

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: P842030

Luminaire Tested: **ARCH4-260-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842030
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: ARCH4-260-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37941 lumens
Efficiency: N/A
Efficacy: 146.4 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): 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

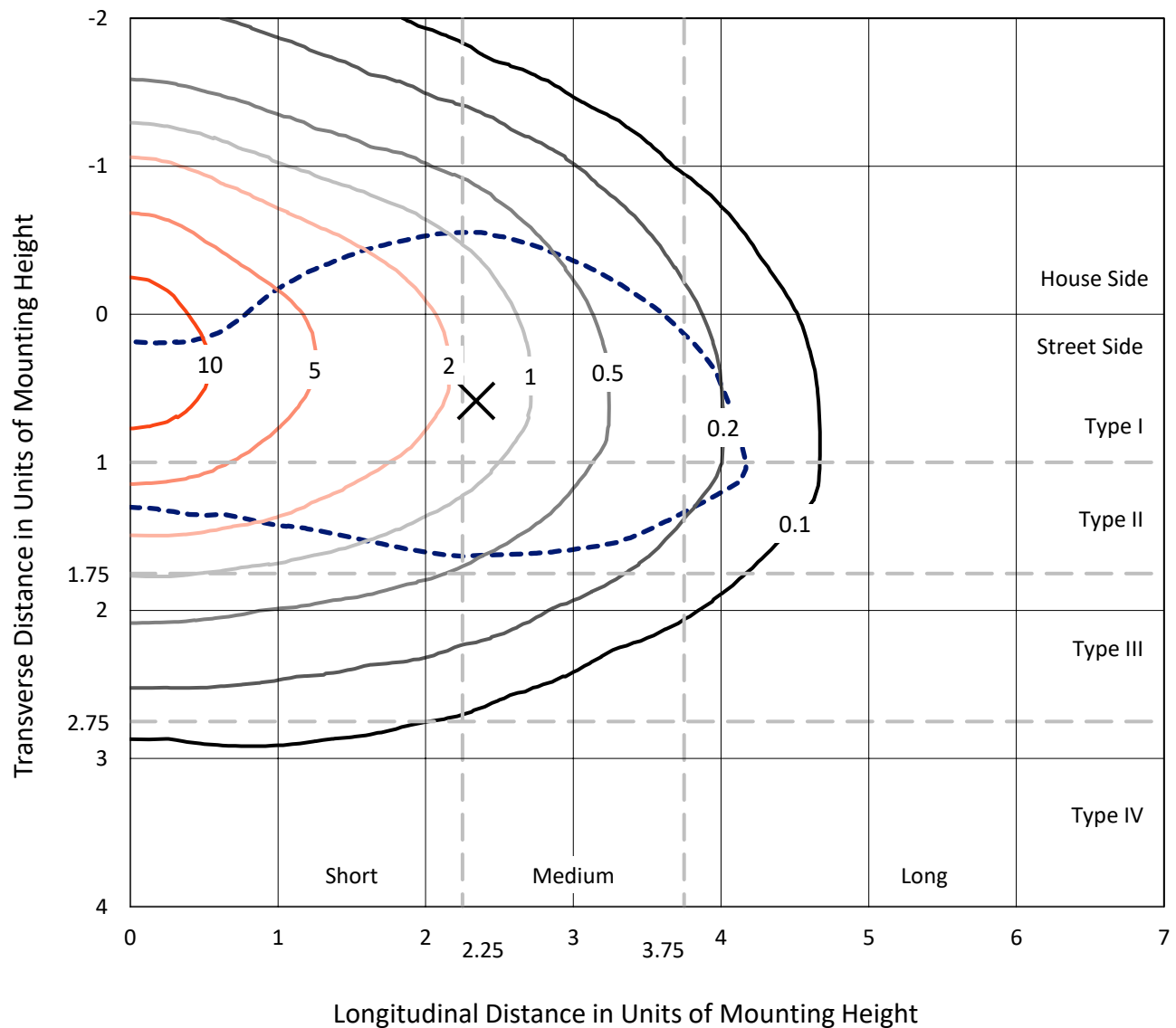


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Iso-Footcandle Lines of Horizontal Illumination

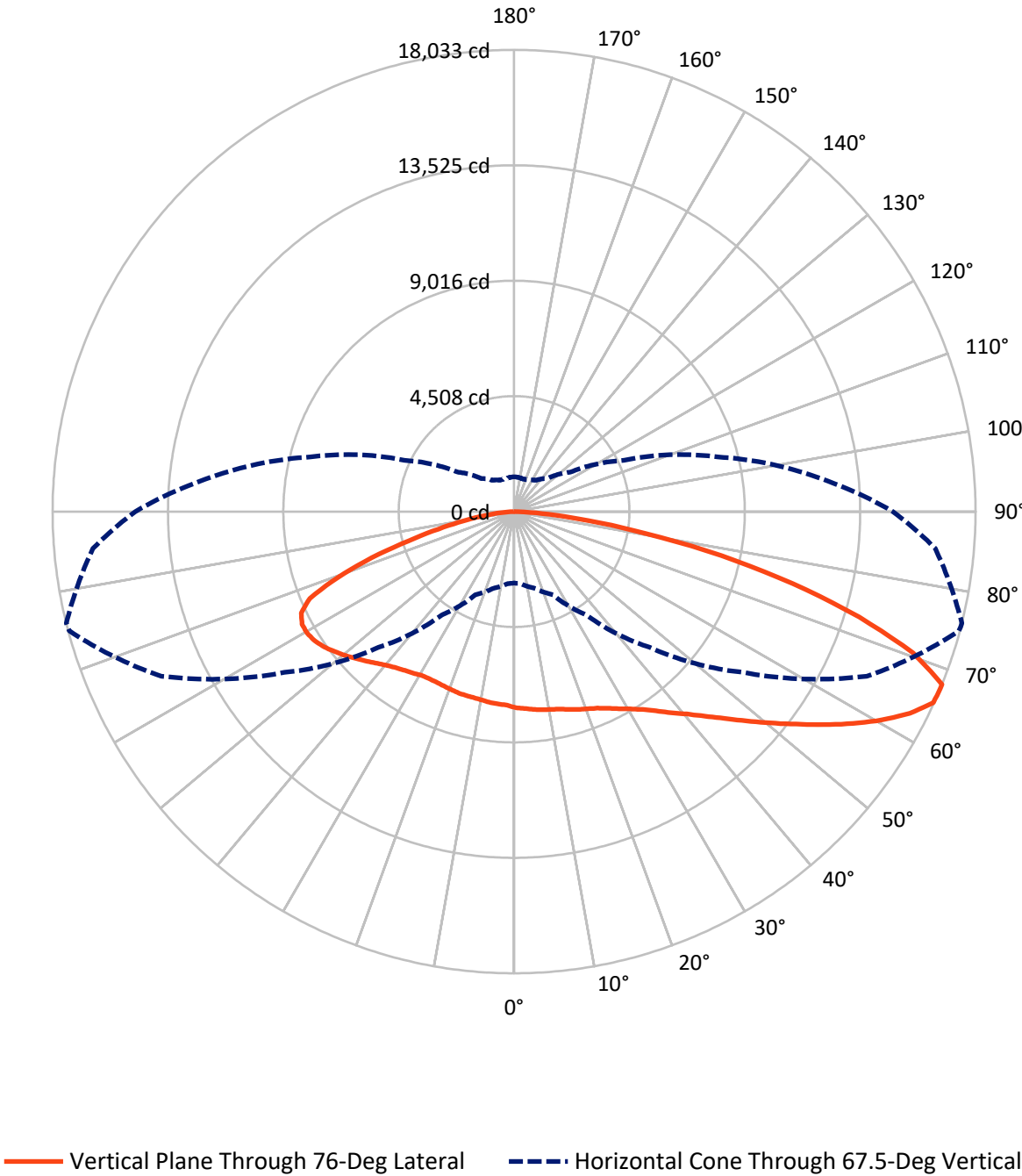
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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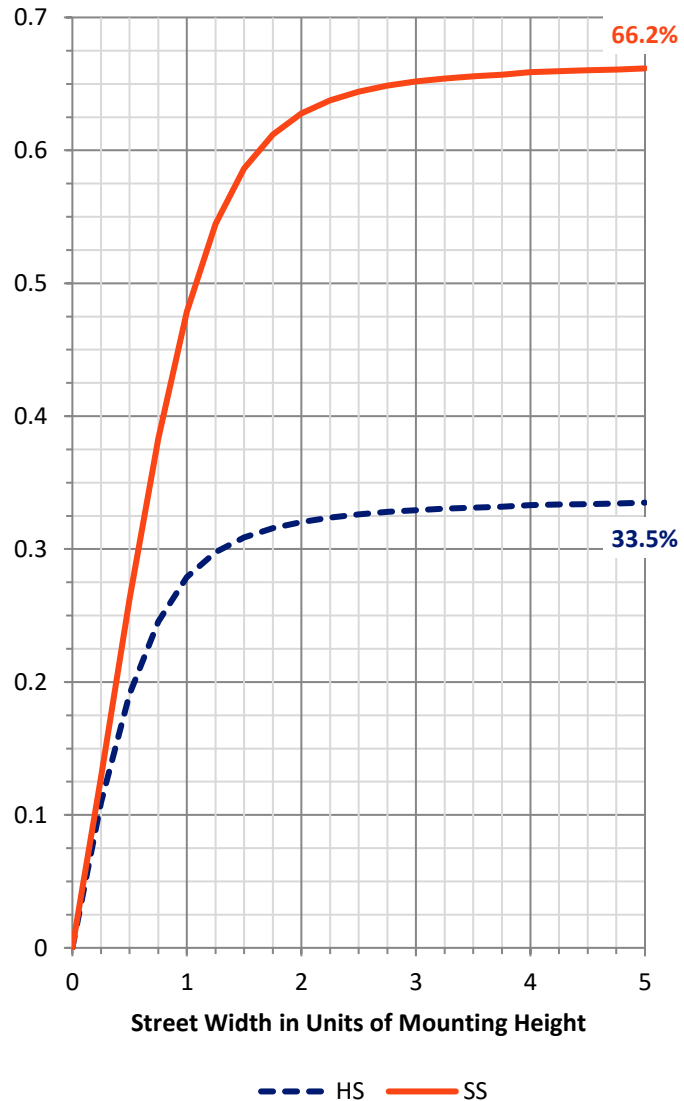
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12820.5	0.0	12820.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	25120.6	0.0	25120.6
	% Fixture	66.2	0.0	66.2
Total	Lumens	37941.0	0.0	37941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	739.0	1.9
10°-20°	2259.3	6.0
20°-30°	3838.7	10.1
30°-40°	5461.9	14.4
40°-50°	6898.2	18.2
50°-60°	7468.6	19.7
60°-70°	6946.6	18.3
70°-80°	3730.9	9.8
80°-90°	597.8	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°	37941.0	100.0
0°-180°	37941.0	100.0

Coefficient of Utilization



