

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: P841254

Luminaire Tested: **ARCH4-150-740-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-150-740-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25997 lumens
Efficiency: N/A
Efficacy: 172.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

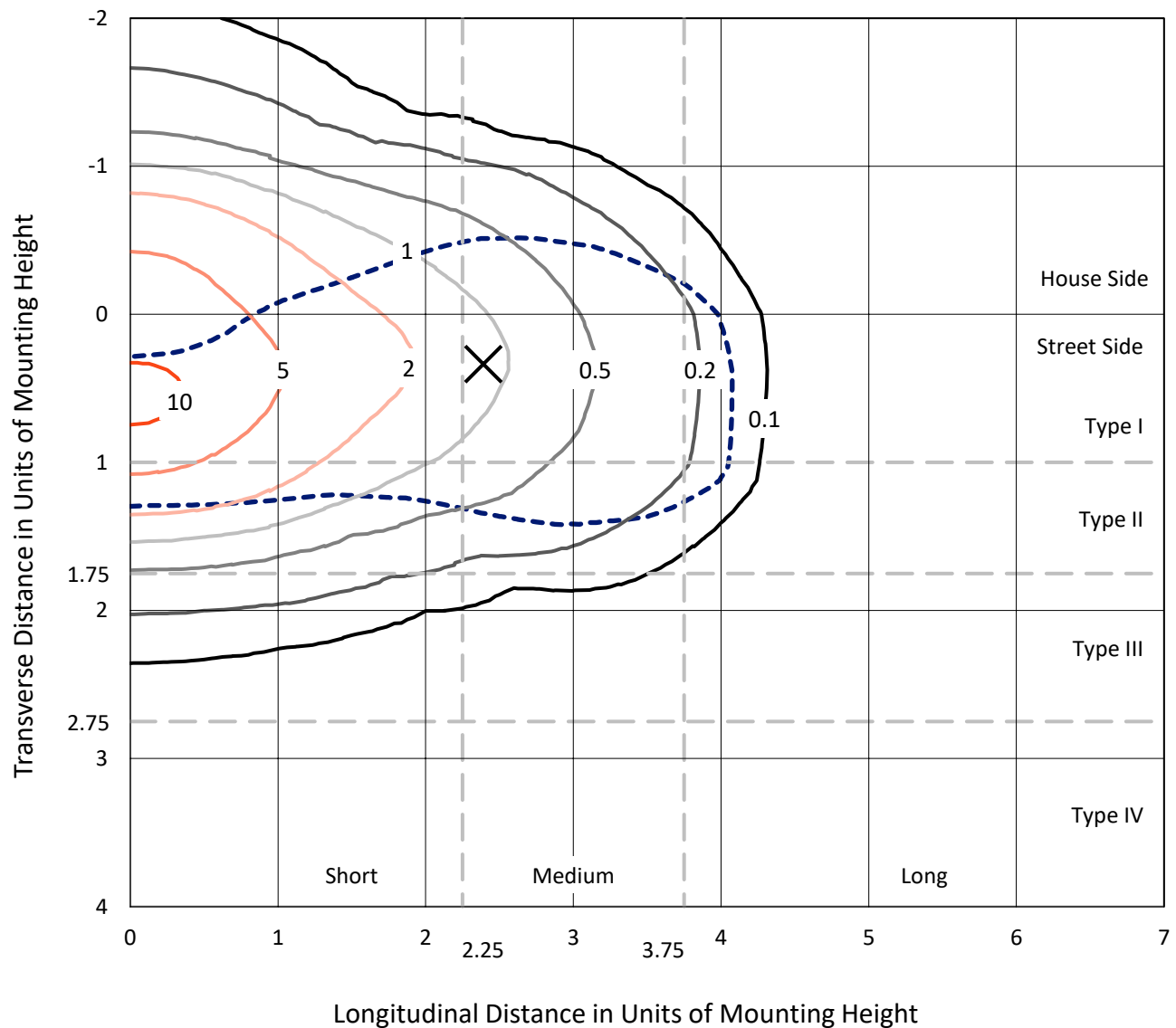
Input Watts (W): 150.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

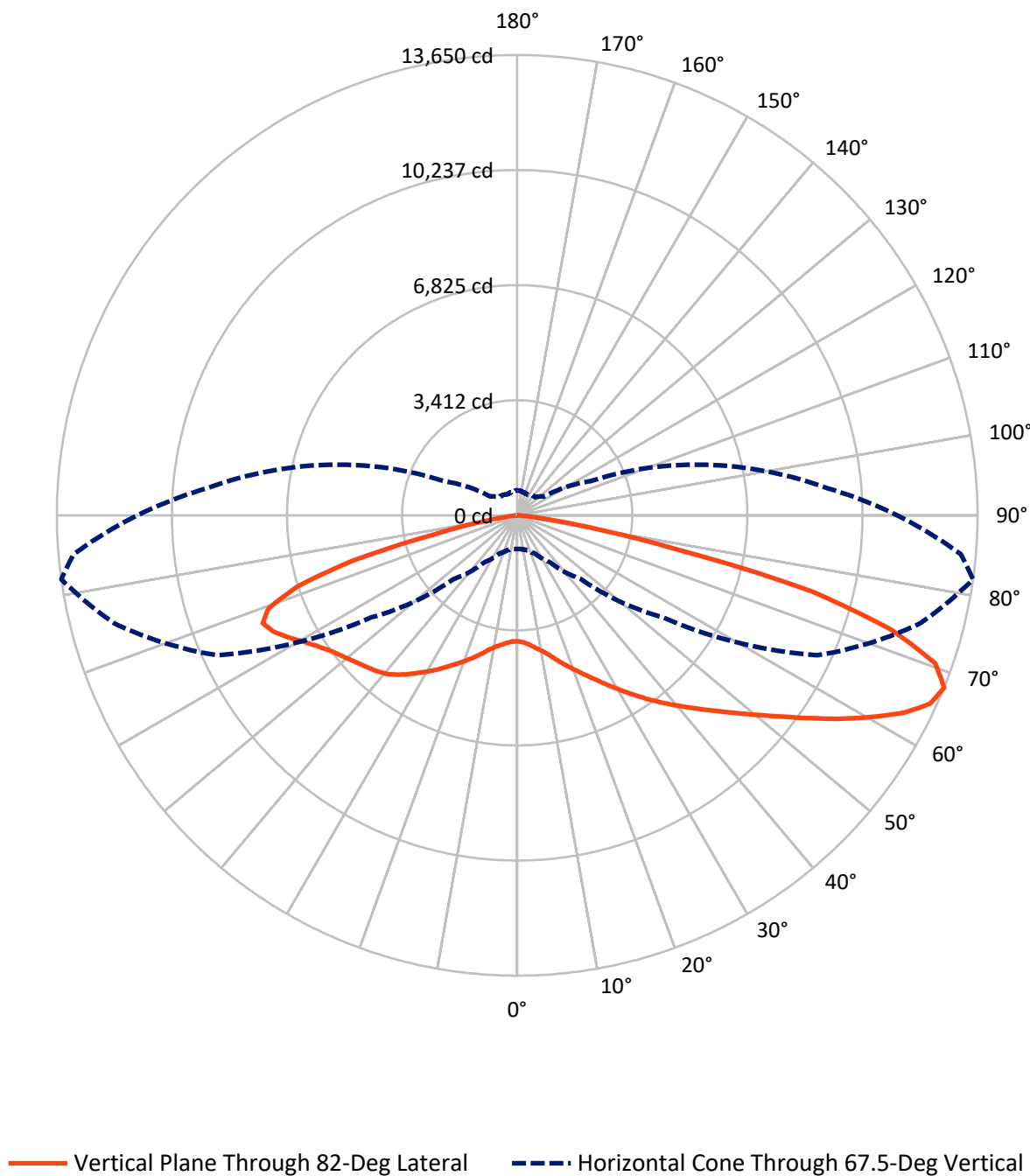
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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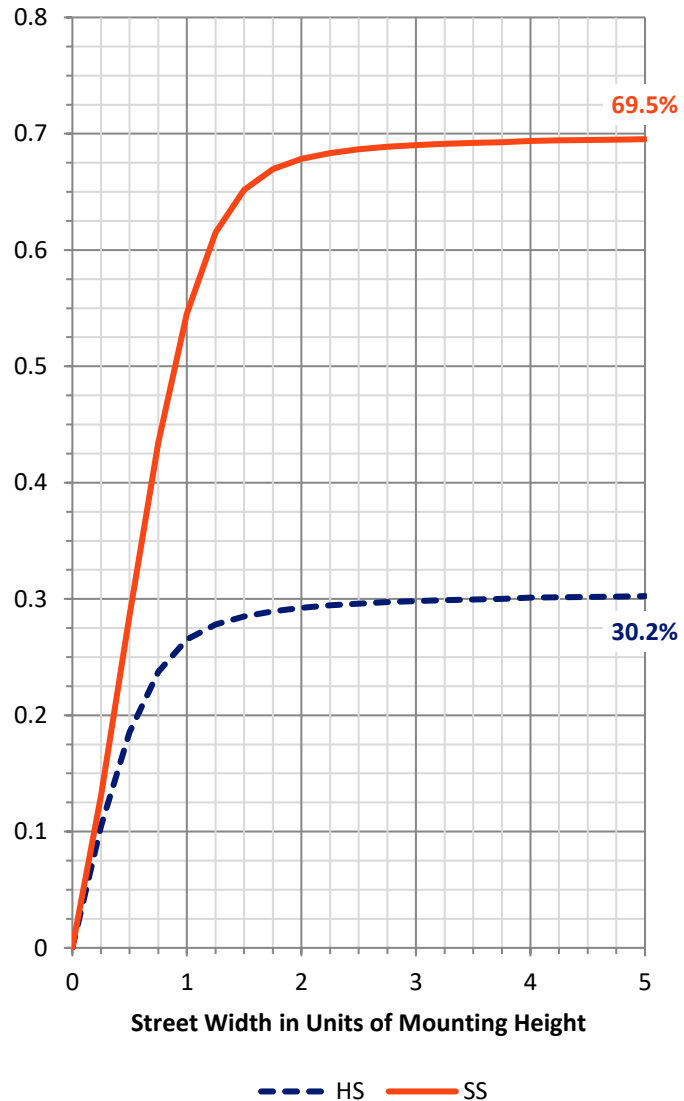
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7917.1	0.0	7917.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	18079.9	0.0	18079.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	25997.0	0.0	25997.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.2	1.5
10°-20°	1391.1	5.4
20°-30°	2795.9	10.8
30°-40°	4391.9	16.9
40°-50°	5350.2	20.6
50°-60°	5055.3	19.4
60°-70°	4174.5	16.1
70°-80°	2273.2	8.7
80°-90°	178.7	0.7
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°	25997.0	100.0
0°-180°	25997.0	100.0

Coefficient of Utilization



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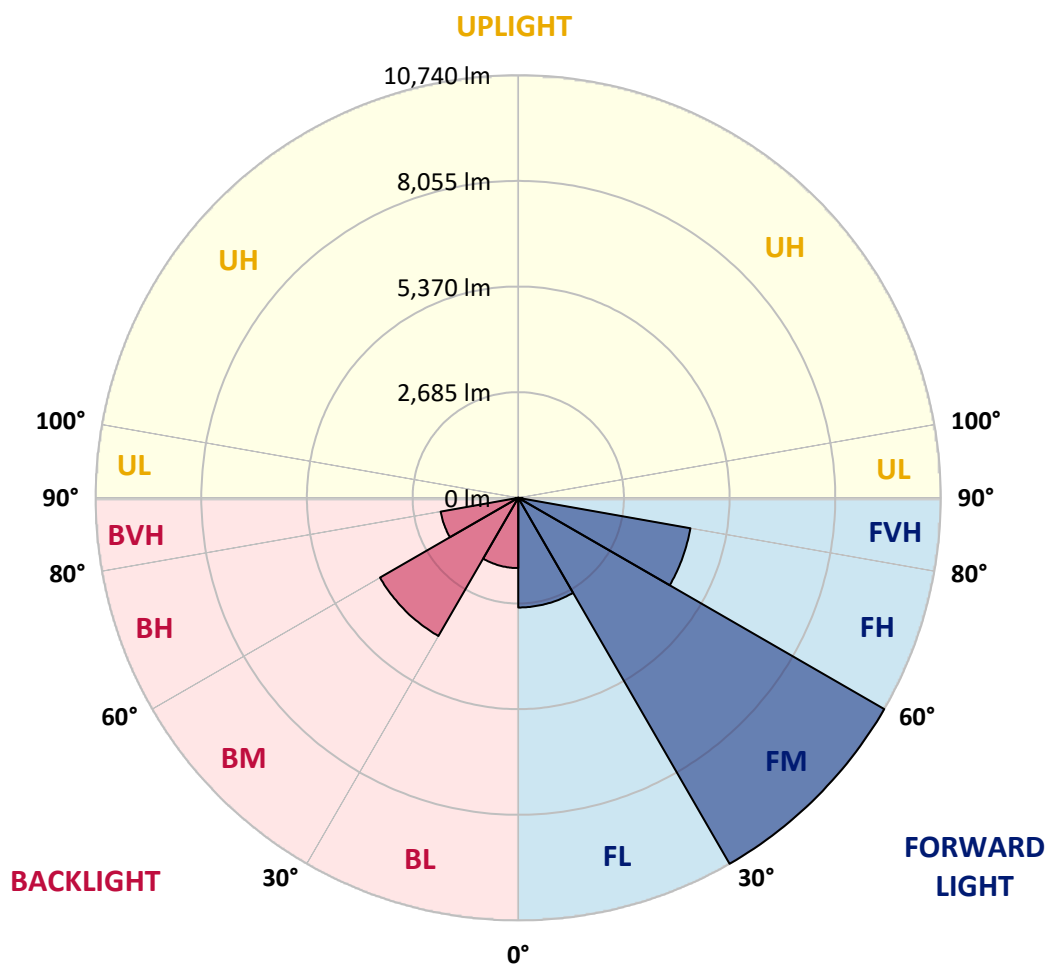
