

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: P841728

Luminaire Tested: **ARCH4-220-722-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841728
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: ARCH4-220-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 870mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28673 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 221.8
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



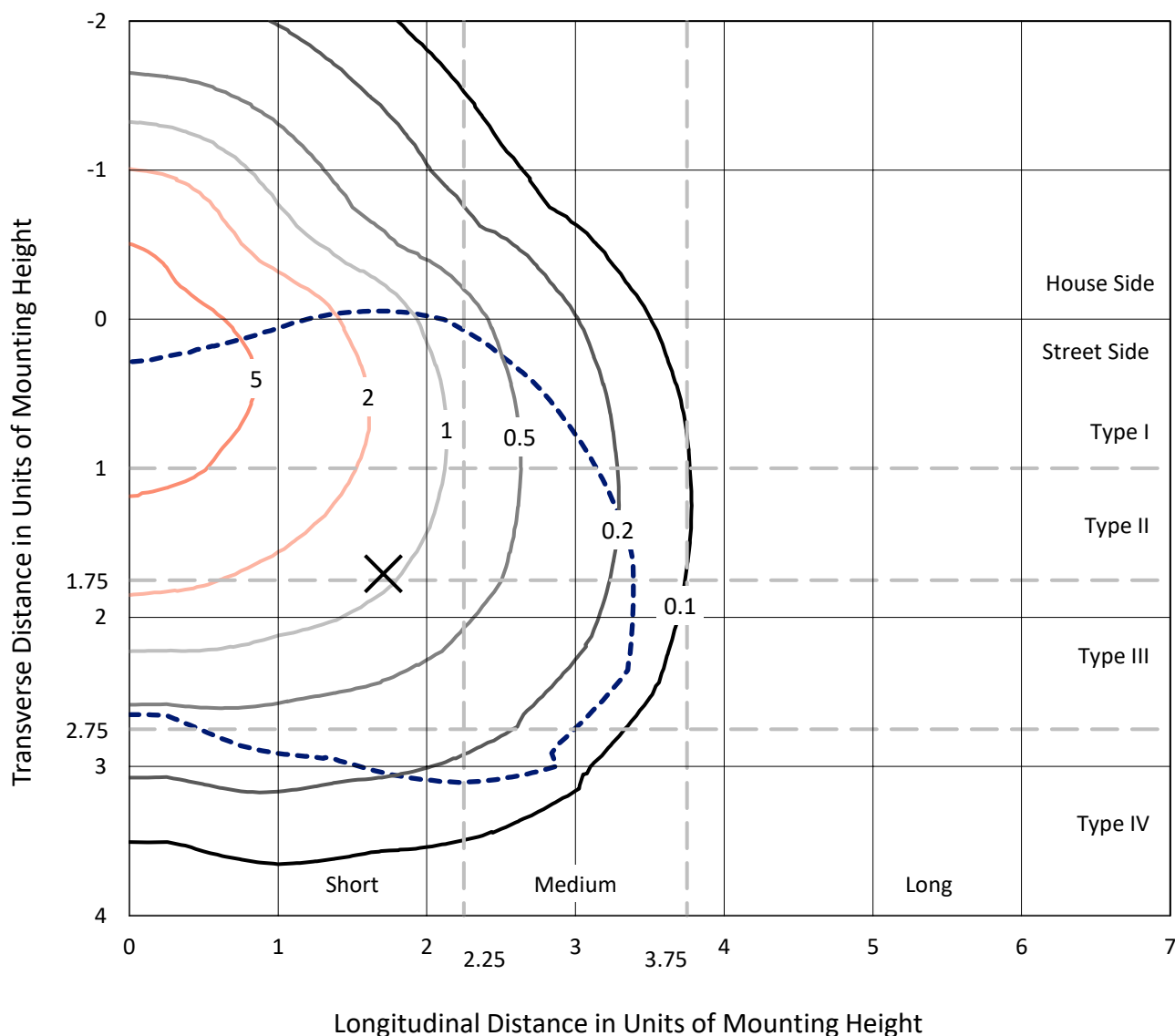
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

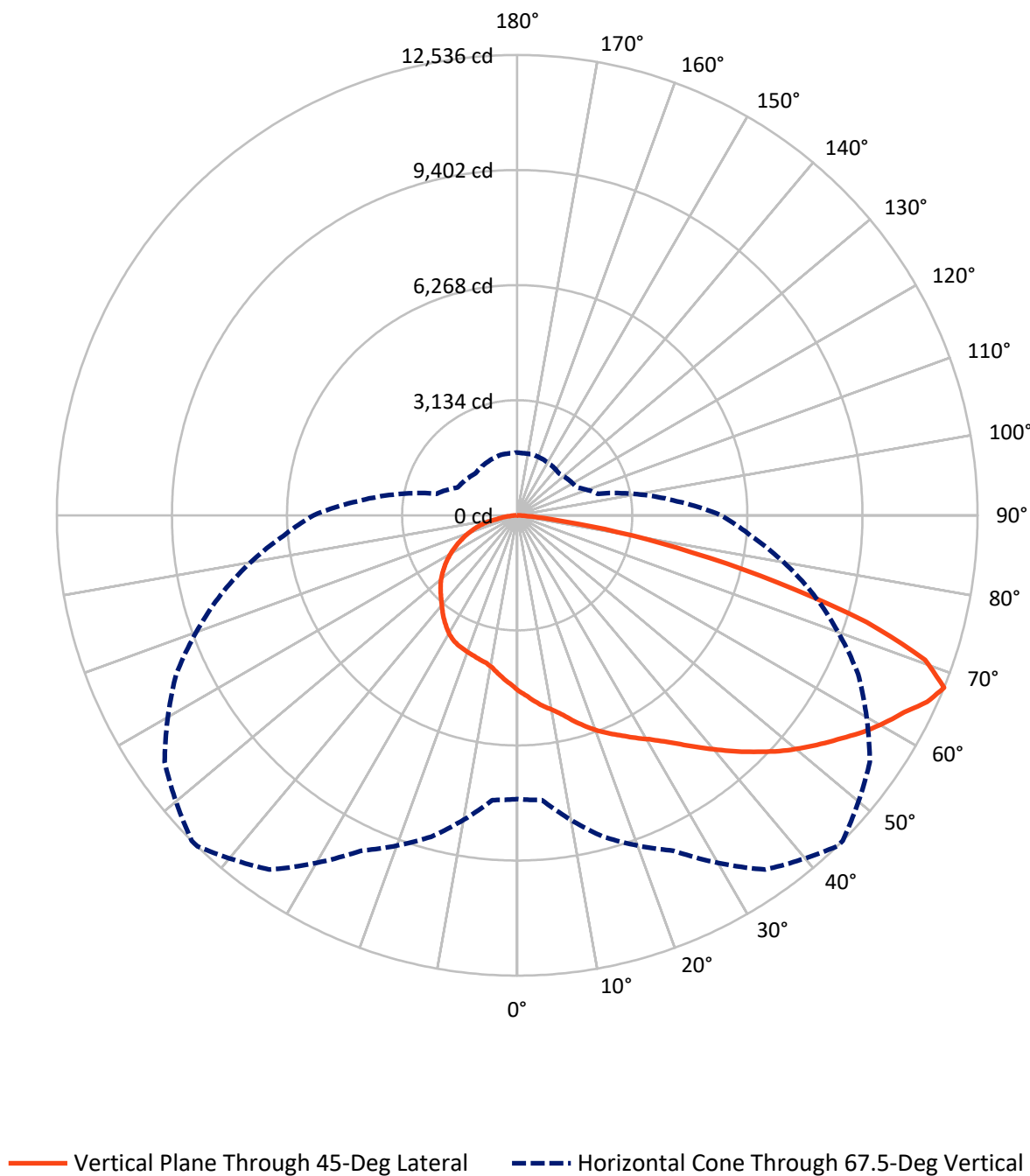


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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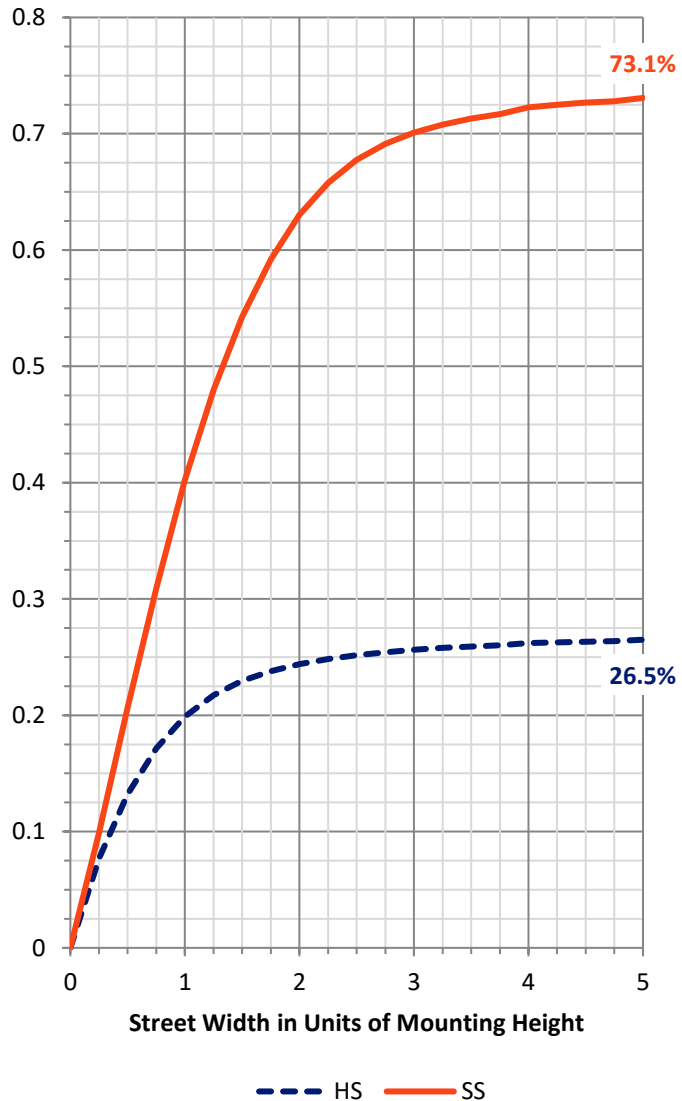
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7660.0	0.0	7660.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	21013.0	0.0	21013.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	28673.0	0.0	28673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.9	1.6
10°-20°	1414.4	4.9
20°-30°	2441.4	8.5
30°-40°	3600.2	12.6
40°-50°	4877.6	17.0
50°-60°	5961.6	20.8
60°-70°	6148.5	21.4
70°-80°	3367.7	11.7
80°-90°	403.6	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°	28673.0	100.0
0°-180°	28673.0	100.0

Coefficient of Utilization



