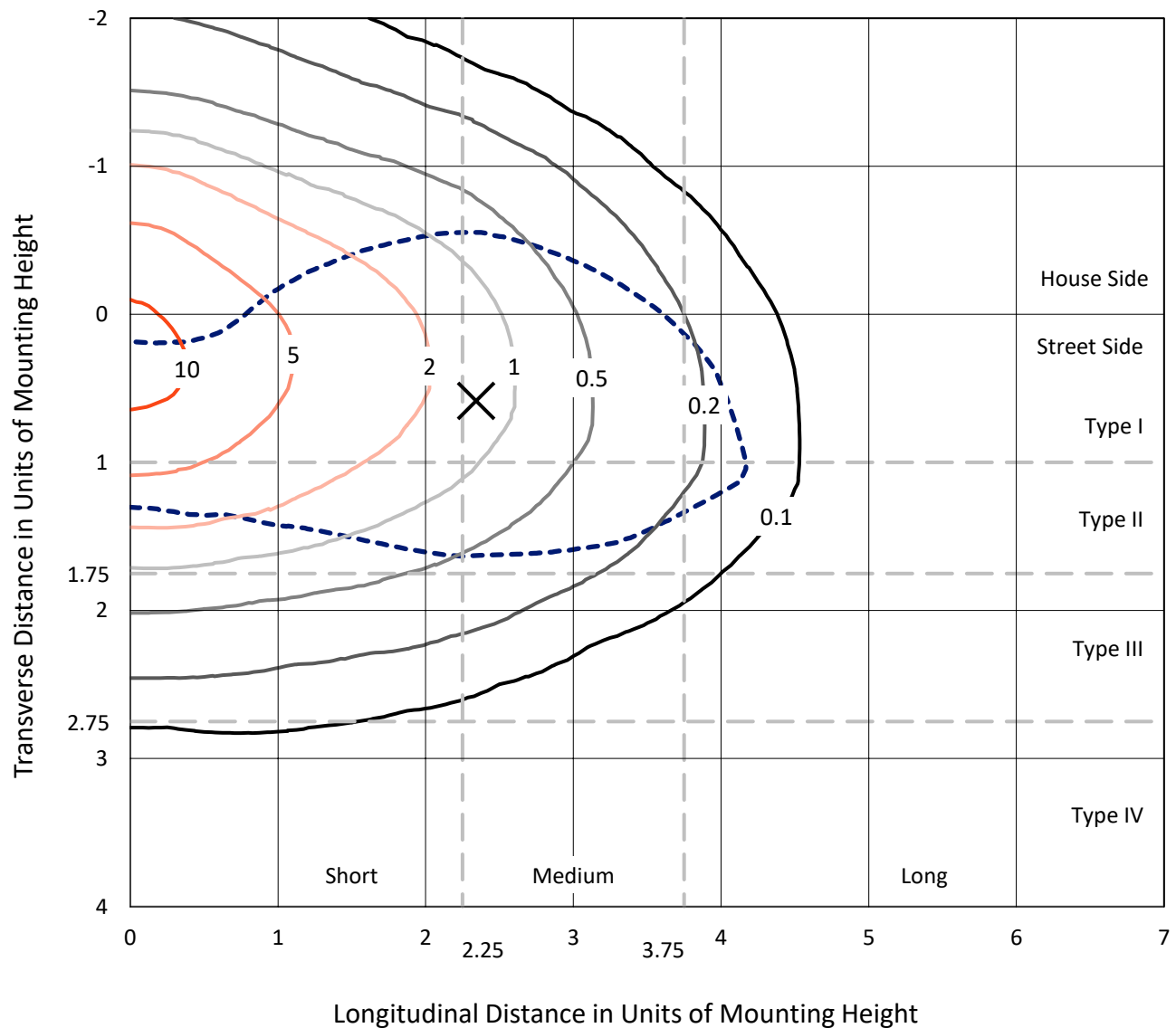


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Iso-Footcandle Lines of Horizontal Illumination

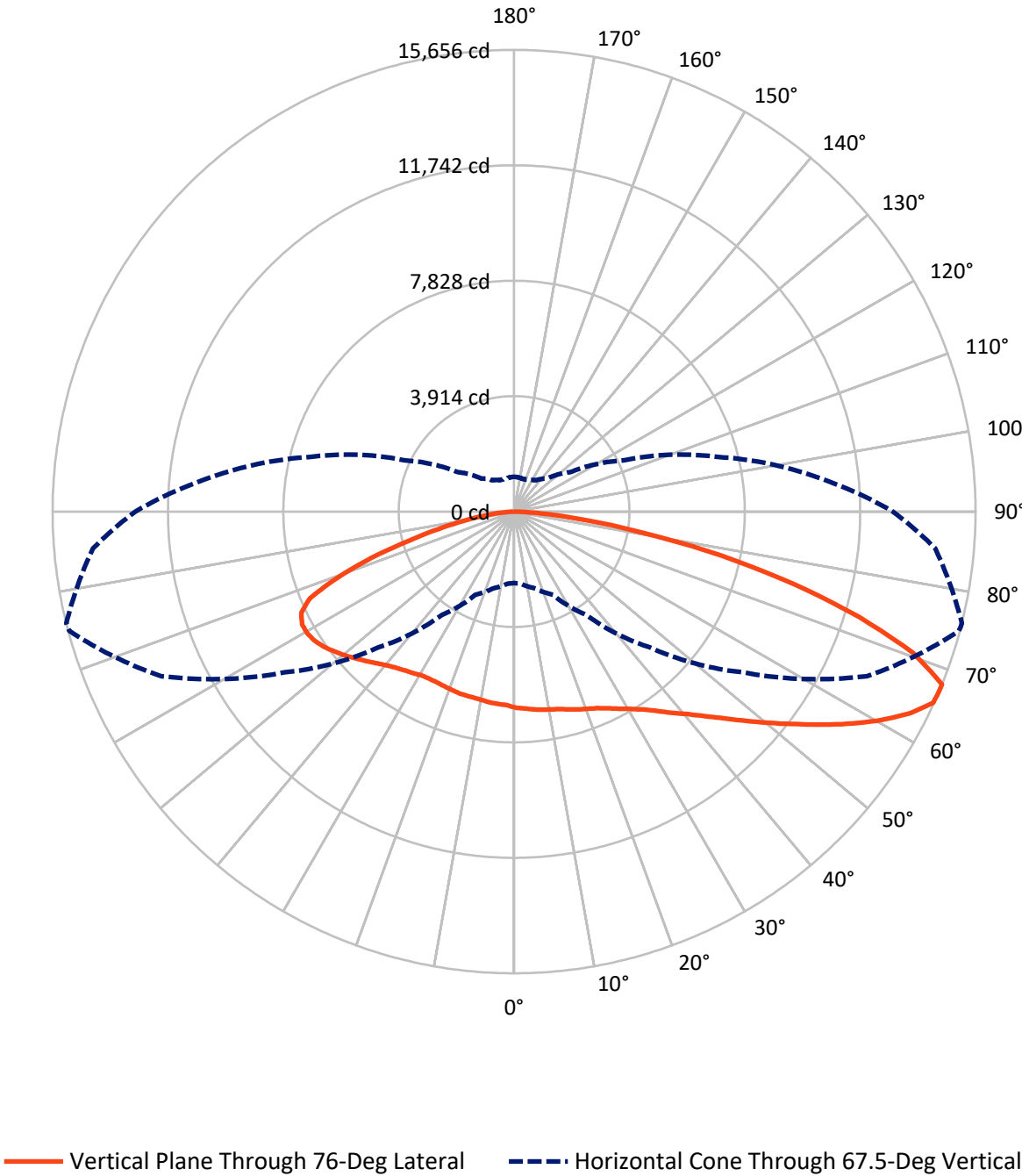
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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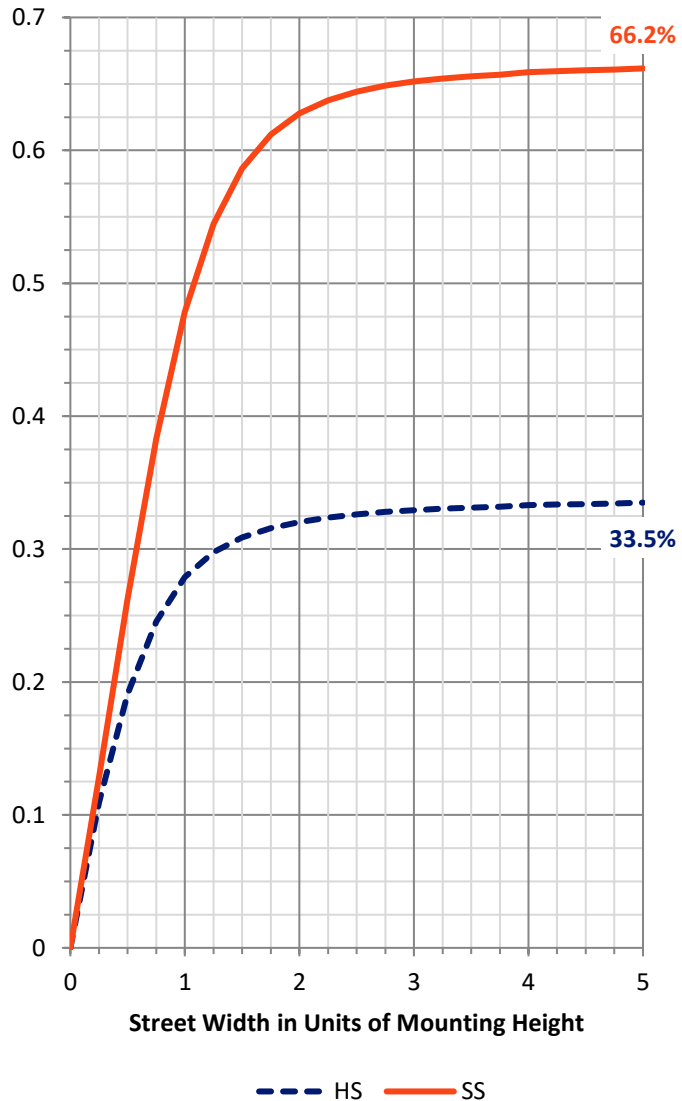
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11130.3	0.0	11130.3
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	21808.7	0.0	21808.7
	% Fixture	66.2	0.0	66.2
Total	Lumens	32939.0	0.0	32939.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.6	1.9
10°-20°	1961.5	6.0
20°-30°	3332.6	10.1
30°-40°	4741.8	14.4
40°-50°	5988.7	18.2
50°-60°	6483.9	19.7
60°-70°	6030.8	18.3
70°-80°	3239.1	9.8
80°-90°	519.0	1.6
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°	32939.0	100.0
0°-180°	32939.0	100.0

Coefficient of Utilization



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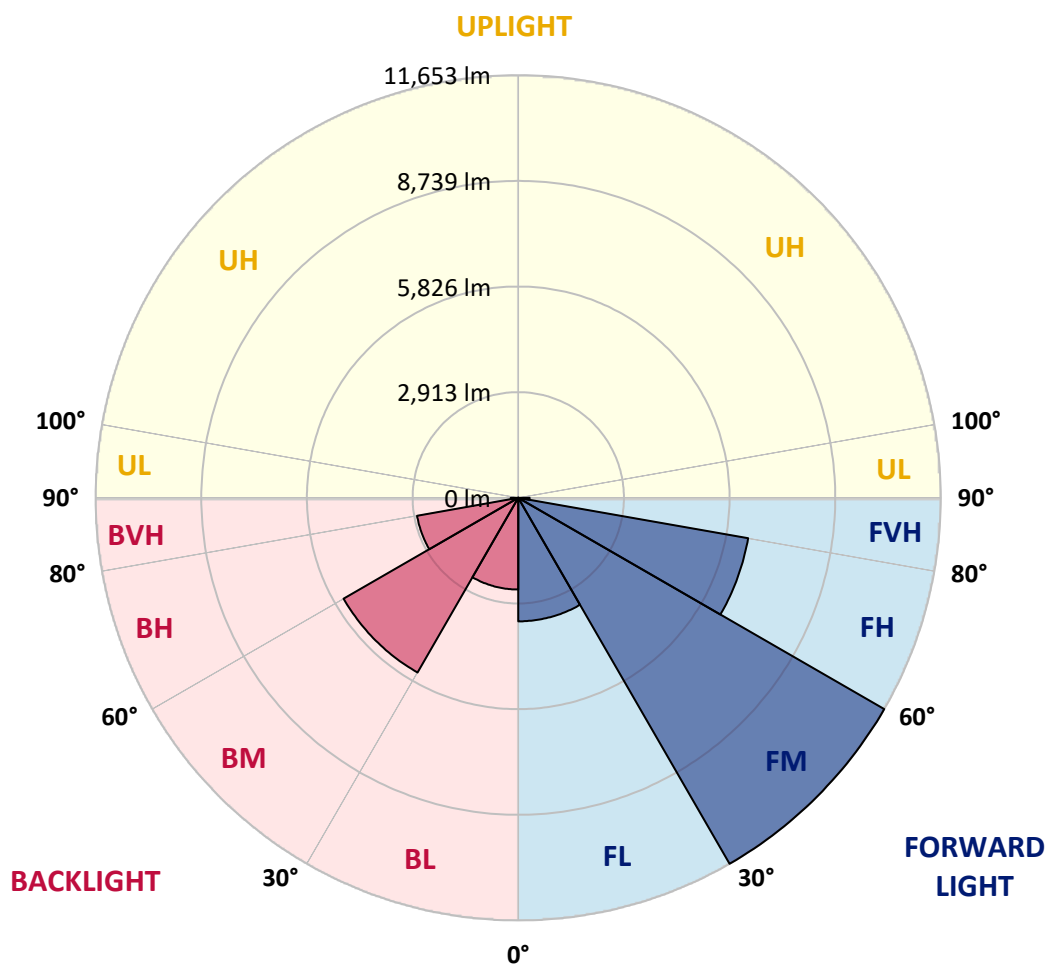
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3406.2	10.3			
FM	(30°-60°)	11652.6	35.4			
FH	(60°-80°)	6436.0	19.5			G3/7500
FVH	(80°-90°)	314.0	1.0			G3/500
BL	(0°-30°)	2529.4	7.7	B4/5000		
BM	(30°-60°)	5561.9	16.9	B4/8500		
