

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: P842300

Luminaire Tested: **ARCH4-300-722-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842300
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: ARCH4-300-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36747 lumens
Efficiency: N/A
Efficacy: 122.8 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): 299.2
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

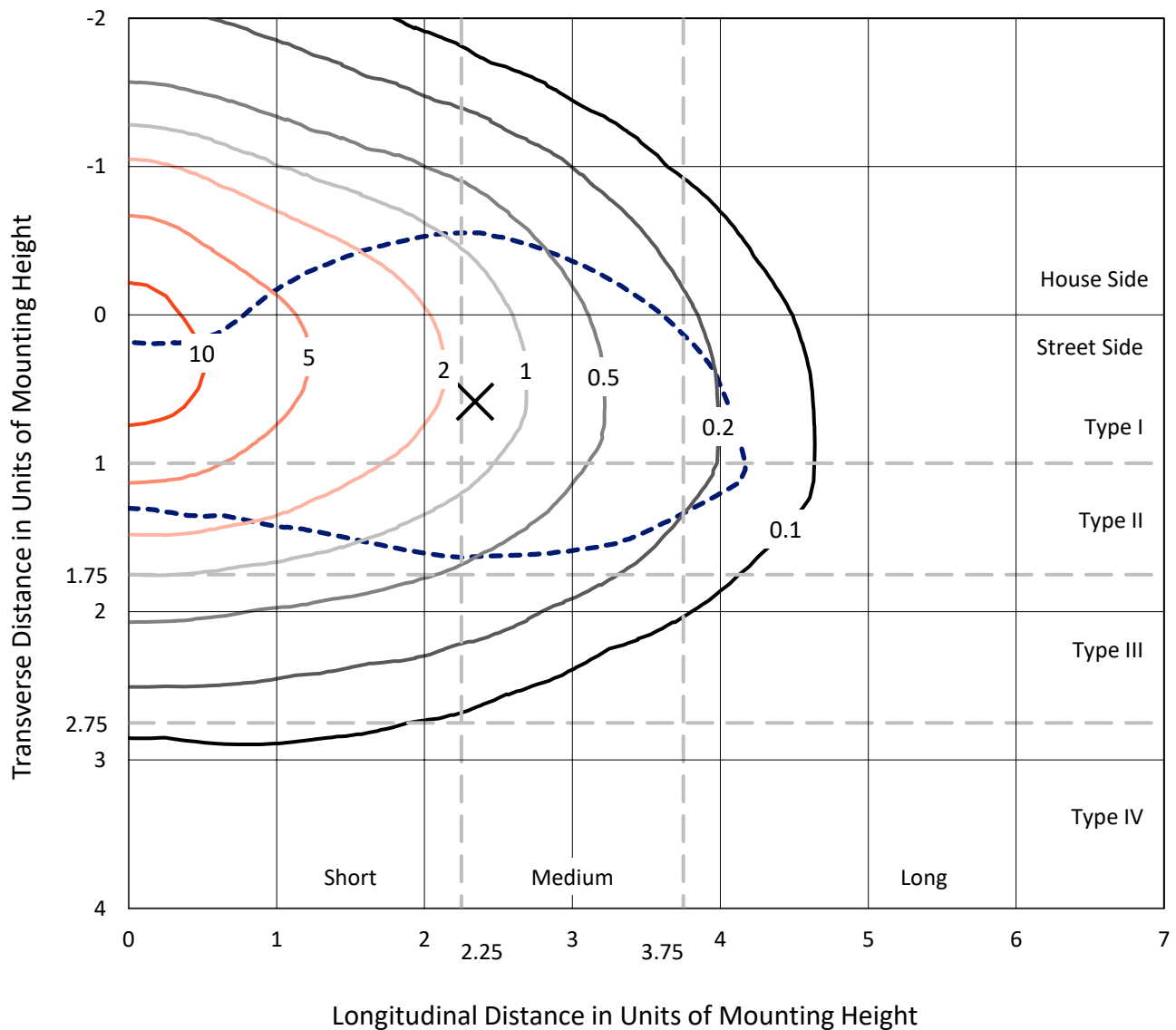


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Iso-Footcandle Lines of Horizontal Illumination

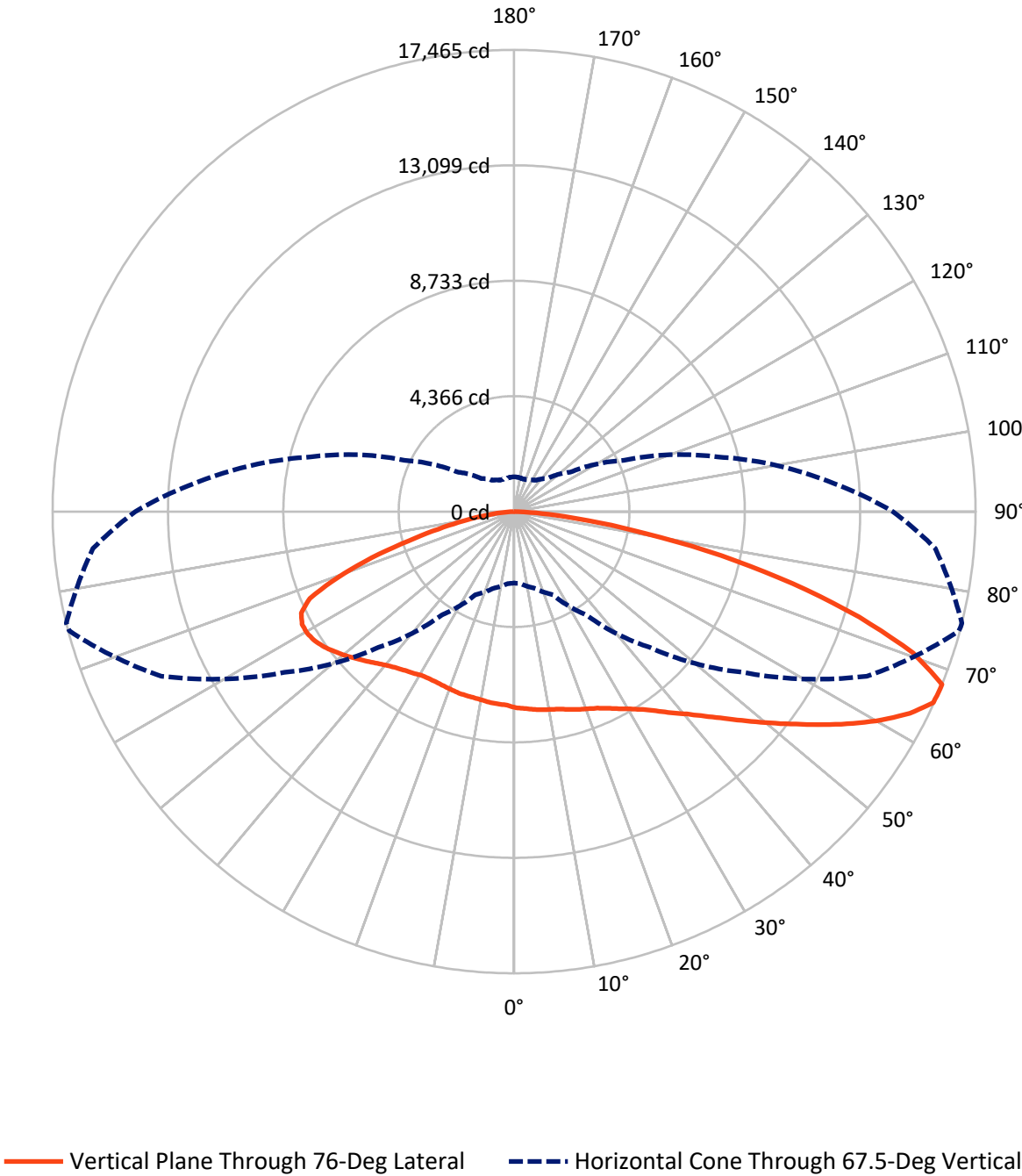
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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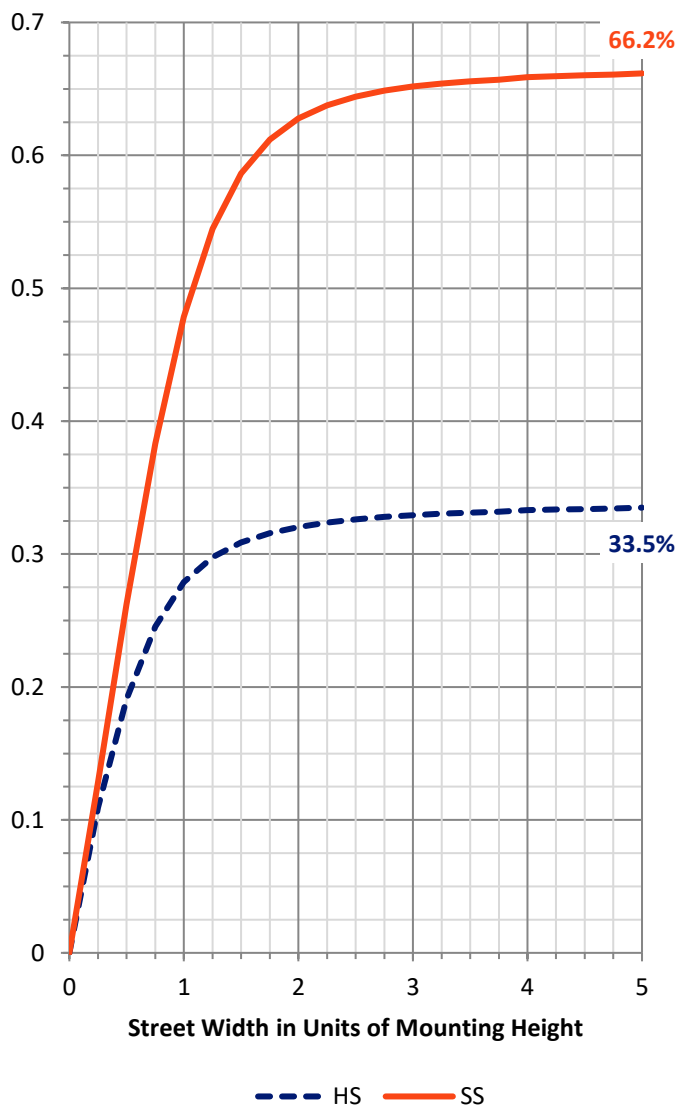
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12417.0	0.0	12417.0
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	24330.0	0.0	24330.0
	% Fixture	66.2	0.0	66.2
Total	Lumens	36747.0	0.0	36747.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.8	1.9
10°-20°	2188.2	6.0
20°-30°	3717.9	10.1
30°-40°	5290.0	14.4
40°-50°	6681.1	18.2
50°-60°	7233.5	19.7
60°-70°	6728.0	18.3
70°-80°	3613.5	9.8
80°-90°	579.0	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°	36747.0	100.0
0°-180°	36747.0	100.0

Coefficient of Utilization



