

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: P841661

Luminaire Tested: **ARCH4-210-727-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841661
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: ARCH4-210-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31380 lumens
Efficiency: N/A
Efficacy: 147.3 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): 213.1
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

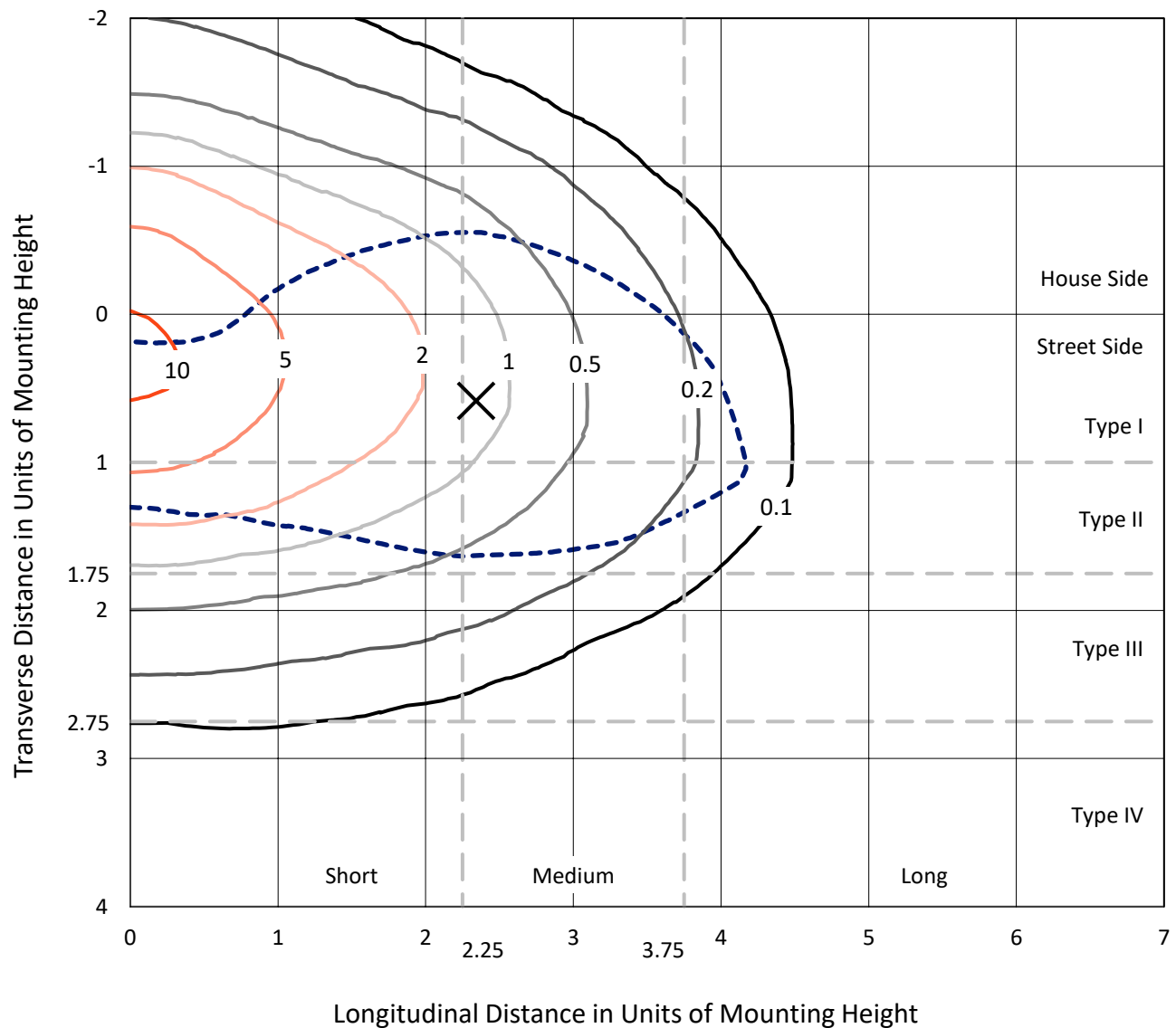


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Iso-Footcandle Lines of Horizontal Illumination

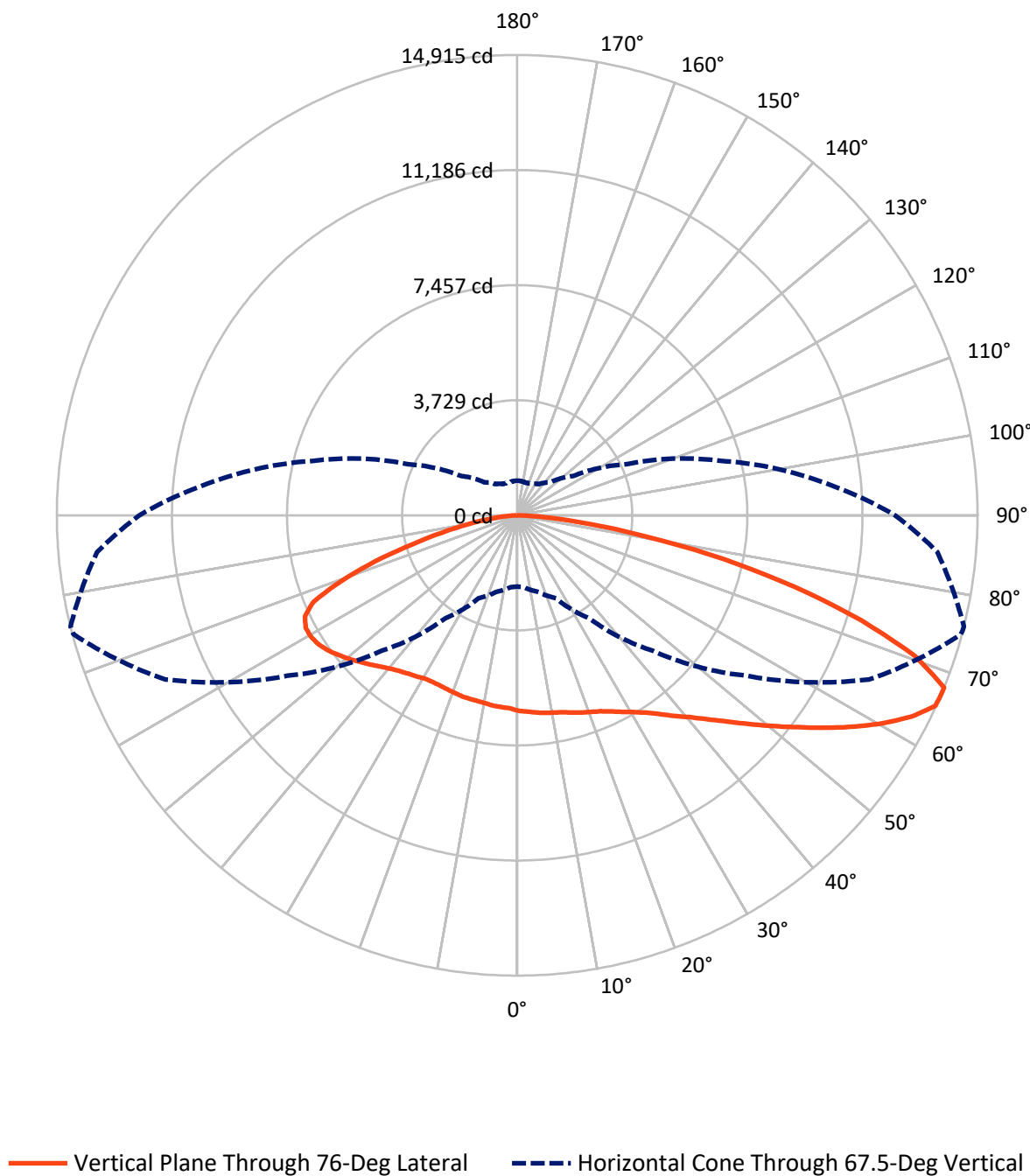
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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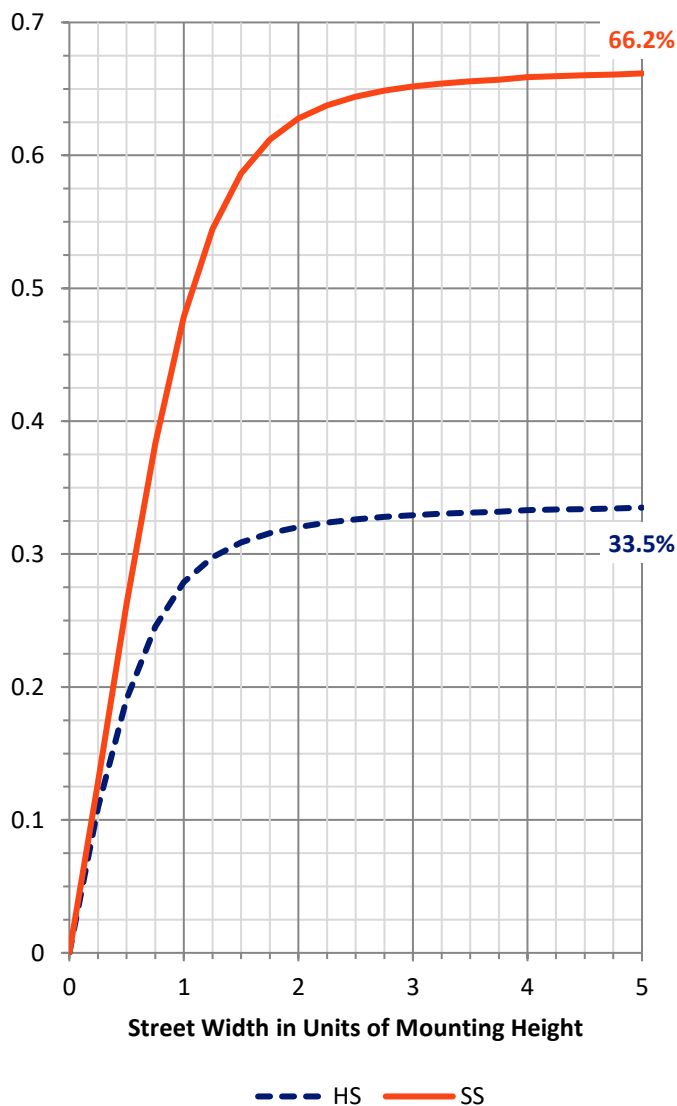
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10603.5	0.0	10603.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	20776.5	0.0	20776.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	31380.0	0.0	31380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.2	1.9
10°-20°	1868.6	6.0
20°-30°	3174.9	10.1
30°-40°	4517.4	14.4
40°-50°	5705.3	18.2
50°-60°	6177.1	19.7
60°-70°	5745.3	18.3
70°-80°	3085.8	9.8
80°-90°	494.5	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°	31380.0	100.0
0°-180°	31380.0	100.0

