

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: P842034

Luminaire Tested: **ARCH4-260-730-U-T4W**

Issue Date: 5/27/2024

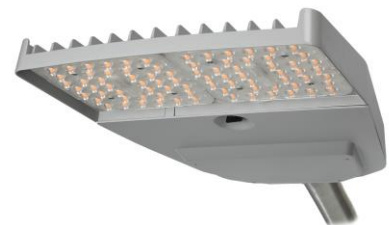
Test Information

Test Method: LM-79-08
Report Number: P842034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-260-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36932 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
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

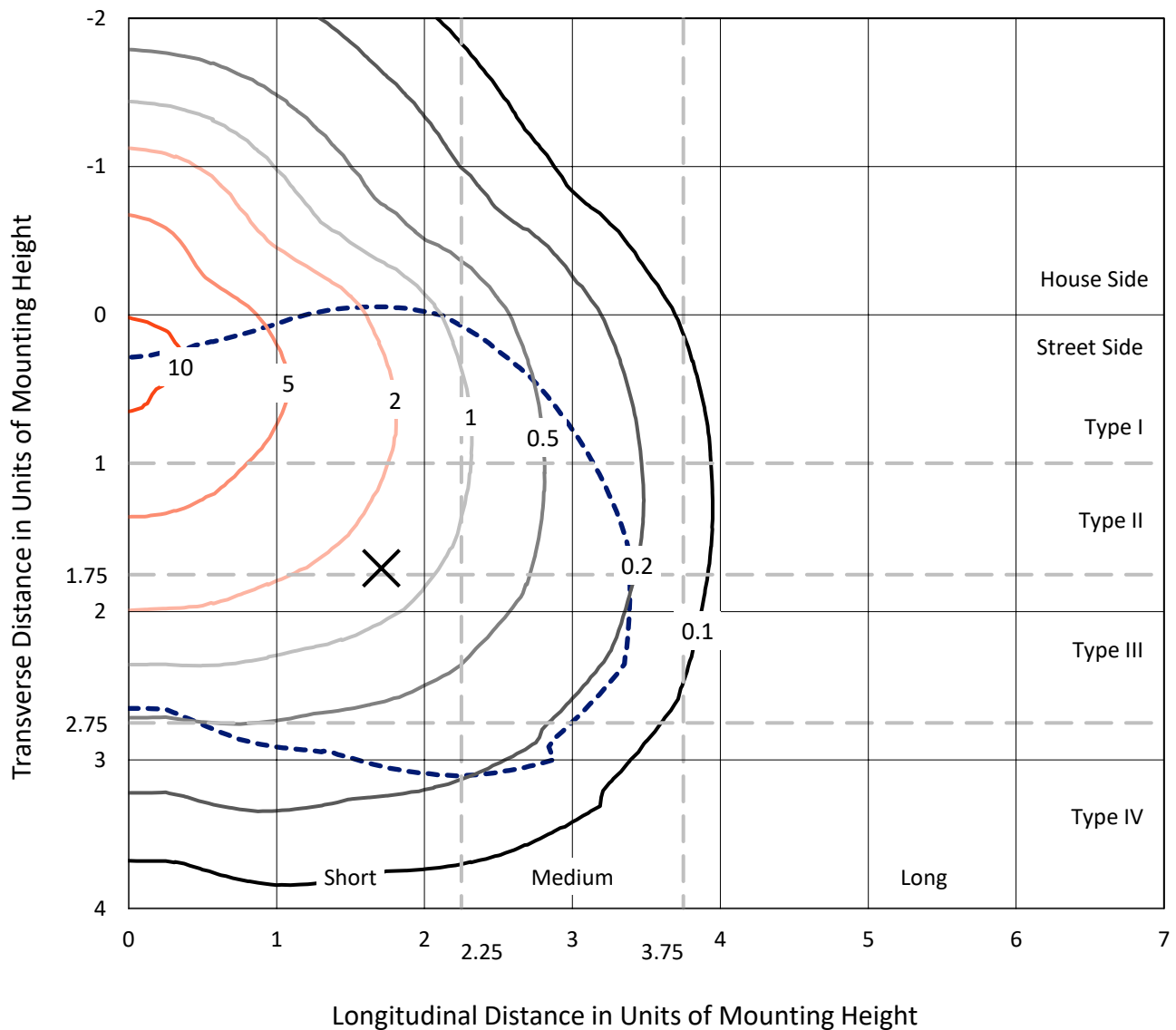


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Iso-Footcandle Lines of Horizontal Illumination

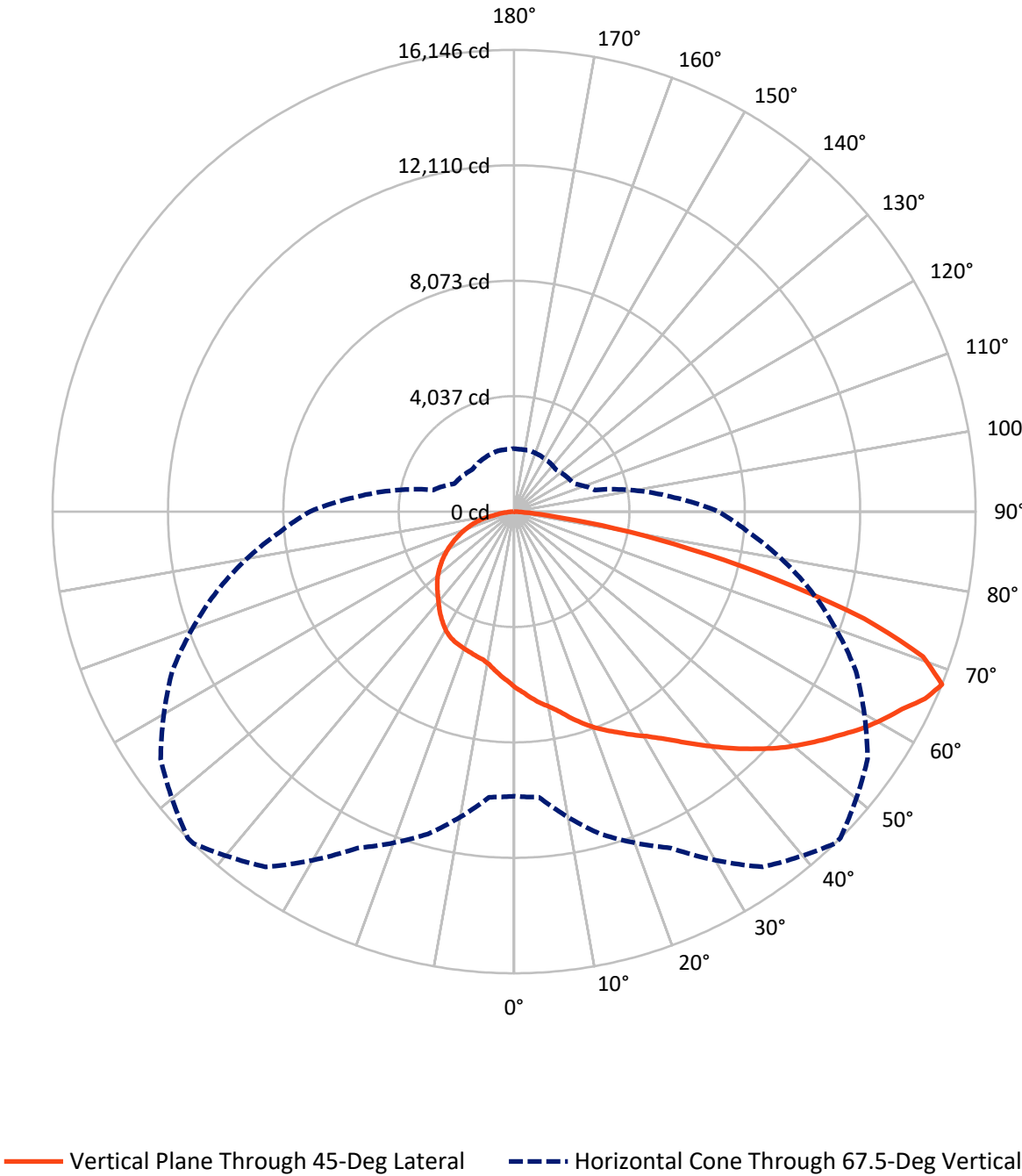
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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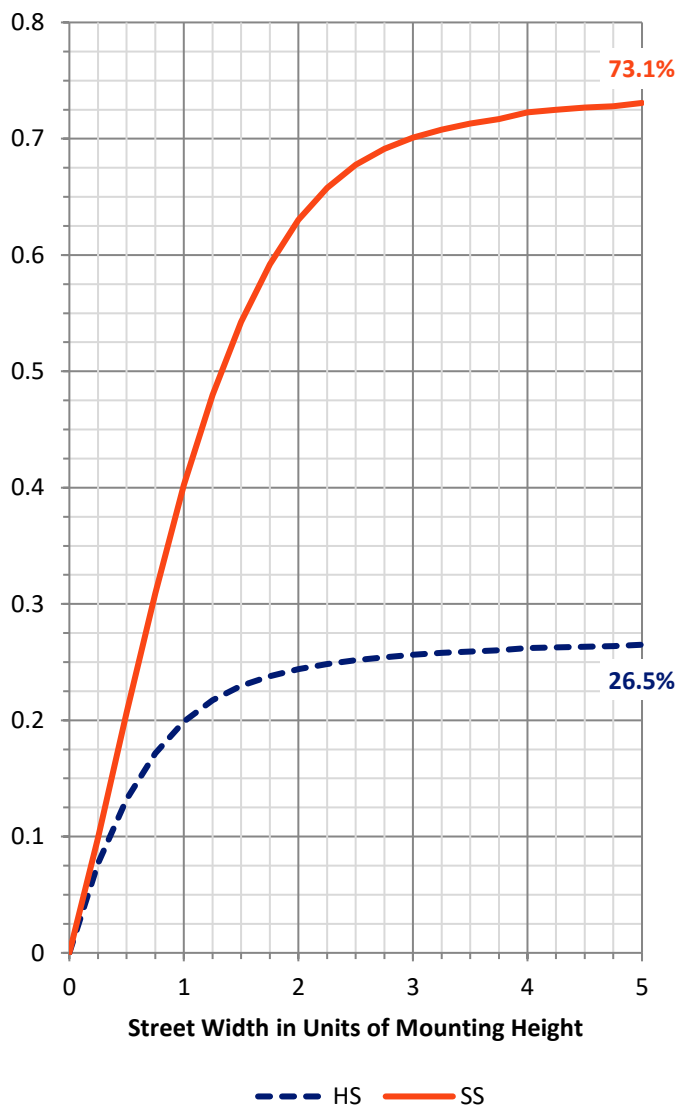
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9866.4	0.0	9866.4
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	27065.6	0.0	27065.6
	% Fixture	73.3	0.0	73.3
Total	Lumens	36932.0	0.0	36932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.8	1.6
10°-20°	1821.8	4.9
20°-30°	3144.6	8.5
30°-40°	4637.2	12.6
40°-50°	6282.6	17.0
50°-60°	7678.8	20.8
60°-70°	7919.6	21.4
70°-80°	4337.8	11.7
80°-90°	519.9	1.4
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°	36932.0	100.0
0°-180°	36932.0	100.0