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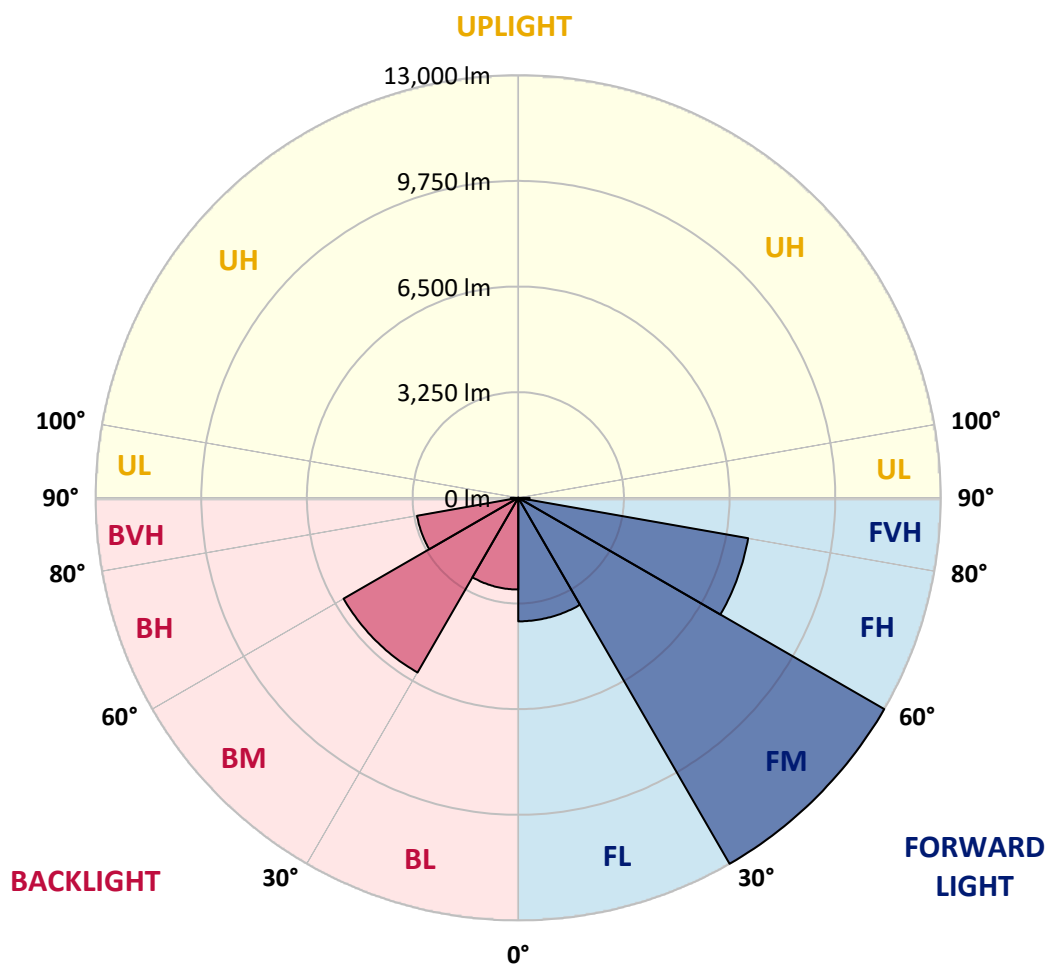
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3800.0	10.3			
FM	(30°-60°)	12999.7	35.4			
FH	(60°-80°)	7180.0	19.5			G3/7500
FVH	(80°-90°)	350.3	1.0			G3/500
BL	(0°-30°)	2821.8	7.7	B4/5000		
BM	(30°-60°)	6204.9	16.9	B4/8500		
BH	(60°-80°)	3161.5	8.6	B4/5000		G4/5000
BVH	(80°-90°)	228.8	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°	7422.8	7422.8	7422.8	7422.8	7422.8	7422.8	7422.8	7422.8	7422.8	7422.8	7422.8
2.5°	7648.0	7634.3	7579.7	7586.6	7586.6	7579.7	7497.9	7463.7	7463.7	7456.9	7381.9
5°	7920.9	7900.4	7839.0	7825.3	7798.0	7763.9	7634.3	7559.3	7525.1	7518.3	7416.0
7.5°	8241.5	8214.2	8139.2	8098.2	8030.0	7941.3	7777.6	7661.6	7579.7	7572.9	7429.6
10°	8562.2	8534.9	8446.2	8371.1	8275.6	8132.3	7920.9	7750.3	7620.7	7607.0	7436.5
12.5°	8944.2	8916.9	8807.8	8712.3	8569.0	8378.0	8098.2	7866.3	7688.9	7668.4	7456.9
15°	9346.7	9305.8	9196.6	9087.5	8910.1	8664.5	8330.2	8023.2	7798.0	7763.9	7518.3
17.5°	9681.0	9626.5	9537.8	9428.6	9230.8	8944.2	8562.2	8180.1	7900.4	7873.1	7579.7
20°	9967.6	9926.6	9831.1	9728.8	9517.3	9203.5	8780.5	8337.0	7995.9	7961.8	7627.5
22.5°	10240.5	10185.9	10131.3	10056.3	9824.3	9476.4	9032.9	8528.0	8118.7	8077.8	7688.9