BH	(60°-80°)	2833.9	8.6	B4/5000		G4/5000
BVH	(80°-90°)	205.1	0.6			G2/225
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°	76°	85°
0°	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6
2.5°	6855.4	6843.2	6794.3	6800.4	6800.4	6794.3	6720.9	6690.3	6690.3	6684.2	6616.9
5°	7100.0	7081.7	7026.6	7014.4	6990.0	6959.4	6843.2	6775.9	6745.3	6739.2	6647.5
7.5°	7387.5	7363.0	7295.7	7259.0	7197.9	7118.4	6971.6	6867.6	6794.3	6788.1	6659.7
10°	7674.9	7650.4	7570.9	7503.7	7418.0	7289.6	7100.0	6947.1	6831.0	6818.7	6665.8
12.5°	8017.3	7992.9	7895.0	7809.4	7681.0	7509.8	7259.0	7051.1	6892.1	6873.8	6684.2
15°	8378.2	8341.5	8243.6	8145.8	7986.8	7766.6	7467.0	7191.8	6990.0	6959.4	6739.2
17.5°	8677.8	8628.9	8549.4	8451.5	8274.2	8017.3	7674.9	7332.4	7081.7	7057.2	6794.3
20°	8934.7	8898.0	8812.4	8720.6	8531.0	8249.7	7870.6	7473.1	7167.3	7136.7	6837.1
22.5°	9179.3	9130.4	9081.4	9014.2	8806.2	8494.4	8096.9	7644.3	7277.4	7240.7	6892.1
25°	9460.6	9405.6	9387.2	9350.5	9105.9	8787.9	8372.0	7858.3	7430.3	7387.5	6990.0
27.5°	9809.2	9748.0	9711.3	9711.3	9417.8	9087.6	8665.6	8109.1	7607.6	7570.9	7112.3
30°	10176.1	10102.7	10047.7	10047.7	9717.4	9387.2	8953.0	8359.8	7809.4	7766.6	7271.3
32.5°	10500.2	10426.8	10365.7	10359.6	10017.1	9686.9	9252.7	8635.0	8054.0	7999.0	7467.0