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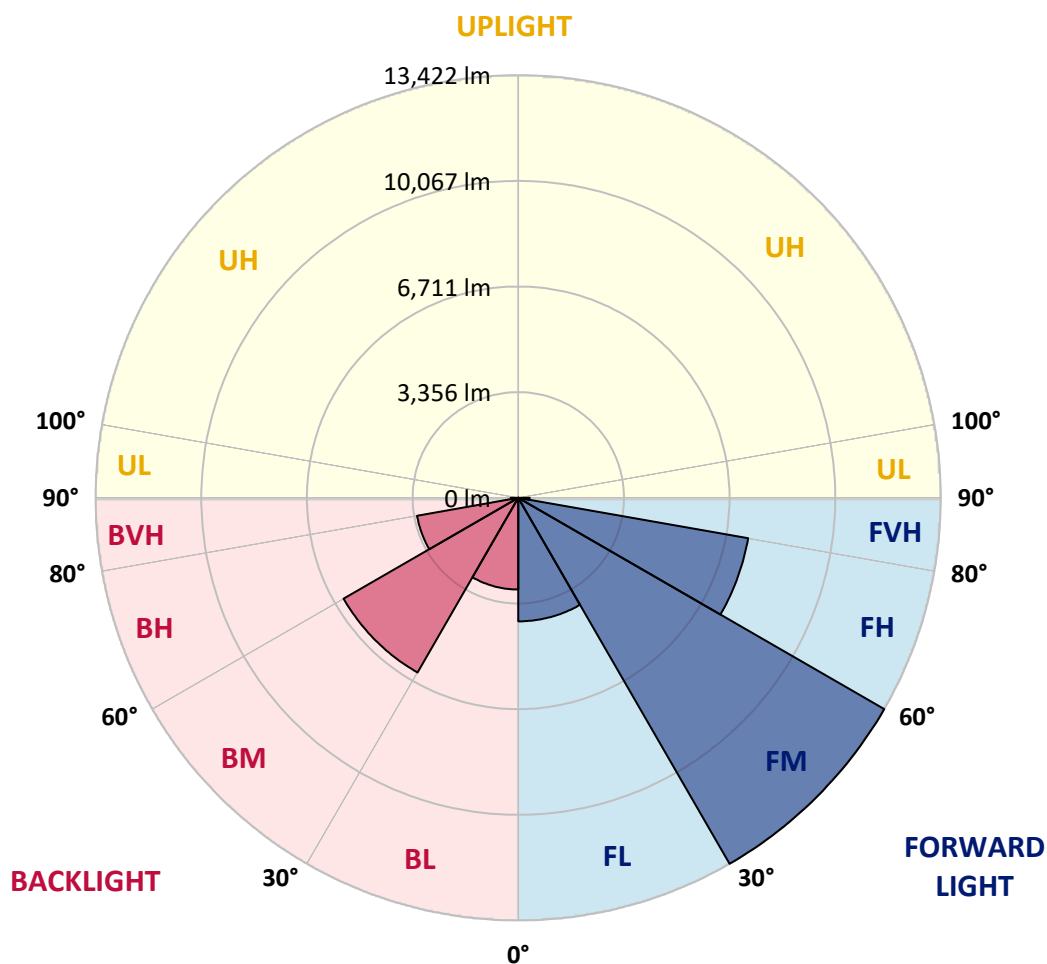
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3923.5	10.3			
FM	(30°-60°)	13422.1	35.4			
FH	(60°-80°)	7413.3	19.5			G3/7500
FVH	(80°-90°)	361.6	1.0			G3/500
BL	(0°-30°)	2913.5	7.7	B4/5000		
BM	(30°-60°)	6406.6	16.9	B4/8500		
BH	(60°-80°)	3264.2	8.6	B4/5000		G4/5000
BVH	(80°-90°)	236.2	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°	7664.0	7664.0	7664.0	7664.0	7664.0	7664.0	7664.0	7664.0	7664.0	7664.0	7664.0
2.5°	7896.5	7882.4	7826.0	7833.1	7833.1	7826.0	7741.5	7706.3	7706.3	7699.2	7621.7
5°	8178.2	8157.1	8093.7	8079.6	8051.4	8016.2	7882.4	7804.9	7769.7	7762.6	7657.0
7.5°	8509.3	8481.1	8403.6	8361.4	8290.9	8199.4	8030.3	7910.5	7826.0	7819.0	7671.0
10°	8840.4	8812.2	8720.6	8643.1	8544.5	8396.6	8178.2	8002.1	7868.3	7854.2	7678.1
12.5°	9234.8	9206.7	9094.0	8995.3	8847.4	8650.2	8361.4	8121.9	7938.7	7917.6	7699.2
15°	9650.4	9608.2	9495.5	9382.8	9199.6	8946.0	8600.9	8283.9	8051.4	8016.2	7762.6
17.5°	9995.6	9939.2	9847.7	9735.0	9530.7	9234.8	8840.4	8445.9	8157.1	8128.9	7826.0
20°	10291.5	10249.2	10150.6	10044.9	9826.5	9502.5	9065.8	8607.9	8255.7	8220.5	7875.3
22.5°	10573.2	10516.9	10460.5	10383.0	10143.5	9784.3	9326.4	8805.1	8382.5	8340.2	7938.7