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2787.8	10.7			
FM	(30°-60°)	10740.5	41.3			
FH	(60°-80°)	4443.8	17.1			G2/5000
FVH	(80°-90°)	107.7	0.4			G2/225
BL	(0°-30°)	1785.4	6.9	B3/2500		
BM	(30°-60°)	4056.9	15.6	B3/5000		
BH	(60°-80°)	2003.9	7.7	B3/2500		G3/2500
BVH	(80°-90°)	71.0	0.3			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3737.1	3737.1	3737.1	3737.1	3737.1	3737.1	3737.1	3737.1	3737.1	3737.1	3737.1
2.5°	3906.9	3906.9	3937.1	3937.1	3910.7	3869.2	3857.8	3812.6	3771.0	3771.0	3774.8
5°	4280.6	4276.9	4299.5	4269.3	4205.1	4122.1	4065.5	3967.3	3884.3	3857.8	3854.1
7.5°	4737.4	4733.6	4744.9	4695.9	4575.1	4439.2	4325.9	4167.4	4031.5	3974.9	3959.8
10°	5247.0	5243.2	5231.9	5148.8	4986.5	4775.1	4605.3	4386.3	4182.5	4091.9	4073.0
12.5°	5832.1	5824.5	5798.1	5677.3	5454.6	5182.8	4937.4	4654.3	4382.5	4258.0	4216.5
15°	6485.1	6473.8	6424.7	6277.5	5979.3	5635.8	5318.7	4956.3	4624.1	4461.8	4405.2
17.5°	7172.1	7172.1	7096.6	6877.7	6545.5	6119.0	5726.4	5265.9	4877.0	4677.0	4609.0
20°	7870.5	7866.7	7772.3	7508.1	7115.5	6624.8	6126.5	5620.7	5137.5	4895.9	4812.9
22.5°	8606.6	8599.0	8482.0	8180.0	7711.9	7157.0	6575.7	5971.7	5424.4	5133.7	5028.0
25°	9452.1	9440.8	9297.3	8927.4	8372.5	7745.9	7081.5	6383.2	5752.8	5398.0	5273.4