35°	10751.0	10683.7	10628.6	10640.9	10316.8	9992.6	9589.0	9001.9	8359.8	8298.7	7723.8
37.5°	10903.8	10879.4	10848.8	10891.6	10592.0	10286.2	9937.6	9356.6	8708.4	8653.4	8041.8
40°	10983.3	10965.0	11087.3	11142.3	10824.3	10549.1	10286.2	9723.6	9087.6	9026.4	8408.7
42.5°	11099.5	11252.4	11301.3	11289.1	10995.6	10751.0	10604.2	10121.1	9534.0	9478.9	8849.1
45°	10683.7	10647.0	10916.1	11062.8	11007.8	10879.4	10903.8	10598.1	10053.8	9998.8	9356.6
47.5°	10127.2	10078.3	10231.1	10592.0	10806.0	10928.3	11172.9	11093.4	10653.1	10604.2	9949.8
50°	8953.0	9020.3	9589.0	10072.1	10494.1	10916.1	11399.2	11625.5	11313.6	11264.7	10585.8
52.5°	7650.4	7717.7	8310.9	9423.9	10114.9	10824.3	11564.3	12157.5	12029.1	11974.0	11264.7
55°	6702.5	6849.3	7522.0	8329.2	9576.8	10536.9	11662.2	12701.8	12799.6	12750.7	12004.6
57.5°	5760.8	5870.8	6378.4	7093.9	8842.9	10035.4	11656.0	13209.4	13606.9	13557.9	12756.8
60°	4653.9	4794.5	5198.1	5968.7	7864.5	9436.1	11484.8	13606.9	14383.5	14346.8	13484.6
62.5°	3895.5	3938.3	4225.8	4892.4	6604.7	8677.8	11099.5	13820.9	15086.8	15062.3	14138.9
65°	3137.2	3143.3	3406.3	3962.8	5387.7	7736.0	10445.2	13741.4	15618.8	15631.1	14609.8