Coefficient of Utilization



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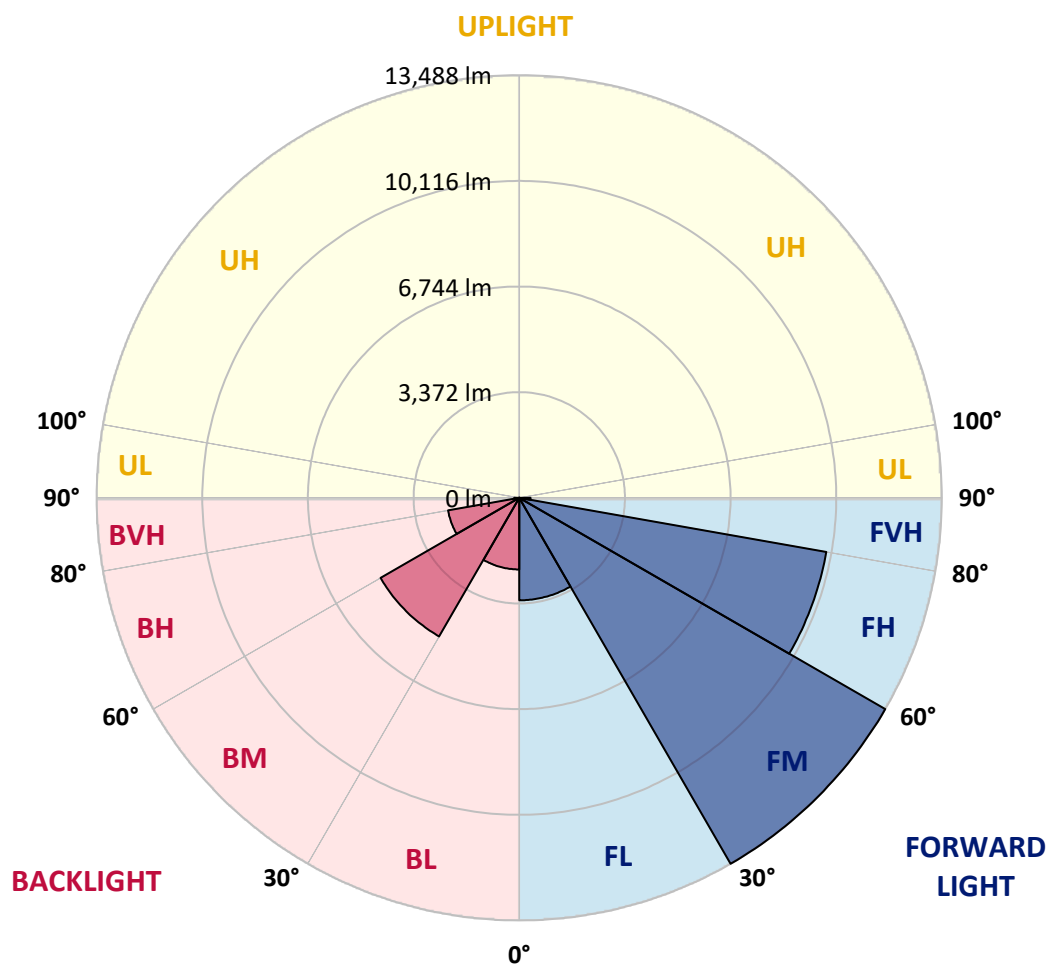
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3269.5	8.9			
FM	(30°-60°)	13487.9	36.5			
FH	(60°-80°)	9950.0	26.9			G4/12000
FVH	(80°-90°)	358.2	1.0			G3/500
BL	(0°-30°)	2286.7	6.2	B3/2500		
BM	(30°-60°)	5110.6	13.8	B4/8500		
BH	(60°-80°)	2307.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	161.7	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	6159.6	6159.6	6159.6	6159.6	6159.6	6159.6	6159.6	6159.6	6159.6	6159.6	6159.6
2.5°	6429.3	6423.7	6434.9	6395.6	6345.0	6339.4	6339.4	6305.7	6266.3	6187.7	6125.8
5°	6732.8	6721.6	6727.2	6671.0	6603.5	6569.8	6564.2	6491.1	6401.2	6277.6	6165.2
7.5°	7013.8	7002.6	6996.9	6935.1	6834.0	6777.8	6772.1	6665.4	6558.6	6367.5	6204.5
10°	7277.9	7266.7	7255.5	7171.2	7047.5	6963.2	6952.0	6817.1	6682.2	6446.2	6238.2
12.5°	7615.1	7592.7	7581.4	7480.3	7300.4	7210.5	7193.6	7013.8	6845.2	6558.6	6305.7
15°	7969.2	7952.3	7935.5	7839.9	7637.6	7519.6	7491.5	7266.7	7036.3	6704.7	6406.8
17.5°	8233.3	8216.5	8216.5	8132.2	7946.7	7811.8	7789.4	7519.6	7233.0	6839.6	6485.5
20°	8396.3	8379.5	8396.3	8345.8	8205.2	8092.8	8070.4	7772.5	7429.7	6963.2	6553.0
22.5°	8514.4	8497.5	8525.6	8503.1	8402.0	8334.5	8317.7	8025.4	7632.0	7092.5	6620.4
