

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: P842057

Luminaire Tested: **ARCH4-260-750-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842057
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: ARCH4-260-750-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39838 lumens
Efficiency: N/A
Efficacy: 153.7 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

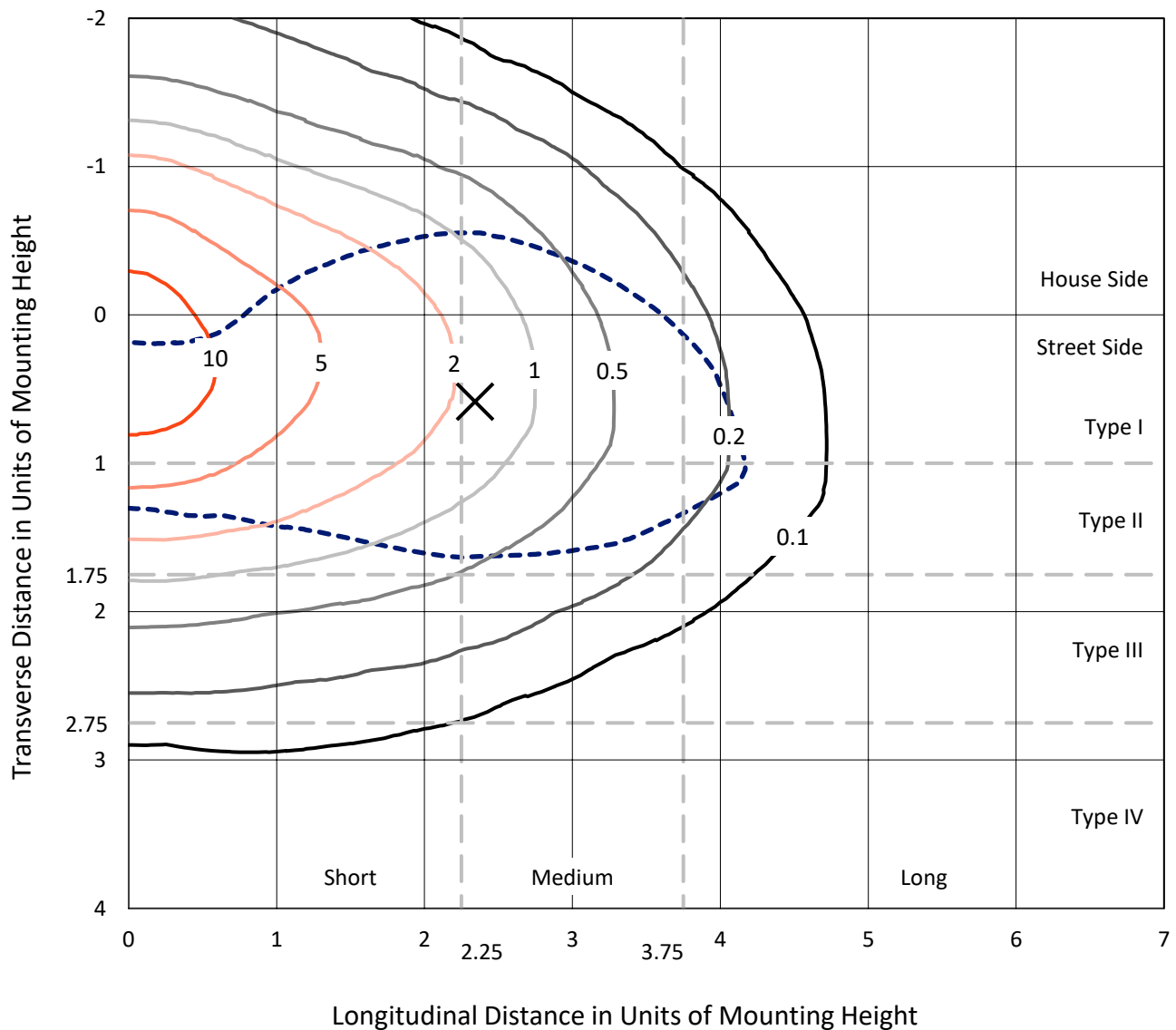
Input Watts (W): 259.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

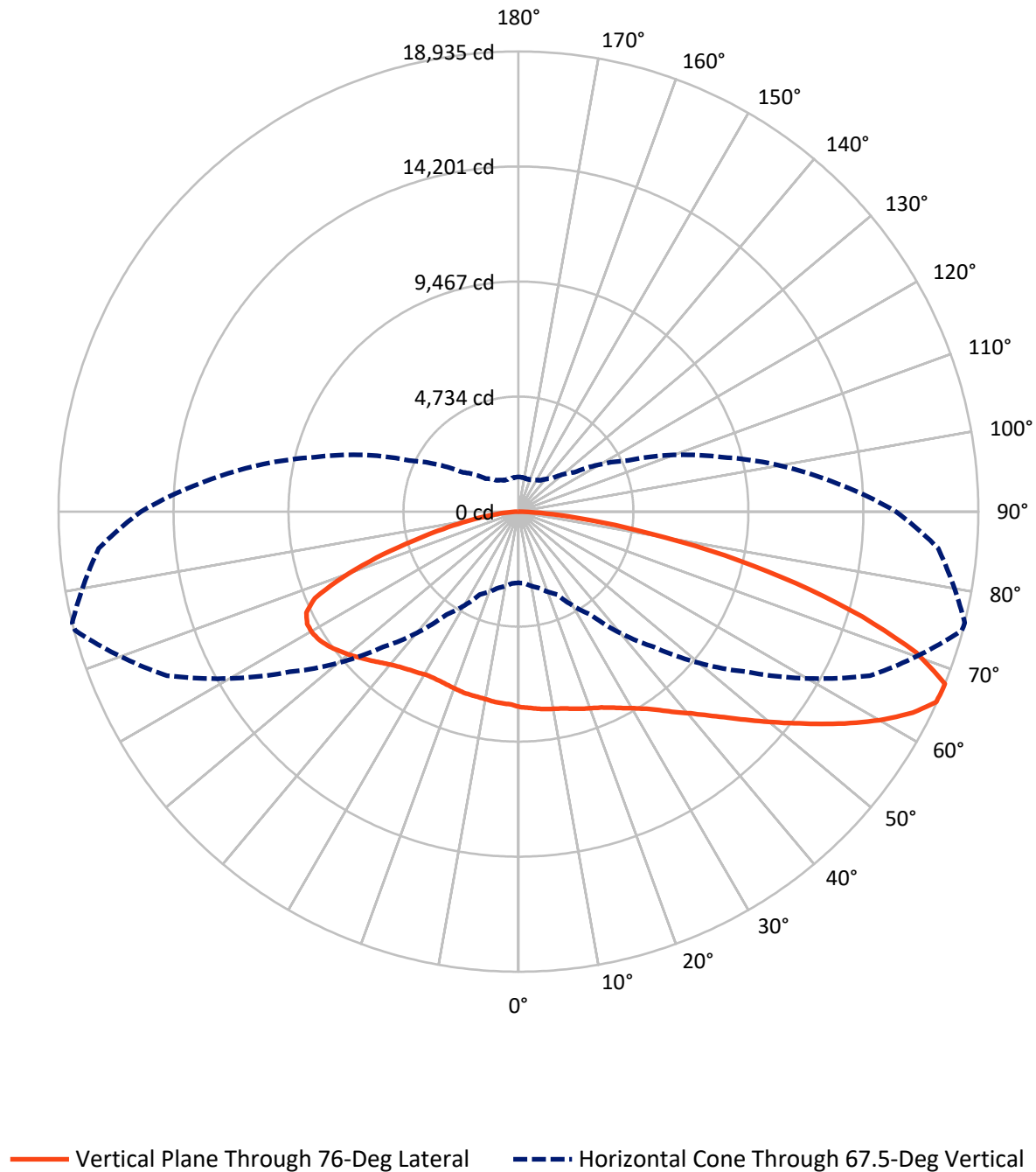
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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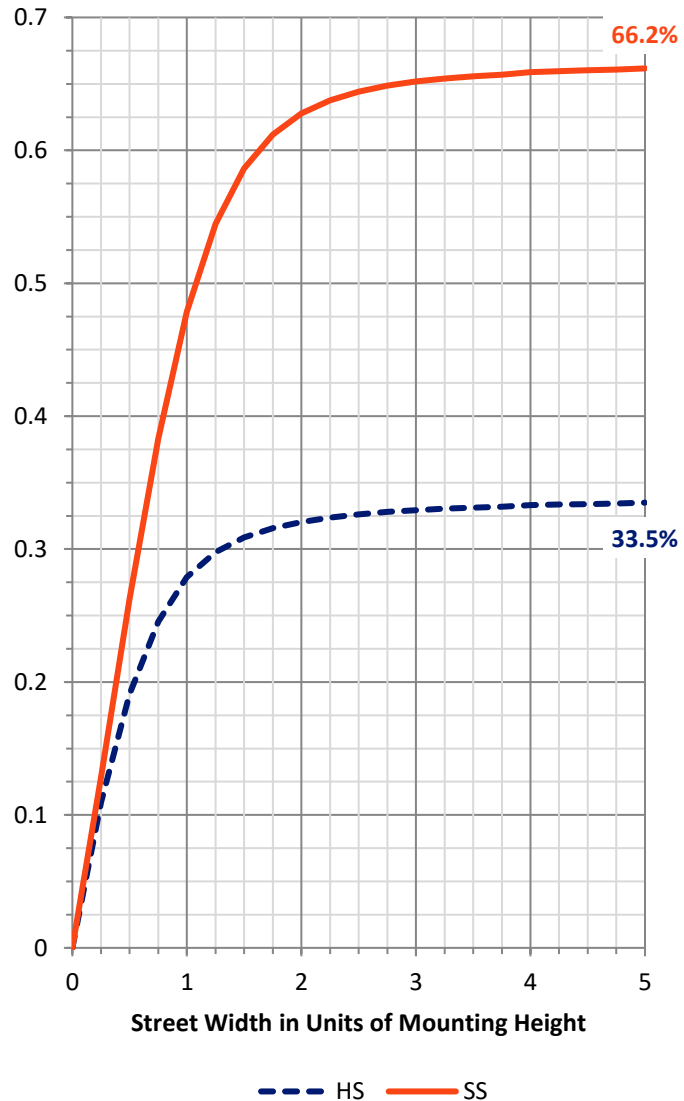
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13461.5	0.0	13461.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	26376.5	0.0	26376.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	39838.0	0.0	39838.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.0	1.9
10°-20°	2372.3	6.0
20°-30°	4030.6	10.1
30°-40°	5735.0	14.4
40°-50°	7243.1	18.2
50°-60°	7842.0	19.7
60°-70°	7293.9	18.3
70°-80°	3917.5	9.8
80°-90°	627.7	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°	39838.0	100.0
0°-180°	39838.0	100.0

Coefficient of Utilization



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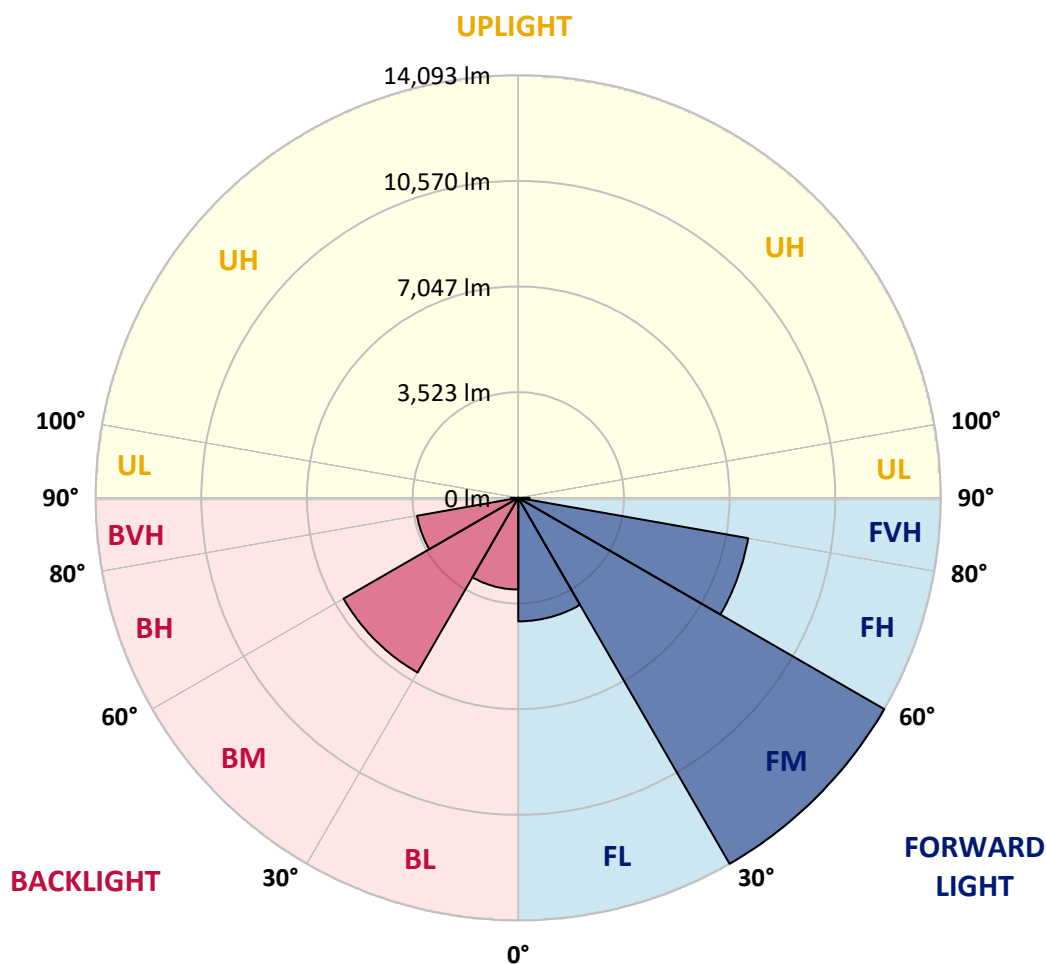
