

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: P842102

Luminaire Tested: **ARCH4-270-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842102
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: ARCH4-270-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38577 lumens
Efficiency: N/A
Efficacy: 143.4 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): 269
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



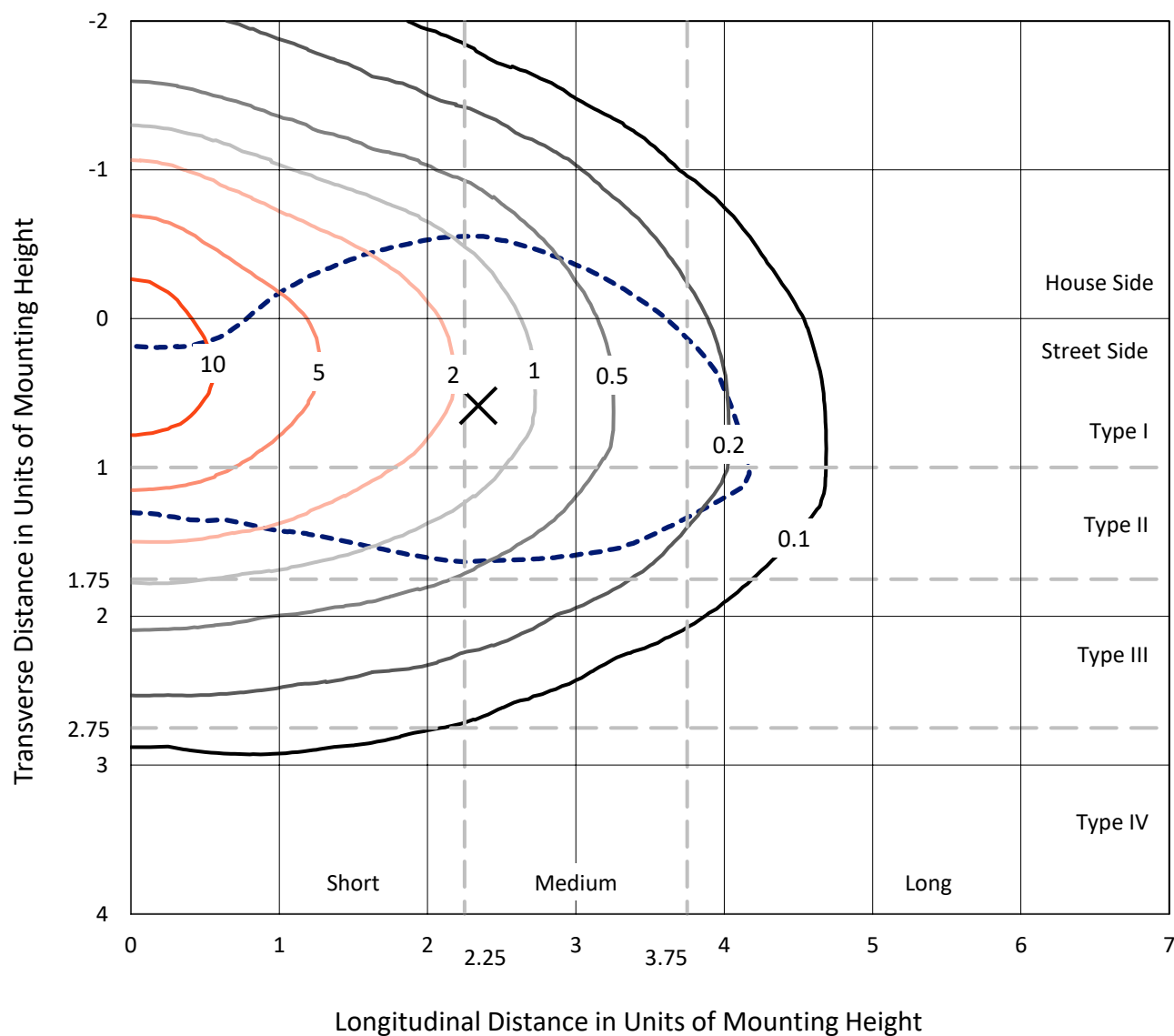
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

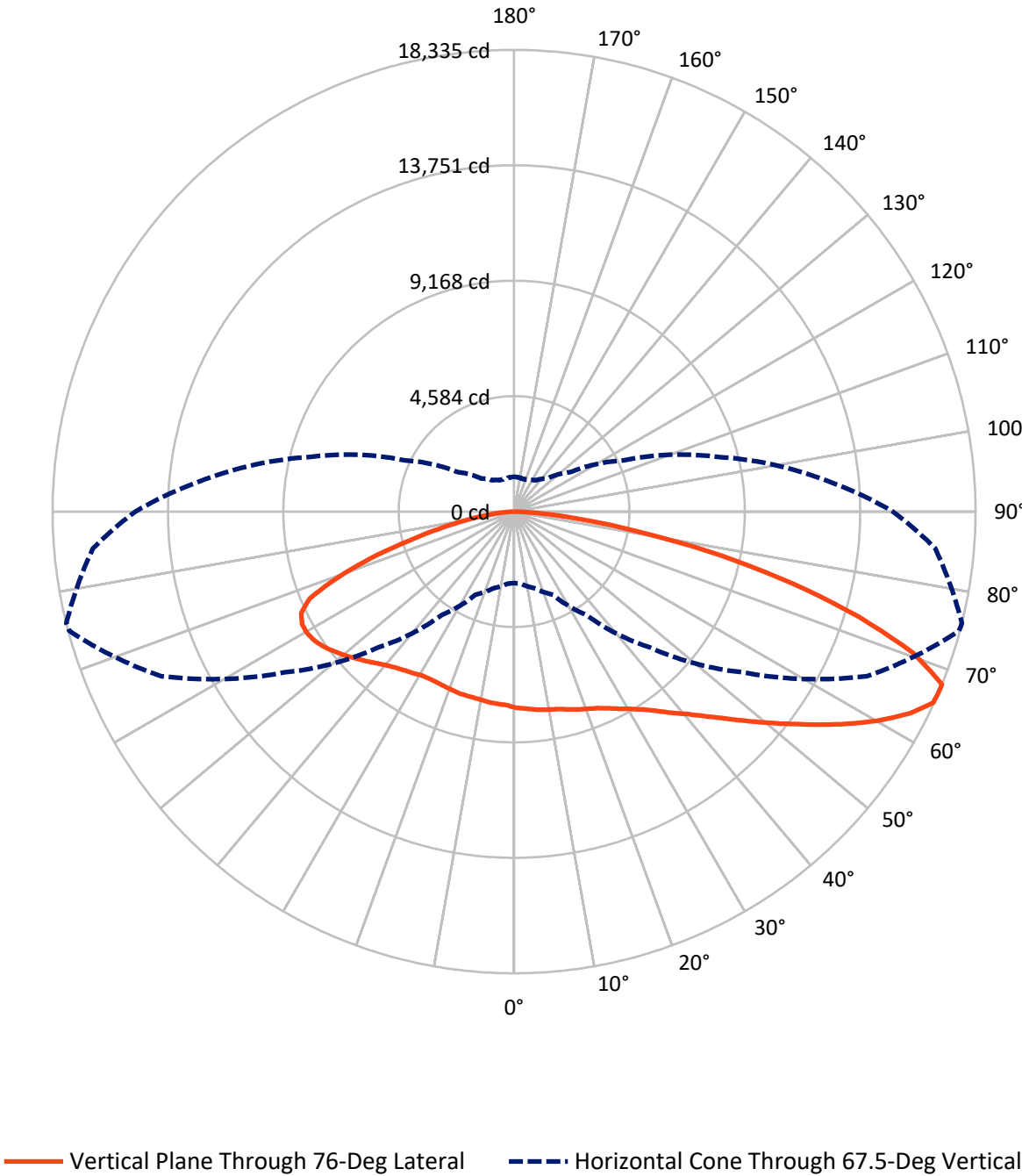
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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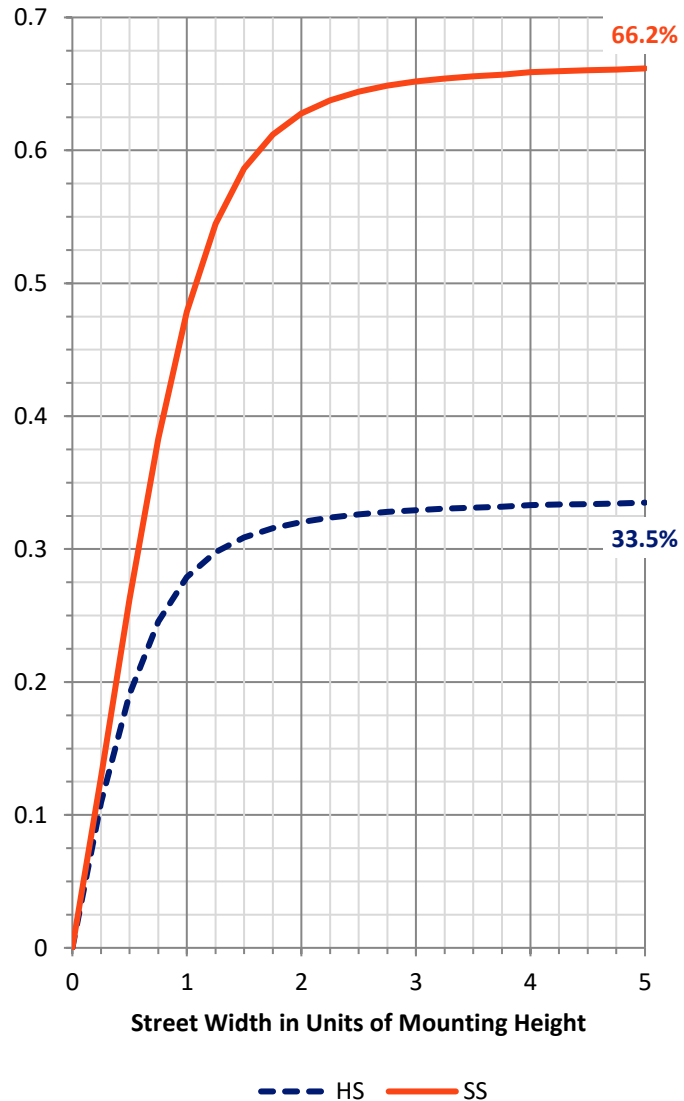
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13035.4	0.0	13035.4
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	25541.6	0.0	25541.6
	% Fixture	66.2	0.0	66.2
Total	Lumens	38577.0	0.0	38577.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.4	1.9
10°-20°	2297.2	6.0
20°-30°	3903.0	10.1
30°-40°	5553.5	14.4
40°-50°	7013.8	18.2
50°-60°	7593.8	19.7
60°-70°	7063.0	18.3
70°-80°	3793.5	9.8
80°-90°	607.9	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°	38577.0	100.0
0°-180°	38577.0	100.0

Coefficient of Utilization



