

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: P841904

Luminaire Tested: **ARCH4-240-740-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841904
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: ARCH4-240-740-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37651 lumens
Efficiency: N/A
Efficacy: 156.7 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): 240.2
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

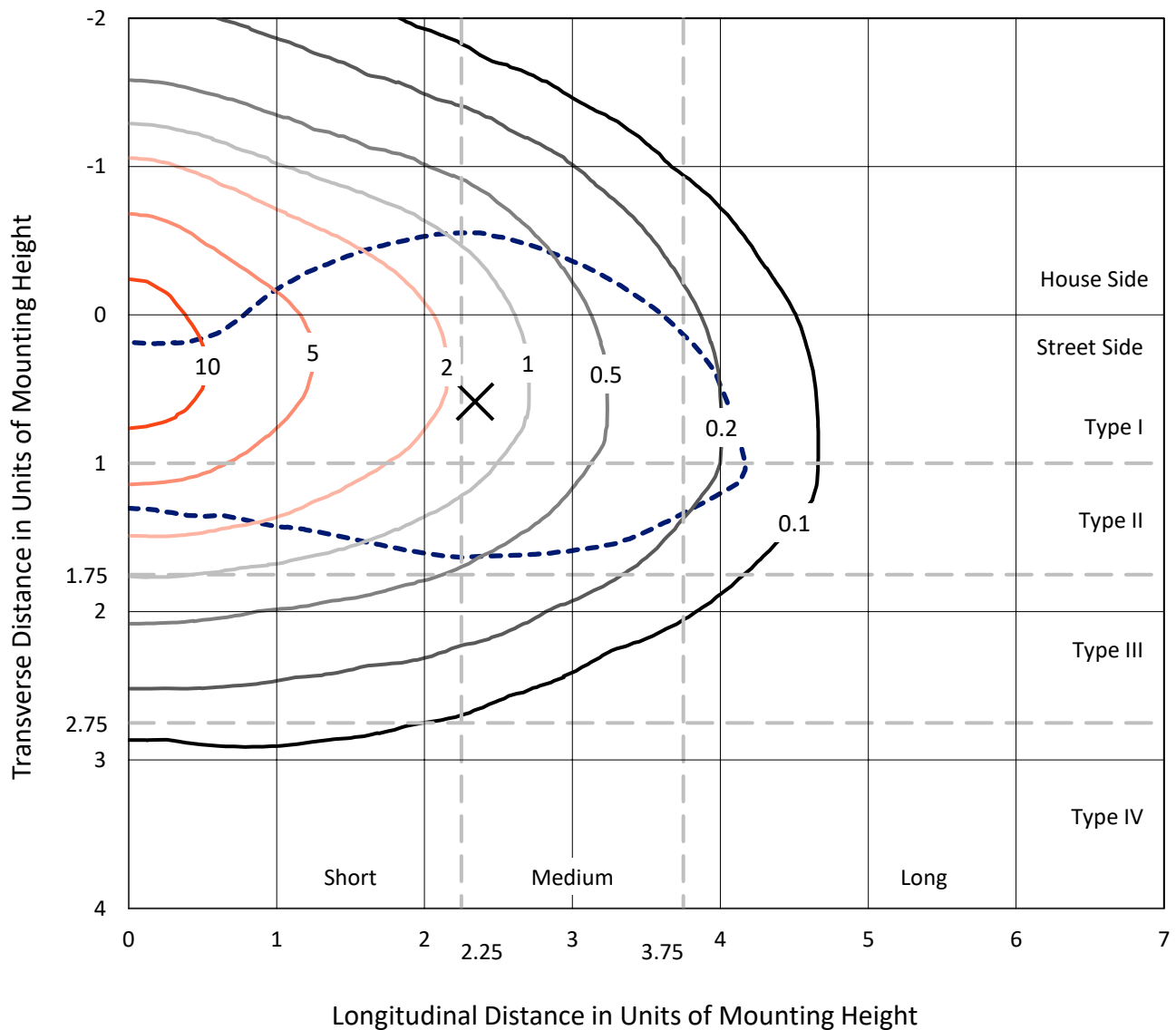


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Iso-Footcandle Lines of Horizontal Illumination

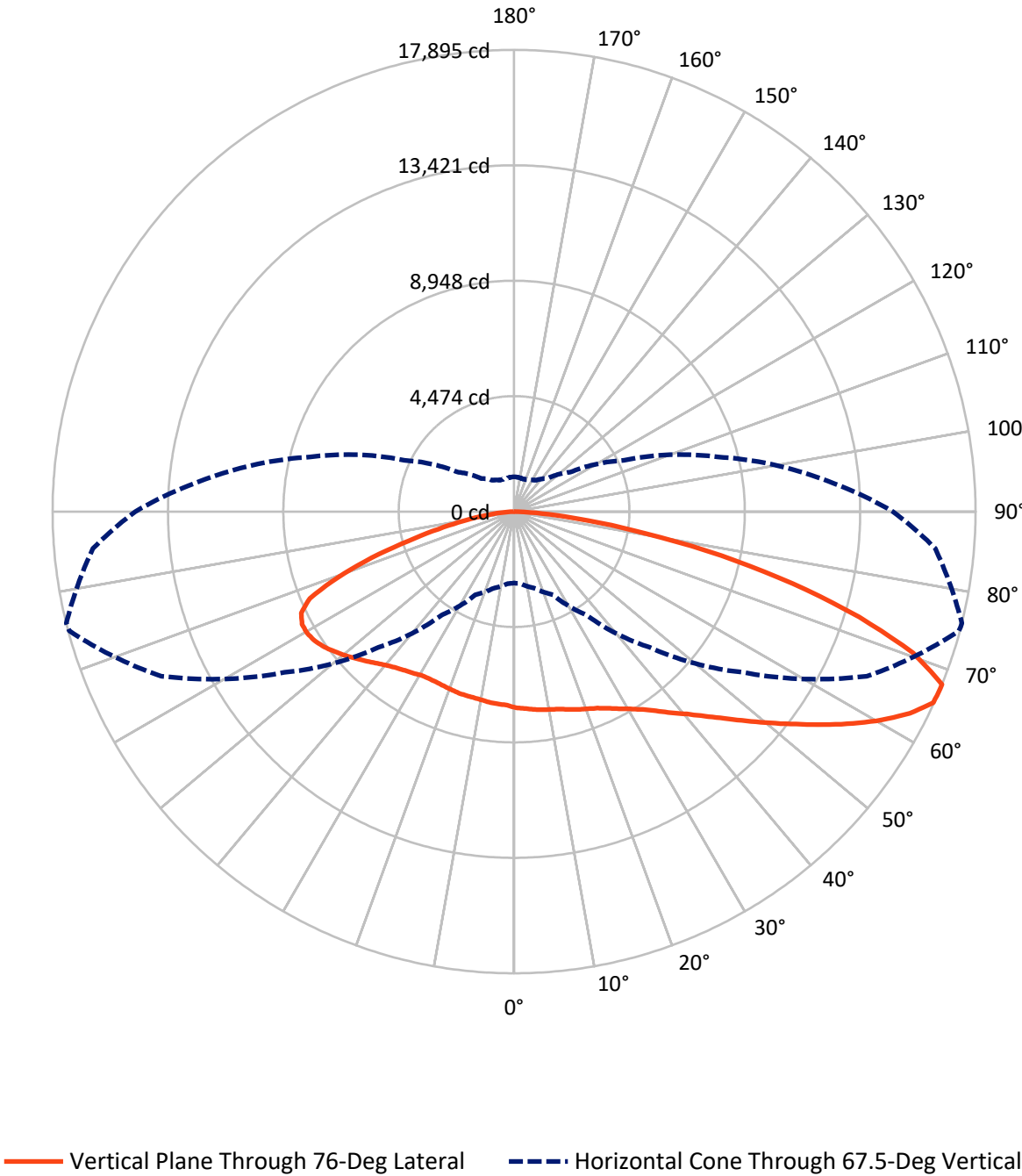
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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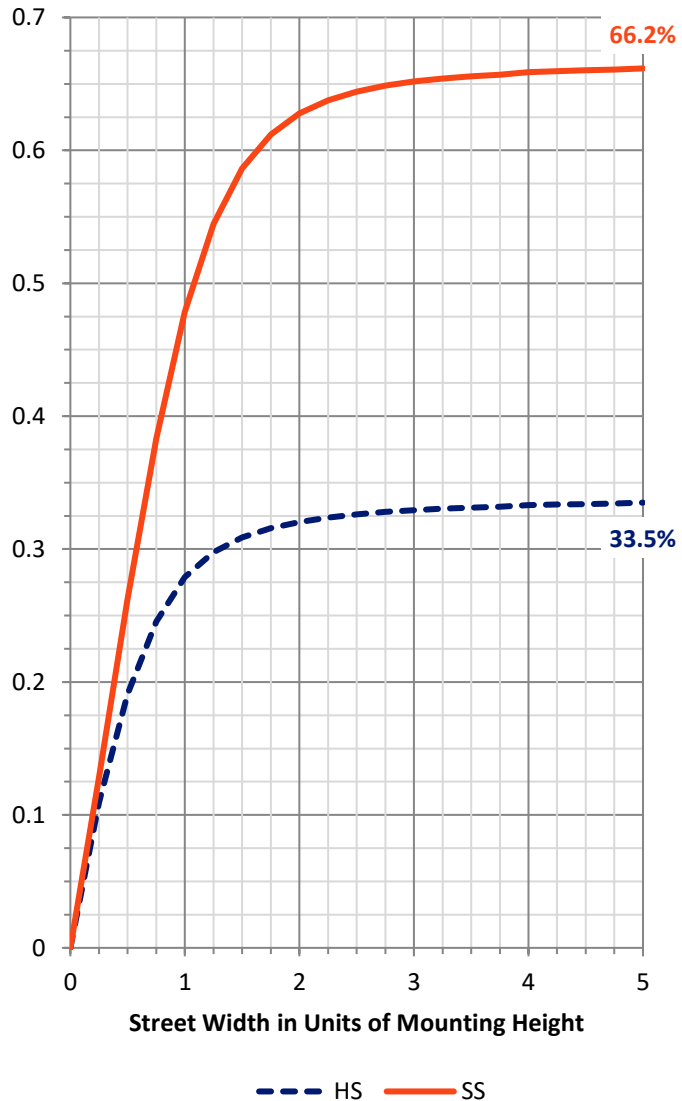
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12722.5	0.0	12722.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	24928.5	0.0	24928.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	37651.0	0.0	37651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.4	1.9
10°-20°	2242.1	6.0
20°-30°	3809.3	10.1
30°-40°	5420.2	14.4
40°-50°	6845.4	18.2
50°-60°	7411.5	19.7
60°-70°	6893.5	18.3
70°-80°	3702.4	9.8
80°-90°	593.3	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°	37651.0	100.0
0°-180°	37651.0	100.0