27.5°	10350.5	10335.4	10165.5	9735.2	9127.5	8372.5	7640.2	6858.8	6115.2	5692.4	5552.7
30°	11150.8	11139.4	10954.5	10512.8	9814.5	8995.4	8172.4	7334.4	6496.4	6005.7	5832.1
32.5°	11754.7	11754.7	11588.6	11154.5	10429.8	9591.8	8708.5	7783.6	6892.8	6341.7	6137.8
35°	12120.9	12132.2	11988.8	11641.5	10958.3	10154.2	9263.4	8312.1	7315.6	6700.3	6481.3
37.5°	12173.7	12211.5	12128.4	11894.4	11324.4	10622.3	9806.9	8821.7	7753.4	7062.7	6817.3
40°	11928.4	11954.8	11958.6	11868.0	11475.4	10958.3	10286.3	9361.5	8217.7	7443.9	7160.8
42.5°	11437.7	11456.5	11490.5	11516.9	11365.9	11105.5	10652.5	9863.6	8712.2	7832.7	7500.5
45°	10803.5	10799.7	10856.3	10969.6	10962.0	11022.4	10856.3	10320.3	9225.6	8274.4	7878.0
47.5°	9856.0	9837.1	10037.2	10293.9	10422.2	10705.3	10860.1	10678.9	9784.3	8761.3	8308.3
50°	8372.5	8353.6	8791.5	9395.5	9773.0	10203.3	10652.5	10894.1	10369.4	9308.7	8776.4
52.5°	6568.2	6549.3	7104.2	8161.1	8984.0	9610.6	10233.5	10943.2	10924.3	9920.2	9304.9
55°	4884.6	4869.5	5409.3	6553.1	7885.6	8923.6	9720.1	10814.8	11445.2	10622.3	9946.6
57.5°	3442.6	3435.1	3903.1	4850.6	6473.8	8085.6	9225.6	10565.7	11924.6	11384.8	10671.4
60°	2415.9	2404.5	2744.3	3476.6	4895.9	6821.1	8734.9	10233.5	12283.2	12136.0	11441.4