25°	8722.3	8722.3	8722.3	8683.0	8587.4	8564.9	8564.9	8312.0	7890.5	7261.1	6721.6
27.5°	9138.2	9115.7	9087.6	8975.2	8812.2	8806.6	8840.3	8604.3	8188.4	7480.3	6845.2
30°	9750.8	9739.5	9632.7	9396.7	9121.3	9093.2	9115.7	8919.0	8508.7	7710.7	6985.7
32.5°	10543.2	10503.8	10284.7	9930.6	9537.2	9407.9	9452.9	9245.0	8845.9	7946.7	7120.6
35°	11105.2	11116.4	10959.1	10638.7	10172.3	9829.4	9863.2	9610.3	9211.2	8210.9	7289.2
37.5°	11751.5	11790.8	11554.8	11313.1	10880.4	10295.9	10329.6	9986.8	9576.5	8542.5	7469.0
40°	12645.1	12566.4	12167.4	11880.8	11403.0	10784.8	10812.9	10408.3	9998.0	8857.2	7677.0
42.5°	13392.5	13252.0	12768.7	12403.4	11830.2	11301.9	11330.0	10863.5	10425.2	9205.6	7907.4
45°	14466.0	14078.2	13381.3	13201.5	12268.5	11807.7	11835.8	11346.8	10874.8	9576.5	8154.7
47.5°	15089.8	14471.6	14027.6	13932.1	12751.9	12330.4	12364.1	11858.3	11358.1	9998.0	8413.2
50°	15050.5	14651.4	14522.2	14286.1	13179.0	12819.3	12853.0	12386.6	11847.0	10413.9	8660.5
52.5°	14791.9	14865.0	14797.5	14404.1	13606.1	13291.4	13330.7	12909.2	12347.2	10801.7	8890.9
55°	15191.0	15241.5	15112.3	14595.2	14078.2	13763.5	13808.4	13460.0	12841.8	11144.5	9087.6
57.5°	15668.7	15488.8	15359.6	14932.4	14567.1	14274.9	14325.5	14022.0	13268.9	11419.9	9239.3
60°	15646.2	15269.6	15398.9	14954.9	14898.7	14747.0	14791.9	14482.8	13594.9	11622.2	9301.2