25°	10554.3	10492.9	10472.4	10431.5	10158.6	9803.8	9339.9	8766.8	8289.3	8241.5	7798.0
27.5°	10943.2	10875.0	10834.0	10834.0	10506.6	10138.1	9667.4	9046.6	8487.1	8446.2	7934.5
30°	11352.5	11270.7	11209.3	11209.3	10840.9	10472.4	9988.0	9326.3	8712.3	8664.5	8111.9
32.5°	11714.1	11632.3	11564.0	11557.2	11175.2	10806.7	10322.3	9633.3	8985.2	8923.7	8330.2
35°	11993.8	11918.8	11857.4	11871.0	11509.5	11147.9	10697.6	10042.6	9326.3	9258.0	8616.7
37.5°	12164.4	12137.1	12103.0	12150.8	11816.5	11475.3	11086.5	10438.3	9715.2	9653.8	8971.5
40°	12253.1	12232.6	12369.1	12430.5	12075.7	11768.7	11475.3	10847.7	10138.1	10069.9	9380.9
42.5°	12382.7	12553.3	12607.9	12594.2	12266.7	11993.8	11830.1	11291.1	10636.2	10574.8	9872.1
45°	11918.8	11877.9	12178.1	12341.8	12280.4	12137.1	12164.4	11823.3	11216.1	11154.7	10438.3
47.5°	11298.0	11243.4	11413.9	11816.5	12055.2	12191.7	12464.6	12375.9	11884.7	11830.1	11100.1
50°	9988.0	10063.1	10697.6	11236.6	11707.3	12178.1	12717.0	12969.5	12621.5	12566.9	11809.6
52.5°	8534.9	8609.9	9271.7	10513.4	11284.3	12075.7	12901.2	13563.0	13419.7	13358.3	12566.9
55°	7477.4	7641.1	8391.6	9292.2	10683.9	11755.1	13010.4	14170.2	14279.4	14224.8	13392.4
57.5°	6426.7	6549.5	7115.8	7914.0	9865.2	11195.6	13003.6	14736.5	15179.9	15125.3	14231.6
60°	5191.9	5348.8	5799.1	6658.7	8773.7	10527.0	12812.5	15179.9	16046.4	16005.4	15043.5