Coefficient of Utilization



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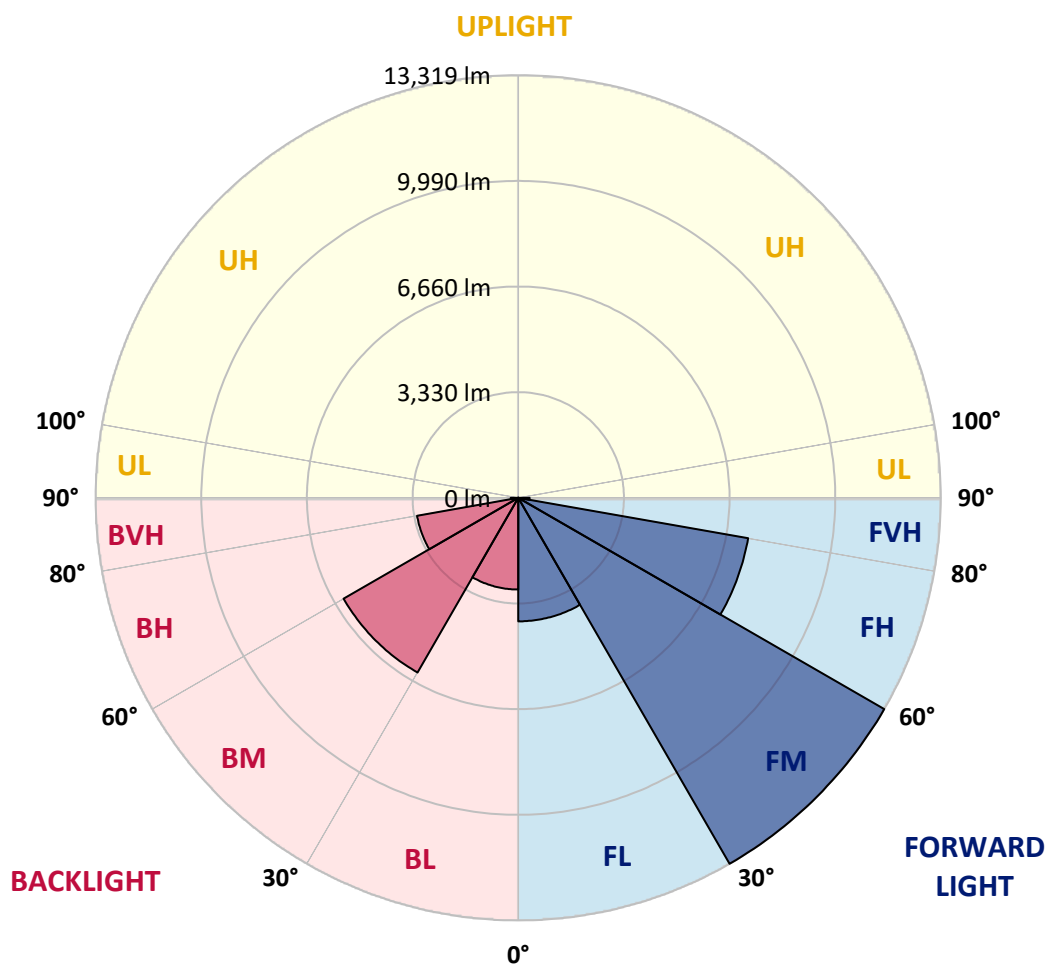
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3893.5	10.3			
FM	(30°-60°)	13319.5	35.4			
FH	(60°-80°)	7356.7	19.5			G3/7500
FVH	(80°-90°)	358.9	1.0			G3/500
BL	(0°-30°)	2891.2	7.7	B4/5000		
BM	(30°-60°)	6357.6	16.9	B4/8500		
BH	(60°-80°)	3239.3	8.6	B4/5000		G4/5000
BVH	(80°-90°)	234.4	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°	7605.4	7605.4	7605.4	7605.4	7605.4	7605.4	7605.4	7605.4	7605.4	7605.4	7605.4
2.5°	7836.1	7822.1	7766.2	7773.2	7773.2	7766.2	7682.3	7647.4	7647.4	7640.4	7563.5
5°	8115.7	8094.7	8031.8	8017.8	7989.9	7954.9	7822.1	7745.2	7710.3	7703.3	7598.4
7.5°	8444.3	8416.3	8339.4	8297.5	8227.6	8136.7	7968.9	7850.1	7766.2	7759.2	7612.4
10°	8772.8	8744.8	8654.0	8577.1	8479.2	8332.4	8115.7	7941.0	7808.1	7794.2	7619.4
12.5°	9164.3	9136.3	9024.4	8926.6	8779.8	8584.1	8297.5	8059.8	7878.0	7857.1	7640.4
15°	9576.7	9534.7	9422.9	9311.0	9129.3	8877.6	8535.1	8220.6	7989.9	7954.9	7703.3
17.5°	9919.2	9863.3	9772.4	9660.6	9457.8	9164.3	8772.8	8381.3	8094.7	8066.8	7766.2
20°	10212.8	10170.8	10073.0	9968.1	9751.4	9429.9	8996.5	8542.1	8192.6	8157.7	7815.1
22.5°	10492.4	10436.5	10380.6	10303.7	10066.0	9709.5	9255.1	8737.8	8318.4	8276.5	7878.0