62.5°	14494.1	14291.7	14943.7	14791.9	15168.5	15168.5	15224.7	14763.8	13791.6	11706.5	9267.4
65°	12493.3	12504.6	13651.1	14280.5	15488.8	15747.3	15792.3	14938.1	13679.2	11459.2	8952.7
67.5°	9953.1	10026.1	11672.8	12982.3	15168.5	16140.7	16146.4	15095.4	13195.8	10762.4	8222.1
70°	7283.6	7339.8	9284.3	10874.8	13656.7	15269.6	15179.7	14651.4	12144.9	9548.4	7081.2
72.5°	4923.1	4973.7	6974.5	8351.4	11206.3	13004.8	12808.1	12948.6	10352.1	7845.6	5693.1
75°	3310.2	3372.0	4962.5	5974.1	8244.6	9874.4	9436.0	9807.0	8008.5	5940.4	4153.2
77.5°	2085.0	2124.4	3152.8	3917.2	5631.3	6721.6	6283.2	6288.8	4614.0	3197.8	2231.2
80°	1326.3	1337.6	1910.8	2259.3	3259.6	4040.8	3574.3	2905.6	2079.4	1697.3	1331.9
82.5°	769.9	753.1	1140.9	1275.7	1551.1	1534.3	1270.1	1202.7	910.4	848.6	680.0
85°	309.1	286.6	500.2	466.5	472.1	500.2	370.9	370.9	297.9	230.4	168.6
87.5°	61.8	61.8	67.4	61.8	61.8	67.4	50.6	50.6	45.0	45.0	45.0
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°	6159.6	6159.6	6159.6	6159.6	6159.6	6159.6	6159.6	6159.6	6159.6	6159.6	6159.6
2.5°	6114.6	6103.4	6075.3	6002.2	5962.9	5940.4	5906.7	5895.4	5889.8	5895.4	5912.3
5°	6131.5	6092.1	6013.4	5895.4	5816.7	5766.2	5710.0	5687.5	5670.6	5670.6	5687.5
7.5°	6142.7	6080.9	5946.0	5771.8	5659.4	5580.7	5513.3	5485.2	5479.5	5496.4	5502.0