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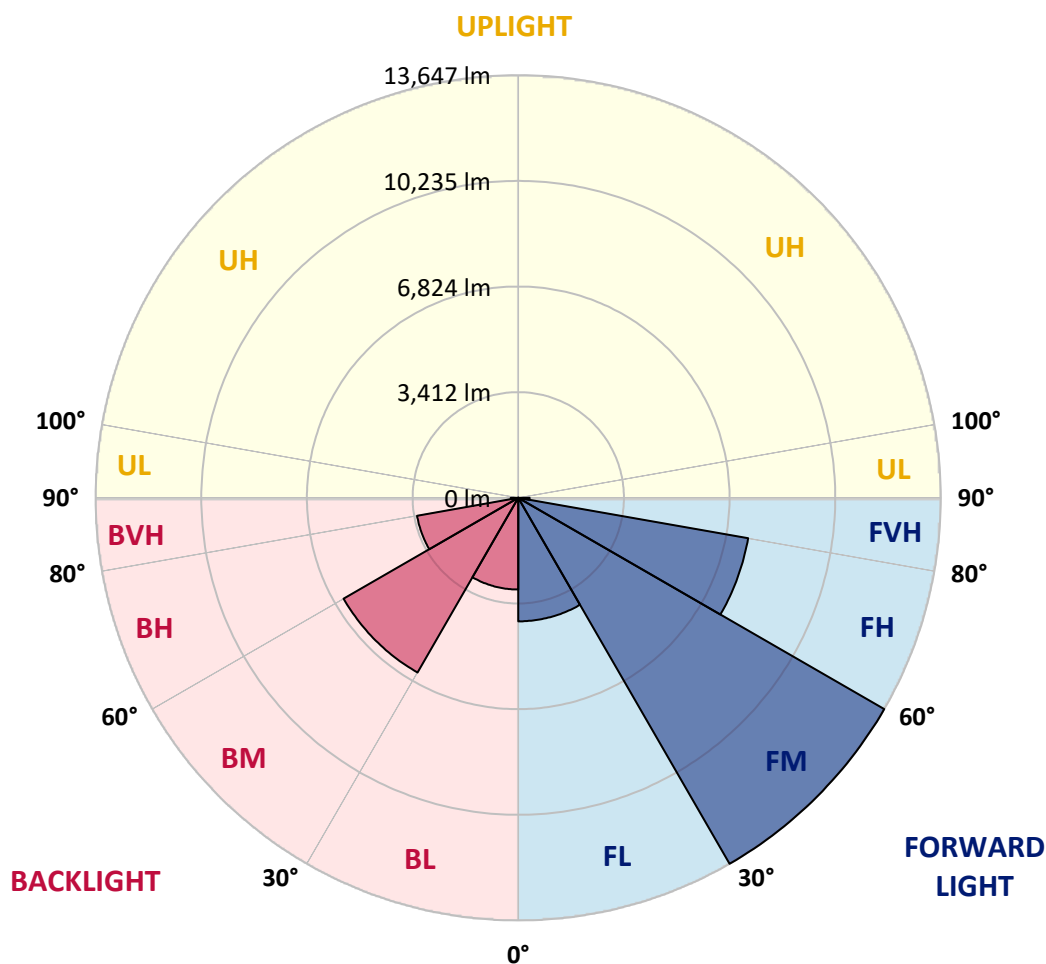
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3989.3	10.3			
FM	(30°-60°)	13647.1	35.4			
FH	(60°-80°)	7537.6	19.5			G4/12000
FVH	(80°-90°)	367.7	1.0			G3/500
BL	(0°-30°)	2962.3	7.7	B4/5000		
BM	(30°-60°)	6514.0	16.9	B4/8500		
BH	(60°-80°)	3318.9	8.6	B4/5000		G4/5000
BVH	(80°-90°)	240.2	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°	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5
2.5°	8028.8	8014.5	7957.2	7964.4	7964.4	7957.2	7871.3	7835.4	7835.4	7828.3	7749.5
5°	8315.3	8293.8	8229.4	8215.0	8186.4	8150.6	8014.5	7935.7	7899.9	7892.7	7785.3
7.5°	8651.9	8623.3	8544.5	8501.5	8429.9	8336.8	8164.9	8043.1	7957.2	7950.0	7799.6
10°	8988.6	8959.9	8866.8	8788.0	8687.7	8537.3	8315.3	8136.3	8000.2	7985.8	7806.8
12.5°	9389.6	9361.0	9246.4	9146.1	8995.7	8795.2	8501.5	8258.0	8071.8	8050.3	7828.3
15°	9812.2	9769.2	9654.6	9540.0	9353.8	9096.0	8745.0	8422.7	8186.4	8150.6	7892.7
17.5°	10163.2	10105.9	10012.7	9898.2	9690.5	9389.6	8988.6	8587.5	8293.8	8265.2	7957.2
20°	10464.0	10421.0	10320.7	10213.3	9991.3	9661.8	9217.7	8752.2	8394.1	8358.3	8007.3
22.5°	10750.5	10693.2	10635.9	10557.1	10313.6	9948.3	9482.7	8952.7	8523.0	8480.0	8071.8
25°	11079.9	11015.5	10994.0	10951.0	10664.5	10292.1	9805.0	9203.4	8702.1	8651.9	8186.4