25°	10814.0	10751.0	10730.1	10688.1	10408.5	10045.0	9569.7	8982.5	8493.2	8444.3	7989.9
27.5°	11212.4	11142.5	11100.6	11100.6	10765.0	10387.5	9905.2	9269.1	8695.9	8654.0	8129.7
30°	11631.8	11547.9	11485.0	11485.0	11107.5	10730.1	10233.8	9555.7	8926.6	8877.6	8311.4
32.5°	12002.3	11918.4	11848.5	11841.5	11450.1	11072.6	10576.3	9870.3	9206.2	9143.3	8535.1
35°	12288.9	12212.0	12149.1	12163.1	11792.6	11422.1	10960.8	10289.7	9555.7	9485.8	8828.7
37.5°	12463.7	12435.7	12400.7	12449.7	12107.2	11757.6	11359.2	10695.1	9954.2	9891.2	9192.2
40°	12554.5	12533.6	12673.4	12736.3	12372.8	12058.2	11757.6	11114.5	10387.5	10317.6	9611.6
42.5°	12687.3	12862.1	12918.0	12904.0	12568.5	12288.9	12121.1	11568.9	10897.8	10834.9	10114.9
45°	12212.0	12170.1	12477.6	12645.4	12582.5	12435.7	12463.7	12114.1	11492.0	11429.1	10695.1
47.5°	11575.9	11520.0	11694.7	12107.2	12351.8	12491.6	12771.2	12680.4	12177.1	12121.1	11373.2
50°	10233.8	10310.7	10960.8	11513.0	11995.3	12477.6	13029.9	13288.5	12932.0	12876.1	12100.2
52.5°	8744.8	8821.7	9499.8	10772.0	11561.9	12372.8	13218.6	13896.7	13749.9	13687.0	12876.1
55°	7661.3	7829.1	8598.0	9520.8	10946.8	12044.2	13330.5	14518.8	14630.6	14574.7	13721.9
57.5°	6584.8	6710.7	7290.9	8108.7	10107.9	11471.0	13323.5	15099.0	15553.4	15497.4	14581.7
60°	5319.6	5480.4	5941.7	6822.5	8989.5	10786.0	13127.7	15553.4	16441.1	16399.2	15413.6