67.5°	2421.7	2452.3	2690.8	3112.8	4280.8	6513.0	9509.5	13203.2	15625.0	15655.5	14340.7
70°	1675.6	1700.1	2060.9	2470.6	3308.5	5192.0	8243.6	11778.3	14340.7	14365.2	12854.7
72.5°	1180.3	1192.5	1577.8	1975.3	2586.8	3913.9	6219.4	9741.9	12224.8	12243.1	10812.1
75°	880.6	892.9	1113.0	1498.3	1981.4	2709.1	4250.2	7460.8	9766.4	9766.4	8537.2
77.5°	623.8	629.9	721.6	1033.5	1320.9	1828.5	2556.3	4886.2	7167.3	7179.5	6219.4
80°	422.0	428.1	470.9	697.2	825.6	990.7	1388.2	2562.4	4519.3	4537.7	3950.6
82.5°	220.2	232.4	263.0	354.7	415.9	550.4	715.5	1302.6	2501.2	2550.1	2372.8
85°	85.6	85.6	97.8	116.2	152.9	214.0	330.2	495.4	1131.4	1168.1	1045.7
87.5°	30.6	30.6	36.7	36.7	42.8	48.9	55.0	73.4	128.4	128.4	122.3
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°	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6
2.5°	6592.5	6592.5	6561.9	6574.1	6568.0	6555.8	6543.5	6561.9	6543.5	6500.7	6494.6
5°	6604.7	6592.5	6543.5	6537.4	6519.1	6494.6	6464.0	6476.3	6445.7	6409.0	6402.9
7.5°	6610.8	6586.3	6519.1	6494.6	6457.9	6409.0	6360.1	6360.1	6317.3	6280.6	6274.4
10°	6598.6	6568.0	6476.3	6427.3	6360.1	6286.7	6219.4	6201.1	6152.1	6109.3	6109.3
12.5°	6604.7	6561.9	6445.7	6366.2	6274.4	6182.7	6097.1	6072.6	6029.8	5987.0	5980.9