25°	10897.2	10833.9	10812.7	10770.5	10488.7	10122.4	9643.4	9051.7	8558.6	8509.3	8051.4
27.5°	11298.8	11228.3	11186.1	11186.1	10847.9	10467.6	9981.5	9340.5	8762.9	8720.6	8192.3
30°	11721.4	11636.9	11573.5	11573.5	11193.1	10812.7	10312.6	9629.3	8995.3	8946.0	8375.5
32.5°	12094.7	12010.2	11939.8	11932.7	11538.3	11157.9	10657.7	9946.3	9277.1	9213.7	8600.9
35°	12383.6	12306.1	12242.7	12256.8	11883.4	11510.1	11045.2	10368.9	9629.3	9558.9	8896.7
37.5°	12559.7	12531.5	12496.3	12545.6	12200.4	11848.2	11446.7	10777.5	10030.8	9967.4	9263.0
40°	12651.2	12630.1	12771.0	12834.4	12468.1	12151.1	11848.2	11200.1	10467.6	10397.1	9685.7
42.5°	12785.1	12961.2	13017.5	13003.4	12665.3	12383.6	12214.5	11658.0	10981.8	10918.4	10192.8
45°	12306.1	12263.8	12573.7	12742.8	12679.4	12531.5	12559.7	12207.5	11580.5	11517.1	10777.5
47.5°	11665.1	11608.7	11784.8	12200.4	12447.0	12587.8	12869.6	12778.0	12270.9	12214.5	11460.8
50°	10312.6	10390.1	11045.2	11601.7	12087.7	12573.7	13130.2	13390.9	13031.6	12975.3	12193.4
52.5°	8812.2	8889.7	9573.0	10855.0	11651.0	12468.1	13320.4	14003.7	13855.8	13792.4	12975.3
55°	7720.4	7889.4	8664.3	9594.1	11031.1	12137.0	13433.1	14630.6	14743.3	14687.0	13827.6
57.5°	6635.6	6762.4	7347.0	8171.2	10185.8	11559.4	13426.1	15215.3	15673.2	15616.8	14694.0
60°	5360.6	5522.6	5987.5	6875.1	9058.7	10869.1	13228.8	15673.2	16567.8	16525.5	15532.3