27.5°	11488.2	11416.5	11373.6	11373.6	11029.8	10643.0	10148.8	9497.1	8909.8	8866.8	8329.6
30°	11917.9	11831.9	11767.5	11767.5	11380.7	10994.0	10485.5	9790.7	9146.1	9096.0	8515.9
32.5°	12297.5	12211.5	12139.9	12132.8	11731.7	11344.9	10836.4	10113.0	9432.6	9368.2	8745.0
35°	12591.1	12512.4	12447.9	12462.2	12082.6	11703.0	11230.3	10542.8	9790.7	9719.1	9045.9
37.5°	12770.2	12741.5	12705.7	12755.9	12404.9	12046.8	11638.6	10958.2	10199.0	10134.5	9418.3
40°	12863.3	12841.8	12985.1	13049.5	12677.1	12354.8	12046.8	11387.9	10643.0	10571.4	9848.0
42.5°	12999.4	13178.4	13235.7	13221.4	12877.6	12591.1	12419.2	11853.4	11165.9	11101.4	10363.7
45°	12512.4	12469.4	12784.5	12956.4	12892.0	12741.5	12770.2	12412.1	11774.6	11710.2	10958.2
47.5°	11860.6	11803.3	11982.4	12404.9	12655.6	12798.8	13085.3	12992.2	12476.5	12419.2	11652.9
50°	10485.5	10564.2	11230.3	11796.1	12290.3	12784.5	13350.3	13615.3	13250.1	13192.8	12397.8
52.5°	8959.9	9038.7	9733.4	11036.9	11846.3	12677.1	13543.7	14238.4	14088.0	14023.6	13192.8
55°	7849.8	8021.7	8809.5	9754.9	11216.0	12340.5	13658.3	14875.9	14990.5	14933.2	14059.4
57.5°	6746.8	6875.7	7470.2	8308.1	10356.5	11753.2	13651.1	15470.3	15935.9	15878.6	14940.3
60°	5450.4	5615.2	6087.9	6990.3	9210.6	11051.3	13450.6	15935.9	16845.5	16802.5	15792.6
