

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: P841582

Luminaire Tested: **ARCH4-200-722-U-T3**

Issue Date: 5/27/2024

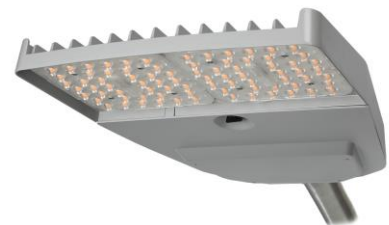
Test Information

Test Method: LM-79-08
Report Number: P841582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-200-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27408 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 203.7
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

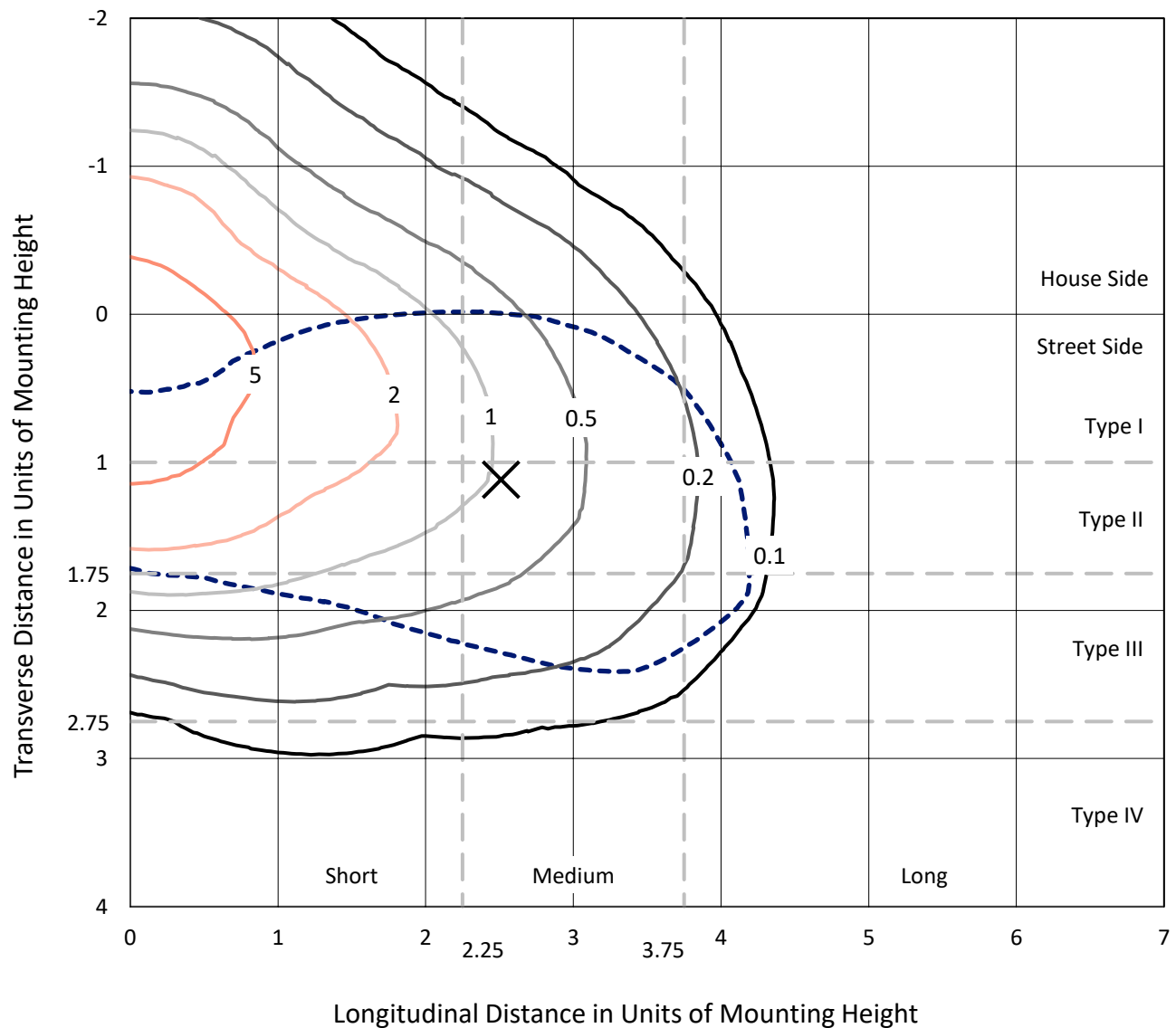


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Iso-Footcandle Lines of Horizontal Illumination

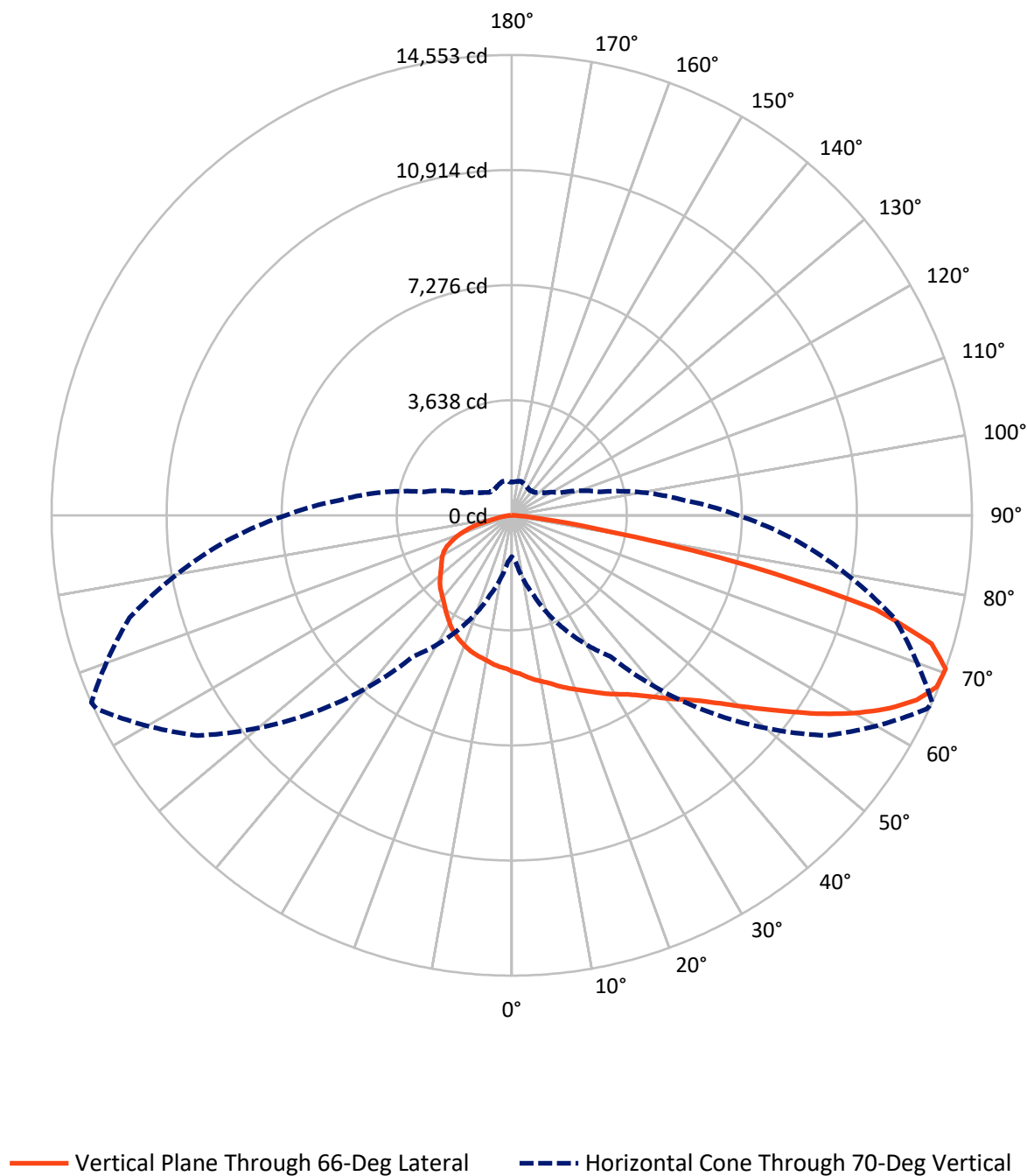
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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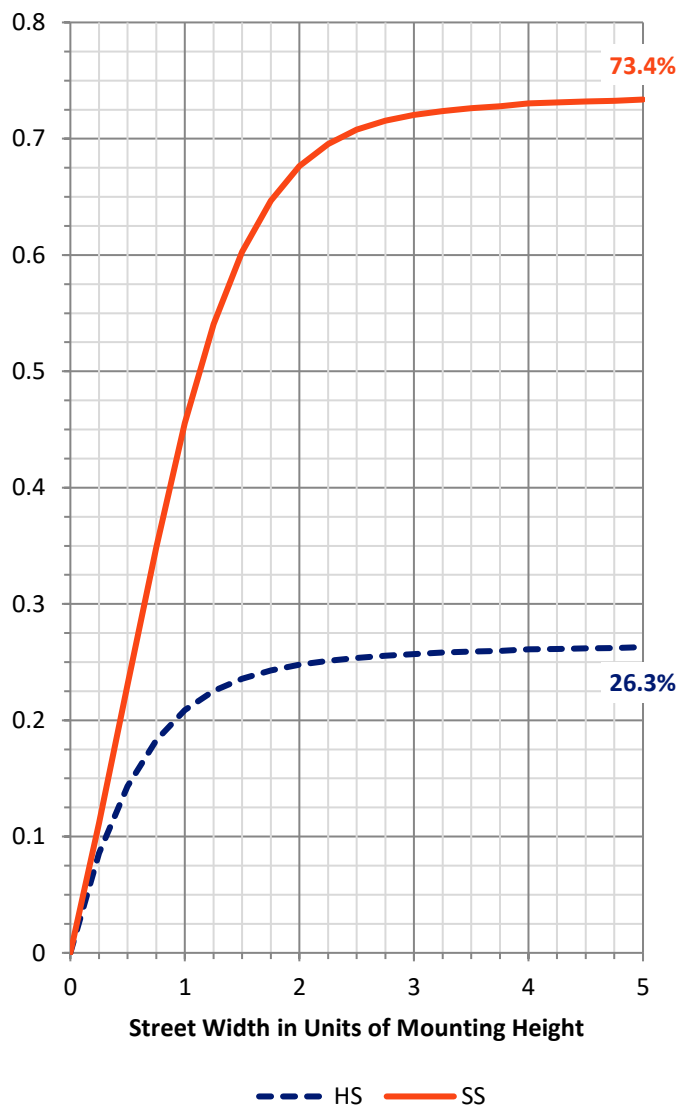
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7262.5	0.0	7262.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	20145.5	0.0	20145.5
	% Fixture	73.5	0.0	73.5
Total	Lumens	27408.0	0.0	27408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.3	1.7
10°-20°	1425.8	5.2
20°-30°	2390.0	8.7
30°-40°	3578.7	13.1
40°-50°	4784.7	17.5
50°-60°	5586.3	20.4
60°-70°	5554.7	20.3
70°-80°	3288.5	12.0
80°-90°	324.1	1.2
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°	27408.0	100.0