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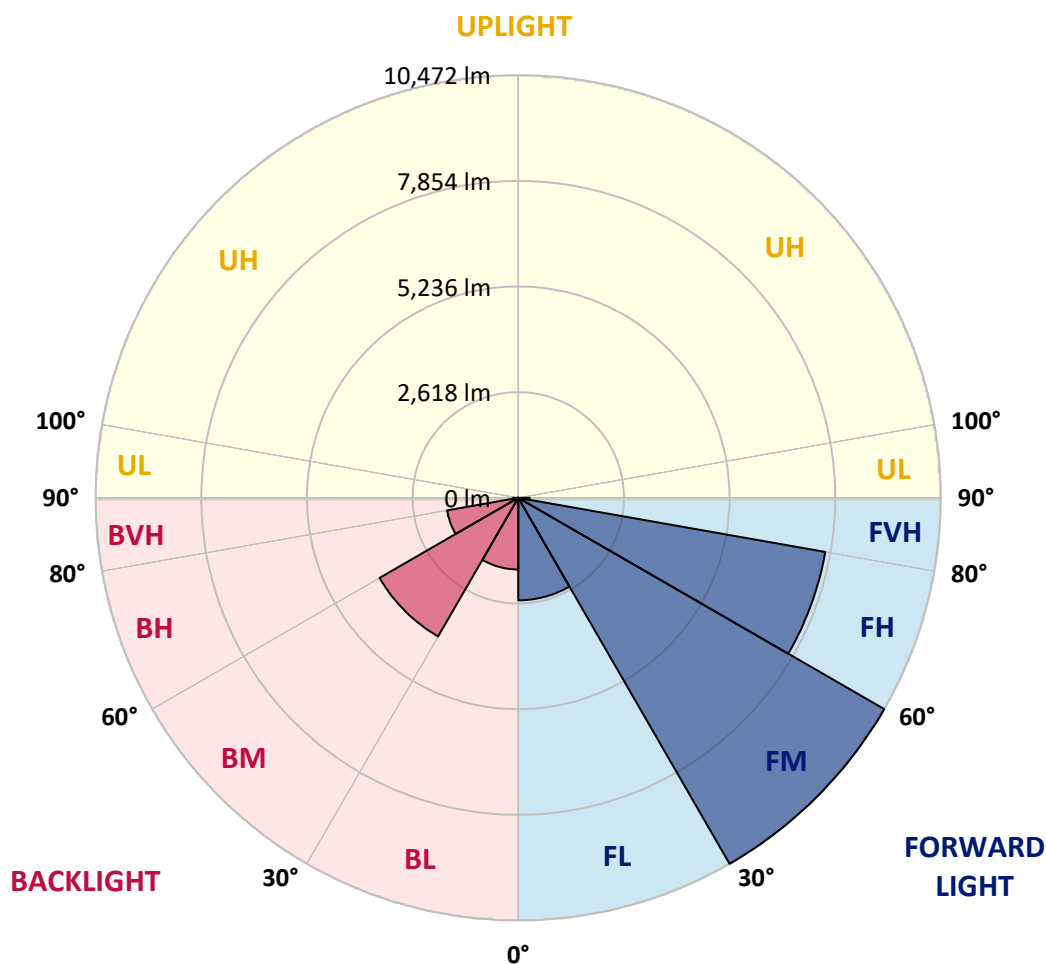
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2538.3	8.9			
FM	(30°-60°)	10471.7	36.5			
FH	(60°-80°)	7724.9	26.9			G4/12000
FVH	(80°-90°)	278.1	1.0			G3/500
BL	(0°-30°)	1775.3	6.2	B3/2500		
BM	(30°-60°)	3967.8	13.8	B3/5000		
BH	(60°-80°)	1791.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	125.6	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4782.1	4782.1	4782.1	4782.1	4782.1	4782.1	4782.1	4782.1	4782.1	4782.1	4782.1
2.5°	4991.5	4987.2	4995.9	4965.4	4926.1	4921.7	4921.7	4895.6	4865.0	4803.9	4755.9
5°	5227.2	5218.4	5222.8	5179.2	5126.8	5100.6	5096.3	5039.5	4969.7	4873.7	4786.5
7.5°	5445.3	5436.6	5432.2	5384.2	5305.7	5262.1	5257.7	5174.8	5091.9	4943.6	4817.0
10°	5650.4	5641.7	5632.9	5567.5	5471.5	5406.1	5397.3	5292.6	5187.9	5004.6	4843.2
12.5°	5912.2	5894.7	5886.0	5807.5	5667.9	5598.0	5584.9	5445.3	5314.4	5091.9	4895.6
15°	6187.1	6174.0	6160.9	6086.7	5929.6	5838.0	5816.2	5641.7	5462.8	5205.3	4974.1
17.5°	6392.1	6379.1	6379.1	6313.6	6169.6	6064.9	6047.5	5838.0	5615.5	5310.1	5035.2
20°	6518.7	6505.6	6518.7	6479.4	6370.3	6283.1	6265.6	6034.4	5768.2	5406.1	5087.5
22.5°	6610.3	6597.2	6619.0	6601.6	6523.0	6470.7	6457.6	6230.7	5925.3	5506.4	5139.9