15°	6641.4	6580.2	6433.4	6329.5	6194.9	6091.0	5999.3	5980.9	5944.2	5913.6	5913.6
17.5°	6678.1	6598.6	6415.1	6268.3	6103.2	5987.0	5901.4	5901.4	5876.9	5858.6	5858.6
20°	6696.4	6604.7	6378.4	6182.7	5993.1	5870.8	5791.3	5803.6	5797.4	5791.3	5791.3
22.5°	6739.2	6616.9	6347.8	6103.2	5876.9	5748.5	5675.1	5693.5	5687.4	5687.4	5693.5
25°	6806.5	6647.5	6323.4	6029.8	5766.9	5626.2	5546.7	5558.9	5558.9	5558.9	5558.9
27.5°	6898.2	6708.6	6317.3	5962.6	5656.8	5497.8	5399.9	5399.9	5375.5	5381.6	5387.7
30°	7038.9	6824.8	6329.5	5901.4	5540.6	5338.8	5222.6	5204.2	5198.1	5210.4	5216.5
32.5°	7210.1	6983.8	6402.9	5858.6	5418.3	5161.4	5014.7	5008.6	4990.2	4990.2	4990.2
35°	7424.2	7136.7	6470.1	5852.5	5296.0	4971.9	4812.9	4794.5	4751.7	4733.4	4733.4
37.5°	7699.3	7375.2	6549.6	5809.7	5192.0	4788.4	4598.8	4537.7	4488.7	4482.6	4482.6
40°	8035.7	7644.3	6665.8	5760.8	5081.9	4598.8	4348.1	4244.1	4250.2	4274.7	4274.7
42.5°	8433.2	7974.5	6812.6	5736.3	4922.9	4403.1	4054.5	3932.2	3975.0	3999.5	4005.6
45°	8898.0	8365.9	6977.7	5705.7	4776.2	4183.0	3742.7	3589.8	3608.1	3614.2	3620.3
47.5°	9436.1	8800.1	7149.0	5681.2	4611.0	3907.8	3400.2	3198.4	3192.3	3155.6	3167.8
50°	9998.8	9258.8	7326.3	5638.4	4409.2	3583.7	3039.4	2800.9	2752.0	2696.9	2703.0