Coefficient of Utilization



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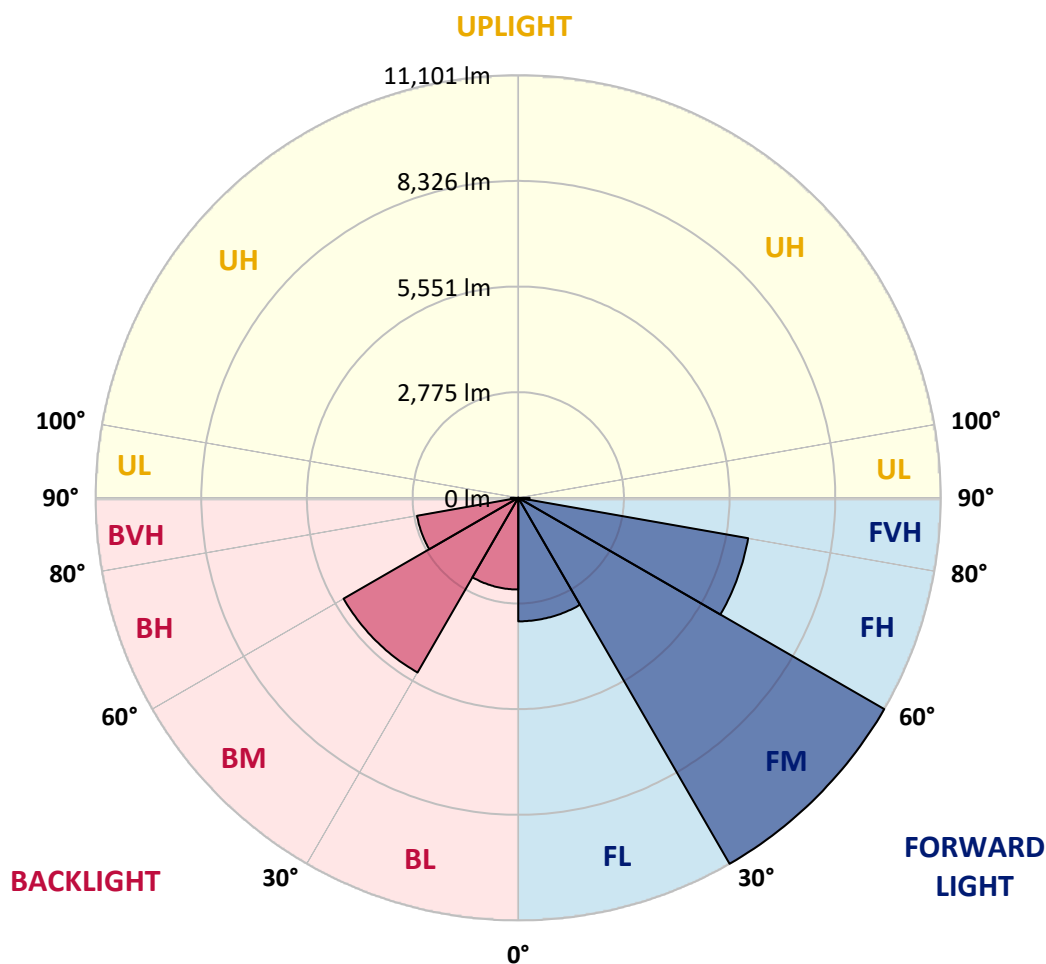
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3245.0	10.3			
FM	(30°-60°)	11101.0	35.4			
FH	(60°-80°)	6131.4	19.5			G3/7500
FVH	(80°-90°)	299.1	1.0			G3/500
BL	(0°-30°)	2409.7	7.7	B3/2500		
BM	(30°-60°)	5298.7	16.9	B4/8500		
BH	(60°-80°)	2699.7	8.6	B4/5000		G4/5000
BVH	(80°-90°)	195.4	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°	6338.7	6338.7	6338.7	6338.7	6338.7	6338.7	6338.7	6338.7	6338.7	6338.7	6338.7
2.5°	6530.9	6519.3	6472.7	6478.5	6478.5	6472.7	6402.8	6373.6	6373.6	6367.8	6303.7
5°	6764.0	6746.5	6694.1	6682.4	6659.1	6630.0	6519.3	6455.2	6426.1	6420.3	6332.9
7.5°	7037.8	7014.5	6950.4	6915.5	6857.2	6781.5	6641.6	6542.6	6472.7	6466.9	6344.5
10°	7311.6	7288.3	7212.6	7148.5	7066.9	6944.6	6764.0	6618.3	6507.6	6496.0	6350.3
12.5°	7637.9	7614.6	7521.4	7439.8	7317.5	7154.3	6915.5	6717.4	6565.9	6548.4	6367.8
15°	7981.6	7946.7	7853.5	7760.2	7608.8	7399.0	7113.5	6851.4	6659.1	6630.0	6420.3
17.5°	8267.1	8220.5	8144.8	8051.5	7882.6	7637.9	7311.6	6985.4	6746.5	6723.2	6472.7
20°	8511.8	8476.8	8395.3	8307.9	8127.3	7859.3	7498.1	7119.4	6828.1	6798.9	6513.5
22.5°	8744.8	8698.2	8651.6	8587.5	8389.4	8092.3	7713.6	7282.5	6932.9	6898.0	6565.9