62.5°	4562.3	4612.5	4949.1	5729.8	7735.2	10163.2	12999.4	16186.6	17669.1	17640.5	16559.0
65°	3674.2	3681.4	3989.3	4641.1	6309.9	9060.2	12233.0	16093.5	18292.2	18306.6	17110.5
67.5°	2836.2	2872.0	3151.4	3645.6	5013.5	7627.7	11137.2	15463.2	18299.4	18335.2	16795.3
70°	1962.4	1991.1	2413.7	2893.5	3874.7	6080.7	9654.6	13794.4	16795.3	16824.0	15054.9
72.5°	1382.3	1396.6	1847.8	2313.4	3029.6	4583.8	7284.0	11409.4	14317.2	14338.7	12662.8
75°	1031.4	1045.7	1303.5	1754.7	2320.6	3172.9	4977.7	8737.9	11438.0	11438.0	9998.4
77.5°	730.5	737.7	845.1	1210.4	1547.0	2141.5	2993.8	5722.6	8394.1	8408.4	7284.0
80°	494.2	501.4	551.5	816.5	966.9	1160.3	1625.8	3001.0	5292.9	5314.3	4626.8
82.5°	257.8	272.2	308.0	415.4	487.0	644.6	838.0	1525.5	2929.3	2986.6	2778.9
85°	100.3	100.3	114.6	136.1	179.1	250.7	386.8	580.1	1325.0	1368.0	1224.7
87.5°	35.8	35.8	43.0	43.0	50.1	57.3	64.5	85.9	150.4	150.4	143.2
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°	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5
2.5°	7720.8	7720.8	7685.0	7699.4	7692.2	7677.9	7663.5	7685.0	7663.5	7613.4	7606.3
5°	7735.2	7720.8	7663.5	7656.4	7634.9	7606.3	7570.4	7584.8	7549.0	7506.0	7498.8
7.5°	7742.3	7713.7	7634.9	7606.3	7563.3	7506.0	7448.7	7448.7	7398.5	7355.6	7348.4
10°	7728.0	7692.2	7584.8	7527.5	7448.7	7362.7	7284.0	7262.5	7205.2	7155.0	7155.0