62.5°	1626.9	1619.4	1861.0	2472.5	3476.6	5250.8	7991.3	10010.8	12487.0	12891.0	12219.0
65°	1234.4	1230.6	1340.1	1676.0	2461.2	3771.0	6809.7	9984.4	12513.5	13457.2	12879.6
67.5°	996.5	1000.3	1060.7	1253.2	1702.4	2680.1	5280.9	9818.3	12373.8	13649.7	13200.5
70°	815.4	815.4	841.8	970.1	1257.0	1808.1	3688.0	9063.3	11985.0	13147.6	12819.2
72.5°	622.8	626.6	709.7	785.2	947.5	1268.3	2363.0	7500.5	11067.7	11592.4	11343.3
75°	494.5	490.7	539.8	645.5	736.1	906.0	1449.5	5379.1	9418.1	9059.5	8901.0
77.5°	354.8	351.1	388.8	479.4	558.7	641.7	864.4	2714.1	5122.4	4707.2	4590.2
80°	241.6	234.0	268.0	332.2	369.9	377.5	422.8	1041.8	2234.7	2106.3	2079.9
82.5°	124.6	124.6	143.4	188.7	192.5	196.3	188.7	336.0	739.9	690.8	660.6
85°	49.1	49.1	52.8	64.2	64.2	67.9	67.9	86.8	79.3	75.5	71.7
87.5°	3.8	3.8	7.5	7.5	11.3	11.3	11.3	15.1	18.9	18.9	18.9
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°	3737.1	3737.1	3737.1	3737.1	3737.1	3737.1	3737.1	3737.1	3737.1	3737.1	3737.1
2.5°	3767.3	3752.2	3703.1	3691.8	3684.2	3672.9	3676.7	3650.2	3638.9	3642.7	3627.6
5°	3835.2	3808.8	3748.4	3722.0	3714.4	3703.1	3714.4	3695.5	3676.7	3684.2	3676.7
7.5°	3929.6	3891.8	3816.3	3789.9	3786.1	3774.8	3789.9	3774.8	3759.7	3767.3	3752.2
10°	4027.7	3978.6	3895.6	3869.2	3869.2	3865.4	3880.5	3857.8	3842.7	3846.5	3839.0