62.5°	4345.9	4393.7	4714.3	5458.0	7368.2	9681.0	12382.7	15418.7	16831.0	16803.7	15773.5
65°	3499.9	3506.7	3800.1	4420.9	6010.6	8630.4	11652.7	15330.0	17424.5	17438.2	16298.8
67.5°	2701.7	2735.8	3001.9	3472.6	4775.7	7265.9	10608.9	14729.6	17431.3	17465.4	15998.6
70°	1869.3	1896.6	2299.2	2756.3	3690.9	5792.3	9196.6	13140.0	15998.6	16025.9	14340.8
72.5°	1316.7	1330.4	1760.2	2203.6	2885.9	4366.4	6938.4	10868.1	13638.1	13658.5	12062.1
75°	982.4	996.1	1241.7	1671.5	2210.5	3022.3	4741.6	8323.4	10895.4	10895.4	9524.1
77.5°	695.9	702.7	805.0	1153.0	1473.6	2039.9	2851.8	5451.1	7995.9	8009.5	6938.4
80°	470.7	477.6	525.3	777.8	921.0	1105.2	1548.7	2858.6	5041.8	5062.2	4407.3
82.5°	245.6	259.3	293.4	395.7	463.9	614.0	798.2	1453.2	2790.4	2845.0	2647.1
85°	95.5	95.5	109.2	129.6	170.6	238.8	368.4	552.6	1262.2	1303.1	1166.6
87.5°	34.1	34.1	40.9	40.9	47.8	54.6	61.4	81.9	143.3	143.3	136.4
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°	7422.8	7422.8	7422.8	7422.8	7422.8	7422.8	7422.8	7422.8	7422.8	7422.8	7422.8
2.5°	7354.6	7354.6	7320.5	7334.1	7327.3	7313.7	7300.0	7320.5	7300.0	7252.3	7245.4
5°	7368.2	7354.6	7300.0	7293.2	7272.7	7245.4	7211.3	7225.0	7190.8	7149.9	7143.1
7.5°	7375.1	7347.8	7272.7	7245.4	7204.5	7149.9	7095.3	7095.3	7047.6	7006.6	6999.8