52.5°	10598.1	9729.7	7491.4	5571.2	4158.5	3253.4	2696.9	2440.1	2342.2	2281.1	2293.3
55°	11258.5	10212.8	7650.4	5467.2	3895.5	2923.2	2391.1	2128.2	2005.9	1956.9	1963.1
57.5°	11864.0	10677.6	7766.6	5338.8	3608.1	2623.5	2122.1	1865.2	1785.7	1779.6	1785.7
60°	12451.0	11069.0	7815.5	5161.4	3314.6	2348.3	1871.3	1675.6	1620.6	1651.2	1657.3
62.5°	12946.4	11319.7	7791.1	4922.9	3014.9	2085.4	1669.5	1528.9	1492.2	1553.3	1559.4
65°	13233.8	11399.2	7619.8	4580.5	2690.8	1828.5	1479.9	1327.1	1308.7	1345.4	1363.7
67.5°	12854.7	10903.8	7155.1	4109.6	2330.0	1590.0	1296.5	1174.2	1143.6	1174.2	1174.2
70°	11393.1	9448.4	6054.3	3363.5	1932.5	1357.6	1125.2	1039.6	1015.2	1039.6	1033.5
72.5°	9491.2	7858.3	4770.0	2623.5	1522.7	1143.6	978.5	899.0	874.5	850.0	837.8
75°	7363.0	5968.7	3461.3	1926.4	1149.7	917.3	819.5	746.1	684.9	709.4	697.2
77.5°	5393.8	4189.1	2452.3	1333.2	825.6	709.4	642.1	587.1	544.3	593.2	587.1
80°	3473.6	2709.1	1638.9	892.9	568.7	495.4	470.9	440.3	483.1	629.9	642.1
82.5°	2122.1	1718.4	978.5	581.0	373.0	330.2	305.8	305.8	495.4	544.3	550.4
85°	947.9	911.2	532.0	299.7	207.9	189.6	171.2	220.2	201.8	146.8	152.9
87.5°	152.9	159.0	116.2	104.0	79.5	79.5	61.2	42.8	30.6	18.3	18.3
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)