25°	6771.8	6771.8	6771.8	6741.2	6667.0	6649.6	6649.6	6453.2	6126.0	5637.3	5218.4
27.5°	7094.6	7077.2	7055.4	6968.1	6841.6	6837.2	6863.4	6680.1	6357.2	5807.5	5314.4
30°	7570.2	7561.5	7478.6	7295.3	7081.5	7059.7	7077.2	6924.5	6605.9	5986.4	5423.5
32.5°	8185.4	8154.9	7984.7	7709.8	7404.4	7304.1	7339.0	7177.5	6867.7	6169.6	5528.2
35°	8621.8	8630.5	8508.3	8259.6	7897.5	7631.3	7657.5	7461.1	7151.4	6374.7	5659.1
37.5°	9123.5	9154.1	8970.8	8783.2	8447.2	7993.5	8019.6	7753.5	7435.0	6632.1	5798.7
40°	9817.3	9756.2	9446.4	9223.9	8853.0	8373.1	8394.9	8080.7	7762.2	6876.5	5960.2
42.5°	10397.6	10288.5	9913.3	9629.7	9184.6	8774.5	8796.3	8434.1	8093.8	7147.0	6139.1
45°	11231.0	10929.9	10388.9	10249.3	9525.0	9167.2	9189.0	8809.4	8442.9	7435.0	6331.1
47.5°	11715.3	11235.3	10890.7	10816.5	9900.2	9573.0	9599.1	9206.4	8818.1	7762.2	6531.8
50°	11684.8	11375.0	11274.6	11091.4	10231.8	9952.6	9978.7	9616.6	9197.7	8085.1	6723.8
52.5°	11484.1	11540.8	11488.4	11183.0	10563.4	10319.1	10349.6	10022.4	9586.0	8386.1	6902.6
55°	11793.8	11833.1	11732.8	11331.3	10929.9	10685.6	10720.5	10450.0	9970.0	8652.3	7055.4
57.5°	12164.7	12025.1	11924.7	11593.1	11309.5	11082.6	11121.9	10886.3	10301.6	8866.1	7173.2
60°	12147.3	11854.9	11955.3	11610.6	11567.0	11449.1	11484.1	11244.1	10554.7	9023.2	7221.2