10°	7361.4	7327.3	7225.0	7170.4	7095.3	7013.5	6938.4	6918.0	6863.4	6815.6	6815.6
12.5°	7368.2	7320.5	7190.8	7102.2	6999.8	6897.5	6802.0	6774.7	6726.9	6679.2	6672.3
15°	7409.2	7340.9	7177.2	7061.2	6911.1	6795.1	6692.8	6672.3	6631.4	6597.3	6597.3
17.5°	7450.1	7361.4	7156.7	6993.0	6808.8	6679.2	6583.7	6583.7	6556.4	6535.9	6535.9
20°	7470.6	7368.2	7115.8	6897.5	6686.0	6549.5	6460.8	6474.5	6467.7	6460.8	6460.8
22.5°	7518.3	7381.9	7081.7	6808.8	6556.4	6413.1	6331.2	6351.7	6344.9	6344.9	6351.7
25°	7593.4	7416.0	7054.4	6726.9	6433.6	6276.6	6188.0	6201.6	6201.6	6201.6	6201.6
27.5°	7695.7	7484.2	7047.6	6651.9	6310.8	6133.4	6024.2	6024.2	5996.9	6003.7	6010.6
30°	7852.6	7613.8	7061.2	6583.7	6181.1	5956.0	5826.4	5805.9	5799.1	5812.7	5819.5
32.5°	8043.7	7791.2	7143.1	6535.9	6044.7	5758.1	5594.4	5587.6	5567.1	5567.1	5567.1
35°	8282.4	7961.8	7218.1	6529.1	5908.2	5546.6	5369.3	5348.8	5301.0	5280.6	5280.6
37.5°	8589.4	8227.9	7306.8	6481.3	5792.3	5342.0	5130.5	5062.2	5007.7	5000.8	5000.8
40°	8964.7	8528.0	7436.5	6426.7	5669.4	5130.5	4850.8	4734.8	4741.6	4768.9	4768.9
42.5°	9408.1	8896.5	7600.2	6399.4	5492.1	4912.2	4523.3	4386.8	4434.6	4461.9	4468.7
45°	9926.6	9333.1	7784.4	6365.3	5328.3	4666.5	4175.3	4004.8	4025.2	4032.1	4038.9
47.5°	10527.0	9817.5	7975.4	6338.0	5144.1	4359.5	3793.3	3568.1	3561.3	3520.4	3534.0