10°	6148.3	6058.4	5867.3	5648.1	5502.0	5400.9	5333.4	5316.6	5333.4	5367.1	5372.8
12.5°	6187.7	6064.0	5822.4	5563.8	5389.6	5288.5	5237.9	5237.9	5282.8	5344.7	5350.3
15°	6255.1	6103.4	5799.9	5496.4	5316.6	5226.6	5209.8	5237.9	5305.3	5400.9	5412.1
17.5°	6305.7	6125.8	5749.3	5406.5	5221.0	5164.8	5192.9	5260.4	5355.9	5485.2	5496.4
20°	6339.4	6125.8	5676.2	5299.7	5125.5	5114.2	5192.9	5299.7	5400.9	5552.6	5569.5
22.5°	6373.1	6114.6	5591.9	5170.4	5018.7	5052.4	5198.5	5333.4	5434.6	5597.6	5625.7
25°	6434.9	6131.5	5507.6	5041.2	4906.3	5001.8	5192.9	5355.9	5462.7	5631.3	5676.2
27.5°	6519.2	6170.8	5445.8	4923.1	4793.9	4923.1	5153.6	5350.3	5462.7	5625.7	5676.2
30°	6609.2	6215.8	5372.8	4793.9	4664.6	4810.7	5069.3	5288.5	5417.7	5569.5	5631.3
32.5°	6704.7	6266.3	5310.9	4653.4	4507.3	4659.0	4945.6	5192.9	5333.4	5473.9	5541.4
35°	6834.0	6356.3	5277.2	4541.0	4366.8	4501.6	4788.3	5069.3	5221.0	5350.3	5429.0
37.5°	6991.3	6468.7	5260.4	4428.6	4215.0	4327.4	4619.7	4917.5	5080.5	5187.3	5260.4
40°	7171.2	6609.2	5254.7	4321.8	4063.3	4147.6	4445.4	4743.3	4900.7	4985.0	5046.8
42.5°	7373.5	6766.5	5243.5	4215.0	3911.5	3979.0	4276.8	4569.1	4704.0	4777.0	4833.2
45°	7587.0	6923.9	5221.0	4085.8	3748.6	3827.2	4102.6	4361.1	4501.6	4563.5	4625.3
47.5°	7800.6	7081.2	5176.1	3939.6	3602.4	3675.5	3917.2	4142.0	4254.4	4310.6	4372.4