0°-180°	27408.0	100.0

Coefficient of Utilization



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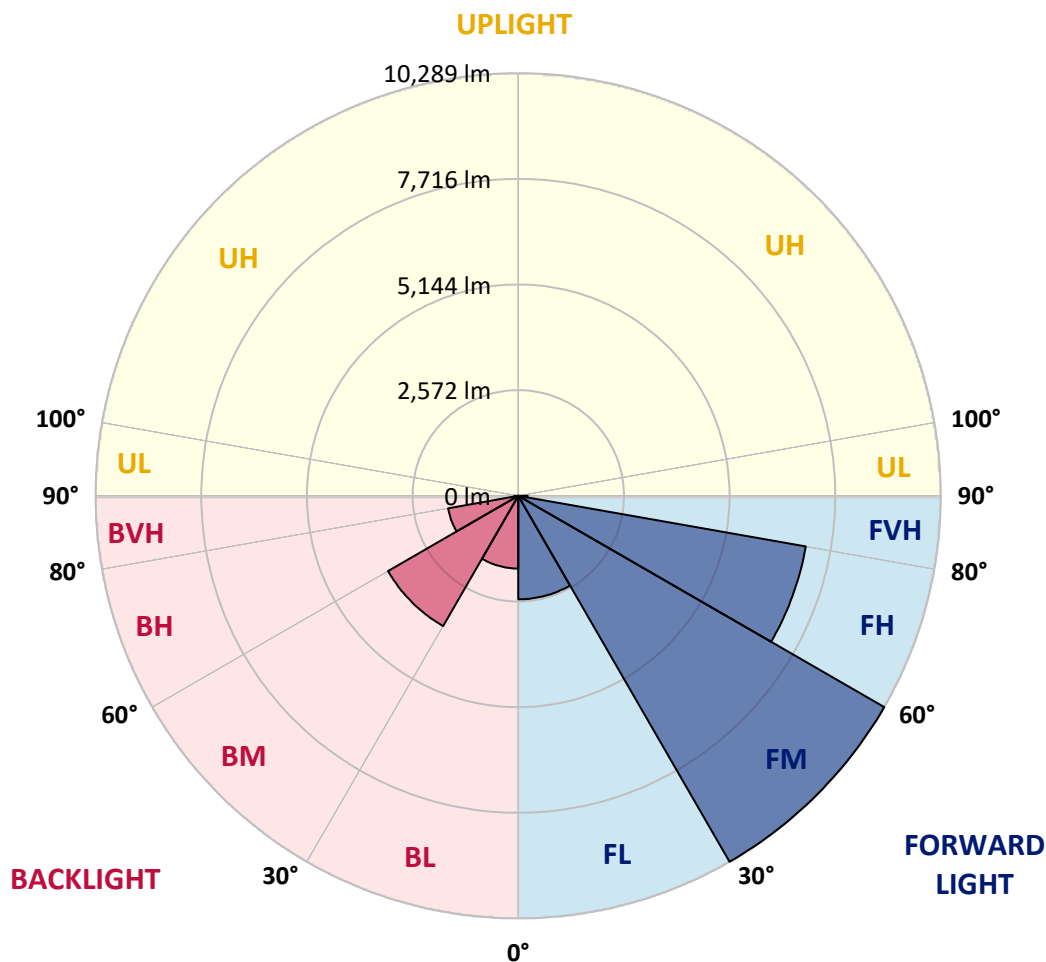
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2520.8	9.2			
FM	(30°-60°)	10288.6	37.5			
FH	(60°-80°)	7108.3	25.9			G3/7500
FVH	(80°-90°)	227.8	0.8			G3/500
BL	(0°-30°)	1770.3	6.5	B3/2500		
BM	(30°-60°)	3661.1	13.4	B3/5000		
BH	(60°-80°)	1734.8	6.3	B3/2500		G3/2500
BVH	(80°-90°)	96.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4946.5	4946.5	4946.5	4946.5	4946.5	4946.5	4946.5	4946.5	4946.5	4946.5	4946.5
2.5°	5128.4	5120.3	5116.3	5100.1	5063.7	5079.9	5043.5	5019.3	5015.2	4958.6	4926.3
5°	5338.5	5334.5	5326.4	5302.2	5245.6	5253.7	5193.0	5148.6	5136.5	5047.6	4978.9
7.5°	5516.3	5508.3	5504.2	5471.9	5411.3	5407.2	5334.5	5269.8	5249.6	5128.4	5023.3
10°	5653.7	5641.6	5649.7	5617.4	5552.7	5540.6	5447.6	5362.8	5342.6	5189.0	5043.5
12.5°	5770.9	5762.9	5775.0	5746.7	5694.2	5682.0	5589.1	5480.0	5455.7	5277.9	5088.0
15°	5900.3	5872.0	5896.2	5884.1	5847.7	5843.7	5758.8	5637.6	5605.2	5391.1	5156.7
17.5°	5969.0	5952.8	5981.1	5985.1	5969.0	5997.3	5916.4	5770.9	5742.7	5496.1	5217.3
20°	6017.5	5993.2	6025.5	6049.8	6061.9	6118.5	6053.8	5912.4	5880.1	5597.2	5273.9
22.5°	6183.1	6130.6	6134.7	6150.8	6158.9	6239.7	6199.3	6061.9	6029.6	5722.4	5342.6