62.5°	11252.8	11095.7	11601.9	11484.1	11776.4	11776.4	11820.0	11462.2	10707.4	9088.6	7195.0
65°	9699.5	9708.2	10598.3	11087.0	12025.1	12225.8	12260.7	11597.5	10620.1	8896.6	6950.6
67.5°	7727.3	7784.0	9062.5	10079.1	11776.4	12531.2	12535.6	11719.7	10244.9	8355.6	6383.4
70°	5654.8	5698.4	7208.1	8442.9	10602.7	11854.9	11785.1	11375.0	9429.0	7413.1	5497.7
72.5°	3822.2	3861.5	5414.8	6483.8	8700.3	10096.5	9943.8	10052.9	8037.1	6091.1	4420.0
75°	2569.9	2617.9	3852.7	4638.1	6400.9	7666.2	7325.9	7613.9	6217.6	4611.9	3224.4
77.5°	1618.8	1649.3	2447.8	3041.2	4372.0	5218.4	4878.1	4882.5	3582.2	2482.7	1732.2
80°	1029.7	1038.5	1483.5	1754.0	2530.7	3137.2	2775.0	2255.8	1614.4	1317.7	1034.1
82.5°	597.8	584.7	885.7	990.5	1204.3	1191.2	986.1	933.7	706.8	658.8	528.0
85°	240.0	222.5	388.3	362.1	366.5	388.3	288.0	288.0	231.3	178.9	130.9
87.5°	48.0	48.0	52.4	48.0	48.0	52.4	39.3	39.3	34.9	34.9	34.9
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°	4782.1	4782.1	4782.1	4782.1	4782.1	4782.1	4782.1	4782.1	4782.1	4782.1	4782.1
2.5°	4747.2	4738.5	4716.7	4659.9	4629.4	4611.9	4585.8	4577.0	4572.7	4577.0	4590.1
5°	4760.3	4729.8	4668.7	4577.0	4516.0	4476.7	4433.1	4415.6	4402.5	4402.5	4415.6
7.5°	4769.0	4721.0	4616.3	4481.0	4393.8	4332.7	4280.3	4258.5	4254.2	4267.3	4271.6