50°	11154.7	10329.2	8173.3	6290.3	4919.0	3997.9	3390.8	3124.7	3070.1	3008.7	3015.5
52.5°	11823.3	10854.5	8357.5	6215.2	4639.3	3629.5	3008.7	2722.2	2613.0	2544.8	2558.4
55°	12560.1	11393.5	8534.9	6099.3	4345.9	3261.1	2667.6	2374.2	2237.8	2183.2	2190.0
57.5°	13235.5	11912.0	8664.5	5956.0	4025.2	2926.8	2367.4	2080.8	1992.2	1985.3	1992.2
60°	13890.5	12348.6	8719.1	5758.1	3697.8	2619.8	2087.7	1869.3	1807.9	1842.1	1848.9
62.5°	14443.1	12628.3	8691.8	5492.1	3363.5	2326.5	1862.5	1705.6	1664.7	1732.9	1739.7
65°	14763.8	12717.0	8500.8	5110.0	3001.9	2039.9	1651.0	1480.5	1460.0	1500.9	1521.4
67.5°	14340.8	12164.4	7982.3	4584.7	2599.3	1773.8	1446.4	1309.9	1275.8	1309.9	1309.9
70°	12710.2	10540.7	6754.2	3752.3	2155.9	1514.6	1255.3	1159.8	1132.5	1159.8	1153.0
72.5°	10588.4	8766.8	5321.5	2926.8	1698.8	1275.8	1091.6	1002.9	975.6	948.3	934.7
75°	8214.2	6658.7	3861.5	2149.1	1282.6	1023.4	914.2	832.3	764.1	791.4	777.8
77.5°	6017.4	4673.4	2735.8	1487.3	921.0	791.4	716.4	655.0	607.2	661.8	655.0
80°	3875.1	3022.3	1828.4	996.1	634.5	552.6	525.3	491.2	539.0	702.7	716.4
82.5°	2367.4	1917.1	1091.6	648.1	416.2	368.4	341.1	341.1	552.6	607.2	614.0
85°	1057.5	1016.5	593.6	334.3	232.0	211.5	191.0	245.6	225.1	163.7	170.6
87.5°	170.6	177.4	129.6	116.0	88.7	88.7	68.2	47.8	34.1	20.5	20.5
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)