25°	9012.8	8960.4	8942.9	8908.0	8674.9	8372.0	7975.8	7486.4	7078.6	7037.8	6659.1
27.5°	9344.9	9286.6	9251.7	9251.7	8972.0	8657.4	8255.4	7725.3	7247.5	7212.6	6775.6
30°	9694.5	9624.6	9572.1	9572.1	9257.5	8942.9	8529.3	7964.1	7439.8	7399.0	6927.1
32.5°	10003.2	9933.3	9875.1	9869.2	9543.0	9228.4	8814.7	8226.3	7672.8	7620.4	7113.5
35°	10242.1	10178.0	10125.6	10137.2	9828.5	9519.7	9135.2	8575.9	7964.1	7905.9	7358.2
37.5°	10387.8	10364.5	10335.3	10376.1	10090.6	9799.3	9467.3	8913.8	8296.2	8243.8	7661.2
40°	10463.5	10446.0	10562.5	10615.0	10312.0	10049.9	9799.3	9263.3	8657.4	8599.2	8010.8
42.5°	10574.2	10719.8	10766.5	10754.8	10475.2	10242.1	10102.3	9642.0	9082.7	9030.3	8430.2
45°	10178.0	10143.1	10399.4	10539.2	10486.8	10364.5	10387.8	10096.5	9577.9	9525.5	8913.8
47.5°	9647.9	9601.3	9746.9	10090.6	10294.5	10411.1	10644.1	10568.4	10148.9	10102.3	9478.9
50°	8529.3	8593.4	9135.2	9595.4	9997.4	10399.4	10859.7	11075.2	10778.1	10731.5	10084.8
52.5°	7288.3	7352.4	7917.5	8977.9	9636.2	10312.0	11017.0	11582.1	11459.7	11407.3	10731.5
55°	6385.3	6525.1	7166.0	7935.0	9123.5	10038.2	11110.2	12100.6	12193.8	12147.2	11436.4
57.5°	5488.1	5593.0	6076.5	6758.2	8424.4	9560.5	11104.4	12584.2	12962.9	12916.2	12153.0
60°	4433.6	4567.6	4952.1	5686.2	7492.2	8989.5	10941.2	12962.9	13702.8	13667.8	12846.3