10°	4773.4	4703.6	4555.2	4385.1	4271.6	4193.1	4140.7	4127.6	4140.7	4166.9	4171.3
12.5°	4803.9	4707.9	4520.3	4319.6	4184.3	4105.8	4066.5	4066.5	4101.4	4149.4	4153.8
15°	4856.3	4738.5	4502.9	4267.3	4127.6	4057.8	4044.7	4066.5	4118.9	4193.1	4201.8
17.5°	4895.6	4755.9	4463.6	4197.4	4053.5	4009.8	4031.6	4084.0	4158.2	4258.5	4267.3
20°	4921.7	4755.9	4406.9	4114.5	3979.3	3970.5	4031.6	4114.5	4193.1	4310.9	4324.0
22.5°	4947.9	4747.2	4341.4	4014.2	3896.4	3922.6	4036.0	4140.7	4219.3	4345.8	4367.6
25°	4995.9	4760.3	4276.0	3913.8	3809.1	3883.3	4031.6	4158.2	4241.1	4372.0	4406.9
27.5°	5061.4	4790.8	4228.0	3822.2	3721.8	3822.2	4001.1	4153.8	4241.1	4367.6	4406.9
30°	5131.2	4825.7	4171.3	3721.8	3621.5	3734.9	3935.6	4105.8	4206.2	4324.0	4372.0
32.5°	5205.3	4865.0	4123.3	3612.8	3499.3	3617.1	3839.7	4031.6	4140.7	4249.8	4302.2
35°	5305.7	4934.8	4097.1	3525.5	3390.2	3495.0	3717.5	3935.6	4053.5	4153.8	4214.9
37.5°	5427.9	5022.1	4084.0	3438.2	3272.4	3359.7	3586.6	3817.8	3944.4	4027.3	4084.0
40°	5567.5	5131.2	4079.6	3355.3	3154.6	3220.1	3451.3	3682.6	3804.7	3870.2	3918.2
42.5°	5724.6	5253.3	4070.9	3272.4	3036.8	3089.2	3320.4	3547.3	3652.0	3708.8	3752.4
45°	5890.4	5375.5	4053.5	3172.1	2910.3	2971.4	3185.2	3385.9	3495.0	3543.0	3590.9
47.5°	6056.2	5497.7	4018.5	3058.6	2796.8	2853.6	3041.2	3215.7	3303.0	3346.6	3394.6