50°	8008.5	7221.7	5069.3	3771.0	3450.7	3518.1	3703.6	3855.3	3939.6	3984.6	4046.4
52.5°	8194.0	7317.3	4917.5	3574.3	3299.0	3332.7	3456.3	3585.6	3653.0	3658.6	3714.8
55°	8351.4	7367.9	4698.3	3372.0	3136.0	3141.6	3209.0	3310.2	3338.3	3315.8	3355.2
57.5°	8441.3	7339.8	4456.7	3164.1	2967.4	2944.9	2995.5	3046.1	3051.7	2995.5	3034.8
60°	8463.8	7210.5	4142.0	2956.1	2798.8	2737.0	2753.8	2742.6	2731.3	2708.9	2742.6
62.5°	8351.4	6935.1	3793.5	2753.8	2618.9	2523.4	2517.8	2512.2	2529.0	2534.6	2540.3
65°	7941.1	6418.1	3377.6	2545.9	2427.9	2298.6	2293.0	2360.4	2382.9	2349.2	2360.4
67.5°	7148.7	5625.7	2922.4	2304.2	2186.2	2073.8	2118.8	2158.1	2197.4	2186.2	2197.4
70°	6024.7	4619.7	2506.5	2034.5	1922.1	1860.2	1910.8	1944.5	1950.2	1938.9	1950.2
72.5°	4737.7	3608.1	2118.8	1759.1	1657.9	1629.8	1691.6	1719.7	1770.3	1792.8	1798.4
75°	3422.6	2663.9	1736.6	1461.2	1376.9	1376.9	1433.1	1483.7	1528.6	1500.5	1483.7
77.5°	1910.8	1590.5	1247.6	1006.0	1022.8	1101.5	1124.0	1180.2	1225.2	1219.5	1208.3
80°	1157.7	994.7	843.0	651.9	646.3	708.1	854.2	949.8	972.3	921.7	916.1
82.5°	601.3	522.7	449.6	365.3	404.6	472.1	494.6	595.7	657.5	635.1	663.2
85°	151.7	146.1	163.0	168.6	207.9	230.4	252.9	297.9	196.7	95.5	95.5
87.5°	45.0	45.0	56.2	56.2	73.1	89.9	84.3	84.3	45.0	5.6	0.0
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)