25°	6599.4	6494.3	6425.6	6377.1	6320.6	6389.3	6365.0	6231.6	6203.4	5872.0	5427.4
27.5°	7246.0	7112.6	6975.2	6833.8	6611.5	6583.2	6542.8	6421.6	6389.3	6021.5	5512.3
30°	7981.5	7848.2	7686.5	7460.2	7043.9	6825.7	6732.8	6599.4	6563.0	6154.9	5593.1
32.5°	8713.0	8595.8	8434.1	8159.3	7565.3	7120.7	6922.7	6785.3	6748.9	6300.3	5690.1
35°	9282.8	9210.1	9105.0	8761.5	8082.5	7468.3	7197.5	7031.8	6991.4	6530.7	5867.9
37.5°	9743.5	9691.0	9602.1	9242.4	8458.4	7815.8	7512.7	7322.8	7278.3	6781.3	6057.9
40°	10422.4	10285.0	10212.3	9691.0	8785.7	8131.0	7868.4	7670.3	7621.8	7048.0	6211.4
42.5°	11000.3	10899.3	10810.4	10091.1	9096.9	8401.8	8203.8	8021.9	7957.3	7310.7	6377.1
45°	11097.3	11137.8	11093.3	10289.1	9589.9	8668.5	8543.3	8426.1	8365.4	7666.3	6627.7
47.5°	11101.4	11101.4	10838.7	10402.2	10200.2	8967.6	8907.0	8947.4	8882.7	8118.9	6926.7
50°	10810.4	10862.9	10725.5	10430.5	10361.8	9266.6	9351.5	9569.7	9505.1	8599.8	7250.0
52.5°	10208.3	10382.0	10378.0	10386.1	10127.4	9521.2	9820.3	10317.4	10208.3	9141.4	7593.6
55°	9145.4	9493.0	9804.1	10070.9	9925.4	9674.8	10394.2	11113.5	11000.3	9747.6	7941.1
57.5°	8236.1	8458.4	8846.3	9602.1	9686.9	9808.2	10931.6	11946.0	11845.0	10418.4	8304.8
60°	7197.5	7504.6	7892.6	8967.6	9396.0	9981.9	11521.7	12758.3	12661.3	11097.3	8656.4