62.5°	4487.1	4536.4	4867.5	5635.3	7607.6	9995.6	12785.1	15919.7	17377.8	17349.7	16286.0
65°	3613.6	3620.7	3923.6	4564.6	6205.9	8910.8	12031.4	15828.1	17990.7	18004.8	16828.4
67.5°	2789.5	2824.7	3099.4	3585.5	4930.9	7502.0	10953.6	15208.2	17997.7	18032.9	16518.5
70°	1930.1	1958.3	2373.9	2845.8	3810.9	5980.5	9495.5	13567.0	16518.5	16546.6	14806.7
72.5°	1359.5	1373.6	1817.4	2275.2	2979.7	4508.2	7163.9	11221.3	14081.2	14102.3	12454.0
75°	1014.4	1028.4	1282.0	1725.8	2282.3	3120.5	4895.7	8593.8	11249.5	11249.5	9833.6
77.5°	718.5	725.5	831.2	1190.5	1521.5	2106.2	2944.4	5628.2	8255.7	8269.8	7163.9
80°	486.0	493.1	542.4	803.0	951.0	1141.1	1599.0	2951.5	5205.6	5226.7	4550.5
82.5°	253.6	267.7	302.9	408.6	479.0	634.0	824.2	1500.4	2881.0	2937.4	2733.1
85°	98.6	98.6	112.7	133.8	176.1	246.5	380.4	570.6	1303.2	1345.4	1204.5
87.5°	35.2	35.2	42.3	42.3	49.3	56.4	63.4	84.5	147.9	147.9	140.9
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°	7664.0	7664.0	7664.0	7664.0	7664.0	7664.0	7664.0	7664.0	7664.0	7664.0	7664.0
2.5°	7593.6	7593.6	7558.3	7572.4	7565.4	7551.3	7537.2	7558.3	7537.2	7487.9	7480.9
5°	7607.6	7593.6	7537.2	7530.2	7509.0	7480.9	7445.6	7459.7	7424.5	7382.2	7375.2
7.5°	7614.7	7586.5	7509.0	7480.9	7438.6	7382.2	7325.9	7325.9	7276.6	7234.3	7227.3