62.5°	3711.2	3751.9	4025.8	4660.8	6292.1	8267.1	10574.2	13166.8	14372.7	14349.4	13469.7
65°	2988.7	2994.6	3245.1	3775.2	5132.7	7369.9	9950.8	13091.0	14879.6	14891.3	13918.3
67.5°	2307.1	2336.2	2563.4	2965.4	4078.2	6204.7	9059.4	12578.3	14885.4	14914.6	13662.0
70°	1596.3	1619.6	1963.4	2353.7	3151.9	4946.3	7853.5	11220.9	13662.0	13685.3	12246.3
72.5°	1124.4	1136.1	1503.1	1881.8	2464.4	3728.6	5925.0	9280.8	11646.2	11663.7	10300.4
75°	838.9	850.6	1060.3	1427.4	1887.6	2580.9	4049.1	7107.7	9304.1	9304.1	8133.1
77.5°	594.3	600.1	687.5	984.6	1258.4	1742.0	2435.3	4655.0	6828.1	6839.7	5925.0
80°	402.0	407.8	448.6	664.2	786.5	943.8	1322.5	2441.1	4305.4	4322.9	3763.6
82.5°	209.7	221.4	250.5	337.9	396.2	524.3	681.6	1240.9	2382.8	2429.4	2260.5
85°	81.6	81.6	93.2	110.7	145.7	203.9	314.6	471.9	1077.8	1112.8	996.2
87.5°	29.1	29.1	35.0	35.0	40.8	46.6	52.4	69.9	122.3	122.3	116.5
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°	6338.7	6338.7	6338.7	6338.7	6338.7	6338.7	6338.7	6338.7	6338.7	6338.7	6338.7
2.5°	6280.4	6280.4	6251.3	6263.0	6257.1	6245.5	6233.8	6251.3	6233.8	6193.0	6187.2
5°	6292.1	6280.4	6233.8	6228.0	6210.5	6187.2	6158.1	6169.7	6140.6	6105.7	6099.8
7.5°	6297.9	6274.6	6210.5	6187.2	6152.3	6105.7	6059.0	6059.0	6018.3	5983.3	5977.5
10°	6286.3	6257.1	6169.7	6123.1	6059.0	5989.1	5925.0	5907.6	5861.0	5820.2	5820.2