62.5°	5601.2	5997.3	6773.2	7993.6	8971.6	10091.1	11986.4	13473.6	13429.2	11739.9	8971.6
65°	3903.9	4255.5	5342.6	6797.4	8296.7	10042.6	12358.2	14112.1	14071.7	12265.3	9193.9
67.5°	2279.3	2687.4	3916.0	5471.9	7104.6	9707.1	12479.5	14488.0	14488.0	12584.5	9254.5
70°	1301.3	1491.2	2582.4	3988.7	5447.6	8781.7	12140.0	14483.9	14552.6	12511.8	9004.0
72.5°	909.3	994.2	1737.7	2683.4	3693.7	7104.6	11250.9	13784.8	13877.7	11824.8	8147.2
75°	707.2	767.8	1224.5	1830.7	2327.8	4825.3	9307.1	11622.7	11869.2	10078.9	6587.3
77.5°	537.5	581.9	715.3	1143.7	1491.2	2772.3	6142.7	7621.8	7638.0	6171.0	3532.1
80°	392.0	436.5	476.9	699.1	792.1	1297.2	2319.7	3184.5	3095.6	2986.5	1911.5
82.5°	234.4	278.8	291.0	379.9	388.0	553.7	812.3	1026.5	986.1	1313.4	897.2
85°	101.0	141.4	149.5	173.8	165.7	226.3	323.3	270.8	242.5	278.8	194.0
87.5°	24.2	40.4	40.4	44.5	36.4	56.6	60.6	44.5	40.4	48.5	48.5
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°	4946.5	4946.5	4946.5	4946.5	4946.5	4946.5	4946.5	4946.5	4946.5	4946.5	4946.5
2.5°	4918.2	4906.1	4910.1	4841.4	4821.2	4801.0	4788.9	4780.8	4772.7	4784.9	4797.0
5°	4954.6	4926.3	4894.0	4793.0	4752.5	4708.1	4675.8	4647.5	4635.3	4635.3	4647.5
7.5°	4982.9	4934.4	4865.7	4732.3	4659.6	4599.0	4546.4	4510.1	4489.9	4489.9	4502.0