62.5°	4452.8	4501.7	4830.3	5592.2	7549.5	9919.2	12687.3	15798.0	17245.0	17217.0	16161.5
65°	3586.0	3593.0	3893.6	4529.7	6158.4	8842.7	11939.4	15707.1	17853.2	17867.1	16699.8
67.5°	2768.1	2803.1	3075.7	3558.0	4893.2	7444.6	10869.9	15092.0	17860.2	17895.1	16392.2
70°	1915.3	1943.3	2355.7	2824.1	3781.7	5934.7	9422.9	13463.3	16392.2	16420.2	14693.6
72.5°	1349.1	1363.1	1803.5	2257.9	2956.9	4473.8	7109.1	11135.5	13973.6	13994.5	12358.8
75°	1006.6	1020.6	1272.2	1712.6	2264.8	3096.7	4858.2	8528.1	11163.5	11163.5	9758.4
77.5°	713.0	720.0	824.9	1181.4	1509.9	2090.1	2921.9	5585.2	8192.6	8206.6	7109.1
80°	482.3	489.3	538.3	796.9	943.7	1132.4	1586.8	2928.9	5165.8	5186.8	4515.7
82.5°	251.6	265.6	300.6	405.4	475.3	629.1	817.9	1488.9	2859.0	2914.9	2712.2
85°	97.9	97.9	111.8	132.8	174.8	244.7	377.5	566.2	1293.2	1335.1	1195.3
87.5°	35.0	35.0	41.9	41.9	48.9	55.9	62.9	83.9	146.8	146.8	139.8
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°	7605.4	7605.4	7605.4	7605.4	7605.4	7605.4	7605.4	7605.4	7605.4	7605.4	7605.4
2.5°	7535.5	7535.5	7500.6	7514.5	7507.6	7493.6	7479.6	7500.6	7479.6	7430.7	7423.7
5°	7549.5	7535.5	7479.6	7472.6	7451.6	7423.7	7388.7	7402.7	7367.7	7325.8	7318.8
7.5°	7556.5	7528.5	7451.6	7423.7	7381.7	7325.8	7269.9	7269.9	7221.0	7179.0	7172.0