12.5°	6292.1	6251.3	6140.6	6064.9	5977.5	5890.1	5808.5	5785.2	5744.4	5703.7	5697.8
15°	6327.0	6268.8	6129.0	6029.9	5901.7	5802.7	5715.3	5697.8	5662.9	5633.7	5633.7
17.5°	6362.0	6286.3	6111.5	5971.7	5814.4	5703.7	5622.1	5622.1	5598.8	5581.3	5581.3
20°	6379.5	6292.1	6076.5	5890.1	5709.5	5593.0	5517.2	5528.9	5523.1	5517.2	5517.2
22.5°	6420.3	6303.7	6047.4	5814.4	5598.8	5476.4	5406.5	5424.0	5418.2	5418.2	5424.0
25°	6484.3	6332.9	6024.1	5744.4	5493.9	5359.9	5284.2	5295.8	5295.8	5295.8	5295.8
27.5°	6571.7	6391.1	6018.3	5680.4	5389.1	5237.6	5144.4	5144.4	5121.1	5126.9	5132.7
30°	6705.7	6501.8	6029.9	5622.1	5278.4	5086.1	4975.4	4957.9	4952.1	4963.8	4969.6
32.5°	6868.9	6653.3	6099.8	5581.3	5161.8	4917.1	4777.3	4771.5	4754.0	4754.0	4754.0
35°	7072.8	6798.9	6163.9	5575.5	5045.3	4736.5	4585.1	4567.6	4526.8	4509.3	4509.3
37.5°	7334.9	7026.2	6239.6	5534.7	4946.3	4561.8	4381.2	4322.9	4276.3	4270.5	4270.5
40°	7655.4	7282.5	6350.3	5488.1	4841.4	4381.2	4142.3	4043.2	4049.1	4072.4	4072.4
42.5°	8034.1	7597.1	6490.2	5464.8	4689.9	4194.7	3862.6	3746.1	3786.9	3810.2	3816.0
45°	8476.8	7970.0	6647.5	5435.7	4550.1	3985.0	3565.5	3419.9	3437.3	3443.2	3449.0
47.5°	8989.5	8383.6	6810.6	5412.4	4392.8	3722.8	3239.3	3047.0	3041.2	3006.2	3017.9