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4119.7	10.3			
FM	(30°-60°)	14093.2	35.4			
FH	(60°-80°)	7784.0	19.5			G4/12000
FVH	(80°-90°)	379.7	1.0			G3/500
BL	(0°-30°)	3059.2	7.7	B4/5000		
BM	(30°-60°)	6726.9	16.9	B4/8500		
BH	(60°-80°)	3427.4	8.6	B4/5000		G4/5000
BVH	(80°-90°)	248.0	0.6			G3/500
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°	8047.2	8047.2	8047.2	8047.2	8047.2	8047.2	8047.2	8047.2	8047.2	8047.2	8047.2
2.5°	8291.3	8276.5	8217.3	8224.7	8224.7	8217.3	8128.5	8091.6	8091.6	8084.2	8002.8
5°	8587.1	8564.9	8498.4	8483.6	8454.0	8417.0	8276.5	8195.1	8158.1	8150.7	8039.8
7.5°	8934.7	8905.2	8823.8	8779.4	8705.5	8609.3	8431.8	8306.1	8217.3	8209.9	8054.6
10°	9282.4	9252.8	9156.6	9075.3	8971.7	8816.4	8587.1	8402.2	8261.7	8246.9	8062.0
12.5°	9696.6	9667.0	9548.6	9445.1	9289.8	9082.7	8779.4	8527.9	8335.6	8313.5	8084.2
15°	10132.9	10088.6	9970.2	9851.9	9659.6	9393.3	9030.9	8698.1	8454.0	8417.0	8150.7
17.5°	10495.4	10436.2	10340.0	10221.7	10007.2	9696.6	9282.4	8868.2	8564.9	8535.3	8217.3
20°	10806.0	10761.6	10658.1	10547.1	10317.9	9977.6	9519.1	9038.3	8668.5	8631.5	8269.1
22.5°	11101.9	11042.7	10983.5	10902.2	10650.7	10273.5	9792.7	9245.4	8801.6	8757.2	8335.6
25°	11442.1	11375.5	11353.3	11309.0	11013.1	10628.5	10125.6	9504.3	8986.5	8934.7	8454.0