12.5°	7735.2	7685.0	7549.0	7455.8	7348.4	7241.0	7140.7	7112.1	7061.9	7011.8	7004.6
15°	7778.1	7706.5	7534.6	7412.9	7255.3	7133.5	7026.1	7004.6	6961.7	6925.8	6925.8
17.5°	7821.1	7728.0	7513.1	7341.3	7147.9	7011.8	6911.5	6911.5	6882.9	6861.4	6861.4
20°	7842.6	7735.2	7470.2	7241.0	7019.0	6875.7	6782.6	6796.9	6789.8	6782.6	6782.6
22.5°	7892.7	7749.5	7434.4	7147.9	6882.9	6732.5	6646.5	6668.0	6660.8	6660.8	6668.0
25°	7971.5	7785.3	7405.7	7061.9	6754.0	6589.2	6496.1	6510.4	6510.4	6510.4	6510.4
27.5°	8079.0	7856.9	7398.5	6983.1	6625.0	6438.8	6324.2	6324.2	6295.6	6302.7	6309.9
30°	8243.7	7993.0	7412.9	6911.5	6488.9	6252.6	6116.5	6095.0	6087.9	6102.2	6109.4
32.5°	8444.2	8179.2	7498.8	6861.4	6345.7	6044.9	5873.0	5865.8	5844.4	5844.4	5844.4
35°	8694.9	8358.3	7577.6	6854.2	6202.5	5822.9	5636.6	5615.2	5565.0	5543.5	5543.5
37.5°	9017.2	8637.6	7670.7	6804.1	6080.7	5608.0	5386.0	5314.3	5257.1	5249.9	5249.9
40°	9411.1	8952.7	7806.8	6746.8	5951.8	5386.0	5092.3	4970.6	4977.7	5006.4	5006.4
42.5°	9876.7	9339.5	7978.7	6718.1	5765.6	5156.8	4748.5	4605.3	4655.4	4684.1	4691.2
45°	10421.0	9797.9	8172.1	6682.3	5593.7	4898.9	4383.3	4204.2	4225.7	4232.9	4240.0
47.5°	11051.3	10306.4	8372.6	6653.7	5400.3	4576.6	3982.2	3745.8	3738.7	3695.7	3710.0