12.5°	4171.2	4107.0	4016.4	3993.7	3982.4	3993.7	3997.5	3967.3	3940.9	3944.7	3933.3
15°	4344.8	4273.1	4174.9	4141.0	4133.4	4129.6	4114.5	4076.8	4042.8	4039.0	4027.7
17.5°	4533.5	4442.9	4325.9	4292.0	4258.0	4246.7	4208.9	4159.8	4107.0	4107.0	4091.9
20°	4714.7	4612.8	4473.1	4424.1	4375.0	4329.7	4265.5	4186.3	4118.3	4107.0	4091.9
22.5°	4911.0	4790.2	4627.9	4556.2	4469.4	4378.8	4269.3	4163.6	4076.8	4057.9	4046.6
25°	5130.0	4979.0	4786.5	4680.8	4541.1	4401.4	4239.1	4103.2	4001.3	3971.1	3963.5
27.5°	5371.5	5190.4	4956.3	4801.5	4597.7	4378.8	4171.2	4008.8	3884.3	3846.5	3835.2
30°	5616.9	5401.7	5111.1	4884.6	4597.7	4307.1	4046.6	3857.8	3714.4	3661.6	3654.0
32.5°	5862.3	5620.7	5250.8	4929.9	4552.4	4186.3	3884.3	3661.6	3499.2	3435.1	3450.2
35°	6156.7	5862.3	5379.1	4948.8	4476.9	4039.0	3699.3	3438.8	3272.8	3216.1	3227.5
37.5°	6462.5	6103.9	5481.0	4933.7	4371.2	3872.9	3491.7	3238.8	3031.2	2933.0	2944.3
40°	6726.7	6322.8	5552.7	4880.8	4235.3	3684.2	3287.9	2955.7	2668.8	2574.4	2563.1
42.5°	6975.8	6485.1	5590.5	4801.5	4080.6	3465.3	2997.2	2570.6	2283.8	2166.7	2170.5
45°	7236.3	6643.7	5575.4	4695.9	3888.0	3208.6	2623.5	2193.2	1940.2	1834.6	1838.3
47.5°	7534.5	6813.5	5560.3	4582.6	3654.0	2876.4	2264.9	1861.0	1642.0	1566.5	1559.0