27.5°	11863.7	11789.7	11745.3	11745.3	11390.3	10990.9	10480.6	9807.5	9201.0	9156.6	8601.9
30°	12307.5	12218.7	12152.1	12152.1	11752.7	11353.3	10828.2	10110.8	9445.1	9393.3	8794.2
32.5°	12699.5	12610.7	12536.7	12529.4	12115.2	11715.8	11190.6	10443.6	9740.9	9674.4	9030.9
35°	13002.7	12921.4	12854.8	12869.6	12477.6	12085.6	11597.4	10887.4	10110.8	10036.8	9341.5
37.5°	13187.6	13158.0	13121.1	13172.8	12810.4	12440.6	12019.0	11316.4	10532.3	10465.8	9726.2
40°	13283.8	13261.6	13409.5	13476.1	13091.5	12758.6	12440.6	11760.1	10990.9	10917.0	10169.9
42.5°	13424.3	13609.2	13668.4	13653.6	13298.6	13002.7	12825.2	12240.9	11530.9	11464.3	10702.5
45°	12921.4	12877.0	13202.4	13379.9	13313.4	13158.0	13187.6	12817.8	12159.5	12093.0	11316.4
47.5°	12248.3	12189.1	12374.0	12810.4	13069.3	13217.2	13513.1	13416.9	12884.4	12825.2	12033.8
50°	10828.2	10909.6	11597.4	12181.7	12692.1	13202.4	13786.7	14060.4	13683.2	13624.0	12803.0
52.5°	9252.8	9334.1	10051.6	11397.7	12233.5	13091.5	13986.4	14703.9	14548.5	14482.0	13624.0
55°	8106.4	8283.9	9097.5	10073.8	11582.6	12743.8	14104.8	15362.1	15480.5	15421.3	14519.0
57.5°	6967.3	7100.5	7714.4	8579.7	10695.1	12137.3	14097.4	15976.0	16456.8	16397.6	15428.7
60°	5628.6	5798.7	6286.9	7218.8	9511.7	11412.5	13890.3	16456.8	17396.1	17351.7	16308.9