50°	11710.2	10843.6	8580.3	6603.5	5163.9	4197.0	3559.6	3280.3	3223.0	3158.5	3165.7
52.5°	12412.1	11395.1	8773.7	6524.8	4870.3	3810.3	3158.5	2857.7	2743.1	2671.5	2685.8
55°	13185.6	11960.9	8959.9	6403.0	4562.3	3423.5	2800.4	2492.4	2349.2	2291.9	2299.1
57.5°	13894.7	12505.2	9096.0	6252.6	4225.7	3072.6	2485.3	2184.5	2091.4	2084.2	2091.4
60°	14582.2	12963.6	9153.3	6044.9	3881.9	2750.3	2191.6	1962.4	1898.0	1933.8	1941.0
62.5°	15162.4	13257.2	9124.6	5765.6	3531.0	2442.3	1955.3	1790.5	1747.6	1819.2	1826.4
65°	15499.0	13350.3	8924.1	5364.5	3151.4	2141.5	1733.3	1554.2	1532.7	1575.7	1597.2
67.5°	15054.9	12770.2	8379.8	4813.0	2728.8	1862.2	1518.4	1375.1	1339.3	1375.1	1375.1
70°	13343.2	11065.6	7090.6	3939.2	2263.3	1590.0	1317.8	1217.6	1188.9	1217.6	1210.4
72.5°	11115.7	9203.4	5586.5	3072.6	1783.4	1339.3	1146.0	1052.8	1024.2	995.5	981.2
75°	8623.3	6990.3	4053.8	2256.1	1346.5	1074.3	959.7	873.8	802.2	830.8	816.5
77.5°	6317.1	4906.1	2872.0	1561.4	966.9	830.8	752.0	687.6	637.4	694.7	687.6
80°	4068.1	3172.9	1919.5	1045.7	666.1	580.1	551.5	515.7	565.8	737.7	752.0
82.5°	2485.3	2012.6	1146.0	680.4	436.9	386.8	358.1	358.1	580.1	637.4	644.6
85°	1110.1	1067.2	623.1	350.9	243.5	222.0	200.5	257.8	236.4	171.9	179.1
87.5°	179.1	186.2	136.1	121.8	93.1	93.1	71.6	50.1	35.8	21.5	21.5
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)