50°	6217.6	5606.8	3935.6	2927.7	2679.0	2731.4	2875.4	2993.2	3058.6	3093.5	3141.5
52.5°	6361.6	5680.9	3817.8	2775.0	2561.2	2587.4	2683.4	2783.7	2836.1	2840.5	2884.1
55°	6483.8	5720.2	3647.7	2617.9	2434.7	2439.1	2491.4	2569.9	2591.8	2574.3	2604.9
57.5°	6553.6	5698.4	3460.1	2456.5	2303.8	2286.3	2325.6	2364.9	2369.2	2325.6	2356.2
60°	6571.0	5598.0	3215.7	2295.1	2172.9	2124.9	2138.0	2129.3	2120.5	2103.1	2129.3
62.5°	6483.8	5384.2	2945.2	2138.0	2033.3	1959.1	1954.7	1950.4	1963.5	1967.8	1972.2
65°	6165.3	4982.8	2622.3	1976.5	1884.9	1784.6	1780.2	1832.6	1850.0	1823.8	1832.6
67.5°	5550.0	4367.6	2268.9	1788.9	1697.3	1610.0	1644.9	1675.5	1706.0	1697.3	1706.0
70°	4677.4	3586.6	1946.0	1579.5	1492.2	1444.2	1483.5	1509.7	1514.0	1505.3	1514.0
72.5°	3678.2	2801.2	1644.9	1365.7	1287.2	1265.3	1313.3	1335.2	1374.4	1391.9	1396.2
75°	2657.2	2068.2	1348.2	1134.4	1069.0	1069.0	1112.6	1151.9	1186.8	1165.0	1151.9
77.5°	1483.5	1234.8	968.6	781.0	794.1	855.2	872.6	916.3	951.2	946.8	938.1
80°	898.8	772.3	654.5	506.1	501.8	549.8	663.2	737.4	754.8	715.6	711.2
82.5°	466.9	405.8	349.1	283.6	314.2	366.5	384.0	462.5	510.5	493.0	514.9
85°	117.8	113.4	126.5	130.9	161.4	178.9	196.3	231.3	152.7	74.2	74.2
87.5°	34.9	34.9	43.6	43.6	56.7	69.8	65.4	65.4	34.9	4.4	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)