62.5°	4711.5	4763.2	5110.9	5917.1	7988.0	10495.4	13424.3	16715.7	18246.7	18217.1	17100.3
65°	3794.3	3801.7	4119.7	4792.8	6516.2	9356.3	12632.9	16619.5	18890.2	18905.0	17669.8
67.5°	2928.9	2965.9	3254.4	3764.7	5177.4	7877.1	11501.3	15968.6	18897.6	18934.6	17344.4
70°	2026.6	2056.2	2492.6	2988.1	4001.4	6279.5	9970.2	14245.3	17344.4	17373.9	15547.0
72.5°	1427.5	1442.3	1908.2	2389.0	3128.6	4733.6	7522.0	11782.3	14785.2	14807.4	13076.7
75°	1065.1	1079.9	1346.1	1812.1	2396.4	3276.6	5140.4	9023.5	11811.9	11811.9	10325.3
77.5°	754.4	761.8	872.8	1250.0	1597.6	2211.5	3091.7	5909.7	8668.5	8683.3	7522.0
80°	510.3	517.7	569.5	843.2	998.5	1198.2	1679.0	3099.1	5465.9	5488.1	4778.0
82.5°	266.3	281.1	318.0	429.0	502.9	665.7	865.4	1575.4	3025.1	3084.3	2869.8
85°	103.5	103.5	118.3	140.5	184.9	258.9	399.4	599.1	1368.3	1412.7	1264.8
87.5°	37.0	37.0	44.4	44.4	51.8	59.2	66.6	88.8	155.3	155.3	147.9
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°	8047.2	8047.2	8047.2	8047.2	8047.2	8047.2	8047.2	8047.2	8047.2	8047.2	8047.2
2.5°	7973.2	7973.2	7936.2	7951.0	7943.6	7928.8	7914.1	7936.2	7914.1	7862.3	7854.9
5°	7988.0	7973.2	7914.1	7906.7	7884.5	7854.9	7817.9	7832.7	7795.7	7751.3	7743.9
7.5°	7995.4	7965.8	7884.5	7854.9	7810.5	7751.3	7692.2	7692.2	7640.4	7596.0	7588.6
10°	7980.6	7943.6	7832.7	7773.5	7692.2	7603.4	7522.0	7499.9	7440.7	7388.9	7388.9