10°	4986.9	4918.2	4809.1	4647.5	4550.5	4461.6	4400.9	4360.5	4332.2	4332.2	4340.3
12.5°	5011.2	4918.2	4776.8	4582.8	4461.6	4352.5	4279.7	4219.1	4207.0	4207.0	4215.0
15°	5051.6	4938.4	4756.6	4526.2	4380.7	4255.5	4174.6	4110.0	4085.7	4101.9	4105.9
17.5°	5088.0	4950.6	4720.2	4453.5	4279.7	4142.3	4053.4	3996.8	3964.5	4000.9	4000.9
20°	5112.2	4950.6	4667.7	4360.5	4170.6	4017.0	3932.2	3863.5	3839.2	3883.7	3887.7
22.5°	5148.6	4946.5	4611.1	4267.6	4053.4	3891.7	3806.9	3754.3	3742.2	3790.7	3806.9
25°	5189.0	4954.6	4550.5	4162.5	3924.1	3766.5	3701.8	3677.6	3685.6	3746.3	3766.5
27.5°	5233.5	4970.8	4489.9	4045.3	3782.6	3641.2	3604.8	3616.9	3649.3	3726.1	3750.3
30°	5273.9	4974.8	4405.0	3907.9	3621.0	3487.6	3503.8	3556.3	3604.8	3681.6	3709.9
32.5°	5326.4	4978.9	4316.1	3758.4	3447.2	3350.2	3423.0	3507.8	3556.3	3629.1	3661.4
35°	5455.7	5047.6	4247.4	3612.9	3285.6	3233.0	3354.3	3463.4	3491.7	3556.3	3584.6
37.5°	5605.2	5160.7	4211.0	3463.4	3127.9	3115.8	3269.4	3378.5	3386.6	3427.0	3455.3
40°	5698.2	5209.2	4170.6	3338.1	2986.5	2994.6	3152.2	3237.1	3220.9	3249.2	3269.4
42.5°	5791.1	5225.4	4085.7	3233.0	2853.1	2861.2	2982.5	3043.1	3051.2	3111.8	3140.1
45°	5948.8	5269.8	3992.8	3136.0	2731.9	2703.6	2776.4	2857.2	2962.3	3079.5	3111.8
47.5°	6158.9	5362.8	3895.8	3018.8	2614.7	2521.8	2550.0	2691.5	2800.6	2909.7	2929.9