50°	7851.6	7002.3	5541.4	4442.9	3393.5	2506.5	1910.1	1551.4	1366.5	1317.4	1306.1
52.5°	8210.2	7206.1	5530.1	4276.9	3080.2	2113.9	1593.0	1279.7	1155.1	1121.1	1117.3
55°	8640.5	7443.9	5545.2	4076.8	2702.8	1744.0	1325.0	1102.2	1019.2	1000.3	996.5
57.5°	9165.2	7749.7	5590.5	3842.7	2306.4	1423.1	1128.7	992.8	939.9	924.8	924.8
60°	9735.2	8097.0	5673.5	3578.5	1910.1	1174.0	1000.3	906.0	883.3	902.2	902.2
62.5°	10350.5	8504.6	5820.7	3257.7	1540.1	992.8	898.4	834.2	819.1	856.9	860.7
65°	10920.5	8901.0	5915.1	2872.6	1223.0	860.7	819.1	762.5	770.1	807.8	804.0
67.5°	11271.6	9229.4	5783.0	2389.5	970.1	762.5	736.1	687.0	705.9	736.1	739.9
70°	11056.4	9044.4	5130.0	1804.4	758.7	664.4	645.5	615.3	630.4	668.1	683.2
72.5°	10003.2	8100.7	3990.0	1219.3	611.5	558.7	566.2	551.1	570.0	604.0	637.9
75°	8119.6	6122.7	2676.3	781.4	483.2	475.6	486.9	475.6	483.2	517.1	536.0
77.5°	4239.1	2985.9	1332.5	486.9	358.6	369.9	388.8	392.6	415.2	422.8	430.3
80°	1978.0	1343.8	554.9	271.8	237.8	260.5	298.2	302.0	309.5	320.9	324.6
82.5°	645.5	403.9	256.7	147.2	135.9	147.2	192.5	230.3	234.0	256.7	256.7
85°	67.9	41.5	56.6	60.4	52.8	64.2	86.8	83.0	37.7	22.6	22.6
87.5°	18.9	15.1	18.9	18.9	15.1	15.1	11.3	3.8	0.0	0.0	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)