10°	7600.6	7565.4	7459.7	7403.4	7325.9	7241.4	7163.9	7142.7	7086.4	7037.1	7037.1
12.5°	7607.6	7558.3	7424.5	7332.9	7227.3	7121.6	7023.0	6994.8	6945.5	6896.2	6889.1
15°	7649.9	7579.5	7410.4	7290.7	7135.7	7015.9	6910.3	6889.1	6846.9	6811.7	6811.7
17.5°	7692.2	7600.6	7389.3	7220.2	7030.0	6896.2	6797.6	6797.6	6769.4	6748.3	6748.3
20°	7713.3	7607.6	7347.0	7121.6	6903.2	6762.4	6670.8	6684.9	6677.8	6670.8	6670.8
22.5°	7762.6	7621.7	7311.8	7030.0	6769.4	6621.5	6536.9	6558.1	6551.0	6551.0	6558.1
25°	7840.1	7657.0	7283.6	6945.5	6642.6	6480.6	6389.0	6403.1	6403.1	6403.1	6403.1
27.5°	7945.8	7727.4	7276.6	6868.0	6515.8	6332.7	6220.0	6220.0	6191.8	6198.8	6205.9
30°	8107.8	7861.2	7290.7	6797.6	6382.0	6149.5	6015.7	5994.5	5987.5	6001.6	6008.6
32.5°	8305.0	8044.4	7375.2	6748.3	6241.1	5945.2	5776.2	5769.1	5748.0	5748.0	5748.0
35°	8551.6	8220.5	7452.7	6741.2	6100.2	5726.9	5543.7	5522.6	5473.3	5452.1	5452.1
37.5°	8868.5	8495.2	7544.2	6691.9	5980.5	5515.5	5297.2	5226.7	5170.4	5163.3	5163.3
40°	9256.0	8805.1	7678.1	6635.6	5853.7	5297.2	5008.4	4888.6	4895.7	4923.8	4923.8
42.5°	9713.8	9185.5	7847.1	6607.4	5670.5	5071.8	4670.2	4529.4	4578.7	4606.9	4613.9
45°	10249.2	9636.4	8037.3	6572.2	5501.5	4818.2	4311.0	4134.9	4156.0	4163.1	4170.1
47.5°	10869.1	10136.5	8234.6	6544.0	5311.3	4501.2	3916.5	3684.1	3677.0	3634.8	3648.9