50°	6373.1	5455.7	3806.9	2877.4	2497.5	2327.8	2339.9	2469.2	2558.1	2643.0	2655.1
52.5°	6583.2	5536.5	3730.1	2744.0	2364.1	2097.4	2145.9	2279.3	2339.9	2380.3	2392.4
55°	6793.4	5605.2	3661.4	2630.9	2210.6	1915.6	1960.0	2085.3	2145.9	2166.1	2174.2
57.5°	7011.6	5686.1	3608.9	2533.9	2036.8	1753.9	1782.2	1871.1	1927.7	1951.9	1943.9
60°	7193.5	5754.8	3580.6	2432.8	1863.0	1604.4	1596.3	1677.1	1758.0	1782.2	1774.1
62.5°	7334.9	5799.2	3536.1	2303.5	1709.5	1454.9	1414.4	1519.5	1604.4	1620.6	1632.7
65°	7411.7	5803.3	3427.0	2137.8	1551.8	1293.2	1264.9	1370.0	1422.5	1438.7	1438.7
67.5°	7399.6	5738.6	3212.8	1915.6	1406.4	1147.7	1123.5	1188.1	1264.9	1277.0	1264.9
70°	7149.0	5471.9	2869.3	1681.2	1232.6	1018.4	973.9	1038.6	1111.4	1066.9	1046.7
72.5°	6437.8	4780.8	2364.1	1422.5	1038.6	856.8	836.5	901.2	905.2	913.3	893.1
75°	5079.9	3560.4	1770.1	1107.3	840.6	719.3	715.3	703.2	719.3	751.7	727.4
77.5°	2667.2	1778.2	957.8	678.9	610.2	577.9	549.6	545.6	594.1	614.3	590.0
80°	1446.8	998.2	549.6	408.2	371.8	375.8	412.2	404.1	456.7	468.8	448.6
82.5°	630.4	472.8	270.8	246.5	246.5	242.5	254.6	282.9	339.5	339.5	270.8
85°	137.4	117.2	105.1	121.2	137.4	137.4	137.4	137.4	97.0	52.5	36.4
87.5°	44.5	44.5	44.5	48.5	52.5	52.5	44.5	32.3	20.2	4.0	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)