10°	7542.5	7507.6	7402.7	7346.8	7269.9	7186.0	7109.1	7088.1	7032.2	6983.3	6983.3
12.5°	7549.5	7500.6	7367.7	7276.9	7172.0	7067.2	6969.3	6941.3	6892.4	6843.5	6836.5
15°	7591.4	7521.5	7353.8	7234.9	7081.1	6962.3	6857.5	6836.5	6794.5	6759.6	6759.6
17.5°	7633.4	7542.5	7332.8	7165.0	6976.3	6843.5	6745.6	6745.6	6717.7	6696.7	6696.7
20°	7654.4	7549.5	7290.9	7067.2	6850.5	6710.7	6619.8	6633.8	6626.8	6619.8	6619.8
22.5°	7703.3	7563.5	7255.9	6976.3	6717.7	6570.9	6487.0	6507.9	6501.0	6501.0	6507.9
25°	7780.2	7598.4	7227.9	6892.4	6591.8	6431.1	6340.2	6354.2	6354.2	6354.2	6354.2
27.5°	7885.0	7668.3	7221.0	6815.5	6466.0	6284.3	6172.4	6172.4	6144.5	6151.4	6158.4
30°	8045.8	7801.1	7234.9	6745.6	6333.2	6102.5	5969.7	5948.7	5941.7	5955.7	5962.7
32.5°	8241.5	7982.9	7318.8	6696.7	6193.4	5899.8	5732.0	5725.0	5704.1	5704.1	5704.1
35°	8486.2	8157.7	7395.7	6689.7	6053.6	5683.1	5501.3	5480.4	5431.4	5410.5	5410.5
37.5°	8800.8	8430.3	7486.6	6640.8	5934.7	5473.4	5256.7	5186.8	5130.9	5123.9	5123.9
40°	9185.2	8737.8	7619.4	6584.8	5808.9	5256.7	4970.1	4851.3	4858.2	4886.2	4886.2
42.5°	9639.6	9115.3	7787.2	6556.9	5627.2	5033.0	4634.6	4494.7	4543.7	4571.6	4578.6
45°	10170.8	9562.7	7975.9	6521.9	5459.4	4781.3	4278.0	4103.3	4124.3	4131.3	4138.2
47.5°	10786.0	10059.0	8171.6	6494.0	5270.7	4466.8	3886.6	3655.9	3648.9	3607.0	3621.0