50°	11517.1	10664.8	8438.9	6494.7	5078.8	4127.9	3500.9	3226.2	3169.9	3106.5	3113.5
52.5°	12207.5	11207.2	8629.0	6417.2	4790.0	3747.5	3106.5	2810.6	2697.9	2627.5	2641.5
55°	12968.2	11763.7	8812.2	6297.4	4487.1	3367.1	2754.2	2451.4	2310.5	2254.1	2261.2
57.5°	13665.6	12299.0	8946.0	6149.5	4156.0	3021.9	2444.3	2148.5	2056.9	2049.8	2056.9
60°	14341.8	12749.8	9002.4	5945.2	3817.9	2704.9	2155.5	1930.1	1866.7	1901.9	1909.0
62.5°	14912.4	13038.7	8974.2	5670.5	3472.7	2402.0	1923.0	1761.0	1718.8	1789.2	1796.2
65°	15243.5	13130.2	8777.0	5276.0	3099.4	2106.2	1704.7	1528.6	1507.4	1549.7	1570.8
67.5°	14806.7	12559.7	8241.6	4733.6	2683.8	1831.5	1493.4	1352.5	1317.2	1352.5	1352.5
70°	13123.2	10883.2	6973.7	3874.3	2225.9	1563.8	1296.1	1197.5	1169.3	1197.5	1190.5
72.5°	10932.5	9051.7	5494.4	3021.9	1754.0	1317.2	1127.1	1035.5	1007.3	979.1	965.0
75°	8481.1	6875.1	3987.0	2218.9	1324.3	1056.6	943.9	859.4	788.9	817.1	803.0
77.5°	6212.9	4825.2	2824.7	1535.6	951.0	817.1	739.6	676.2	626.9	683.3	676.2
80°	4001.1	3120.5	1887.8	1028.4	655.1	570.6	542.4	507.2	556.5	725.5	739.6
82.5°	2444.3	1979.4	1127.1	669.2	429.7	380.4	352.2	352.2	570.6	626.9	634.0
85°	1091.8	1049.6	612.8	345.2	239.5	218.4	197.2	253.6	232.5	169.1	176.1
87.5°	176.1	183.1	133.8	119.7	91.6	91.6	70.4	49.3	35.2	21.1	21.1
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)