50°	9525.5	8820.6	6979.6	5371.6	4200.5	3414.0	2895.5	2668.3	2621.7	2569.3	2575.1
52.5°	10096.5	9269.2	7136.9	5307.5	3961.7	3099.4	2569.3	2324.6	2231.4	2173.1	2184.8
55°	10725.7	9729.4	7288.3	5208.4	3711.2	2784.8	2278.0	2027.4	1910.9	1864.3	1870.1
57.5°	11302.4	10172.2	7399.0	5086.1	3437.3	2499.4	2021.6	1776.9	1701.2	1695.4	1701.2
60°	11861.7	10545.1	7445.6	4917.1	3157.7	2237.2	1782.8	1596.3	1543.9	1573.0	1578.8
62.5°	12333.6	10783.9	7422.3	4689.9	2872.2	1986.7	1590.5	1456.5	1421.5	1479.8	1485.6
65°	12607.5	10859.7	7259.2	4363.7	2563.4	1742.0	1409.9	1264.2	1246.8	1281.7	1299.2
67.5°	12246.3	10387.8	6816.4	3915.1	2219.7	1514.8	1235.1	1118.6	1089.5	1118.6	1118.6
70°	10853.8	9001.2	5767.7	3204.3	1841.0	1293.4	1072.0	990.4	967.1	990.4	984.6
72.5°	9042.0	7486.4	4544.3	2499.4	1450.7	1089.5	932.2	856.4	833.1	809.8	798.2
75°	7014.5	5686.2	3297.5	1835.2	1095.3	873.9	780.7	710.8	652.5	675.8	664.2
77.5°	5138.5	3990.8	2336.2	1270.1	786.5	675.8	611.7	559.3	518.5	565.1	559.3
80°	3309.2	2580.9	1561.4	850.6	541.8	471.9	448.6	419.5	460.3	600.1	611.7
82.5°	2021.6	1637.1	932.2	553.5	355.4	314.6	291.3	291.3	471.9	518.5	524.3
85°	903.0	868.1	506.9	285.5	198.1	180.6	163.1	209.7	192.3	139.8	145.7
87.5°	145.7	151.5	110.7	99.0	75.7	75.7	58.3	40.8	29.1	17.5	17.5
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)