50°	11429.1	10583.3	8374.3	6445.0	5040.0	4096.3	3474.2	3201.5	3145.6	3082.7	3089.7
52.5°	12114.1	11121.5	8563.1	6368.1	4753.4	3718.8	3082.7	2789.1	2677.3	2607.4	2621.4
55°	12869.1	11673.8	8744.8	6249.3	4452.8	3341.4	2733.2	2432.6	2292.8	2236.9	2243.9
57.5°	13561.1	12205.0	8877.6	6102.5	4124.3	2998.8	2425.6	2132.0	2041.2	2034.2	2041.2
60°	14232.2	12652.4	8933.6	5899.8	3788.7	2684.3	2139.0	1915.3	1852.4	1887.4	1894.4
62.5°	14798.4	12939.0	8905.6	5627.2	3446.2	2383.7	1908.3	1747.6	1705.6	1775.5	1782.5
65°	15127.0	13029.9	8709.9	5235.7	3075.7	2090.1	1691.6	1516.9	1495.9	1537.9	1558.8
67.5°	14693.6	12463.7	8178.6	4697.5	2663.3	1817.5	1481.9	1342.1	1307.2	1342.1	1342.1
70°	13022.9	10800.0	6920.4	3844.7	2208.9	1551.8	1286.2	1188.3	1160.4	1188.3	1181.4
72.5°	10848.9	8982.5	5452.4	2998.8	1740.6	1307.2	1118.4	1027.6	999.6	971.6	957.7
75°	8416.3	6822.5	3956.5	2201.9	1314.2	1048.5	936.7	852.8	782.9	810.9	796.9
77.5°	6165.4	4788.3	2803.1	1523.9	943.7	810.9	734.0	671.1	622.1	678.1	671.1
80°	3970.5	3096.7	1873.4	1020.6	650.1	566.2	538.3	503.3	552.2	720.0	734.0
82.5°	2425.6	1964.3	1118.4	664.1	426.4	377.5	349.5	349.5	566.2	622.1	629.1
85°	1083.5	1041.6	608.2	342.5	237.7	216.7	195.7	251.6	230.7	167.8	174.8
87.5°	174.8	181.7	132.8	118.8	90.9	90.9	69.9	48.9	35.0	21.0	21.0
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)