12.5°	7988.0	7936.2	7795.7	7699.6	7588.6	7477.7	7374.1	7344.5	7292.8	7241.0	7233.6
15°	8032.4	7958.4	7780.9	7655.2	7492.5	7366.7	7255.8	7233.6	7189.2	7152.2	7152.2
17.5°	8076.8	7980.6	7758.7	7581.2	7381.5	7241.0	7137.4	7137.4	7107.9	7085.7	7085.7
20°	8099.0	7988.0	7714.4	7477.7	7248.4	7100.5	7004.3	7019.1	7011.7	7004.3	7004.3
22.5°	8150.7	8002.8	7677.4	7381.5	7107.9	6952.5	6863.8	6886.0	6878.6	6878.6	6886.0
25°	8232.1	8039.8	7647.8	7292.8	6974.7	6804.6	6708.5	6723.2	6723.2	6723.2	6723.2
27.5°	8343.0	8113.8	7640.4	7211.4	6841.6	6649.3	6530.9	6530.9	6501.4	6508.8	6516.2
30°	8513.2	8254.3	7655.2	7137.4	6701.1	6457.0	6316.5	6294.3	6286.9	6301.7	6309.1
32.5°	8720.3	8446.6	7743.9	7085.7	6553.1	6242.5	6065.0	6057.6	6035.4	6035.4	6035.4
35°	8979.1	8631.5	7825.3	7078.3	6405.2	6013.2	5820.9	5798.7	5746.9	5724.7	5724.7
37.5°	9312.0	8920.0	7921.5	7026.5	6279.5	5791.3	5562.0	5488.1	5428.9	5421.5	5421.5
40°	9718.8	9245.4	8062.0	6967.3	6146.3	5562.0	5258.8	5133.0	5140.4	5170.0	5170.0
42.5°	10199.5	9644.8	8239.5	6937.7	5954.0	5325.3	4903.8	4755.8	4807.6	4837.2	4844.6
45°	10761.6	10118.2	8439.2	6900.8	5776.5	5059.1	4526.5	4341.6	4363.8	4371.2	4378.6
47.5°	11412.5	10643.3	8646.3	6871.2	5576.8	4726.2	4112.3	3868.3	3860.9	3816.5	3831.3
50°	12093.0	11198.0	8860.8	6819.4	5332.7	4334.2	3676.0	3387.5	3328.3	3261.8	3269.2
52.5°	12817.8	11767.5	9060.5	6738.0	5029.5	3934.8	3261.8	2951.1	2832.8	2758.8	2773.6
55°	13616.6	12351.8	9252.8	6612.3	4711.5	3535.4	2892.0	2573.9	2426.0	2366.8	2374.2
57.5°	14348.8	12914.0	9393.3	6457.0	4363.8	3173.0	2566.5	2255.9	2159.7	2152.3	2159.7
60°	15058.9	13387.3	9452.5	6242.5	4008.8	2840.2	2263.3	2026.6	1960.0	1997.0	2004.4
62.5°	15658.0	13690.6	9422.9	5954.0	3646.4	2522.1	2019.2	1849.1	1804.7	1878.7	1886.1
65°	16005.6	13786.7	9215.8	5539.8	3254.4	2211.5	1789.9	1605.0	1582.8	1627.2	1649.4
67.5°	15547.0	13187.6	8653.7	4970.3	2818.0	1923.0	1568.0	1420.1	1383.1	1420.1	1420.1
70°	13779.3	11427.3	7322.3	4068.0	2337.2	1642.0	1360.9	1257.4	1227.8	1257.4	1250.0
72.5°	11479.1	9504.3	5769.1	3173.0	1841.7	1383.1	1183.4	1087.3	1057.7	1028.1	1013.3
75°	8905.2	7218.8	4186.3	2329.8	1390.5	1109.4	991.1	902.4	828.4	858.0	843.2
77.5°	6523.5	5066.5	2965.9	1612.4	998.5	858.0	776.6	710.0	658.3	717.4	710.0
80°	4201.1	3276.6	1982.2	1079.9	687.9	599.1	569.5	532.5	584.3	761.8	776.6
82.5°	2566.5	2078.4	1183.4	702.6	451.2	399.4	369.8	369.8	599.1	658.3	665.7
85°	1146.4	1102.1	643.5	362.4	251.5	229.3	207.1	266.3	244.1	177.5	184.9
87.5°	184.9	192.3	140.5	125.7	96.2	96.2	74.0	51.8	37.0	22.2	22.2
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)