

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: P841726

Luminaire Tested: **ARCH4-220-722-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841726
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: ARCH4-220-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 870mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29413 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

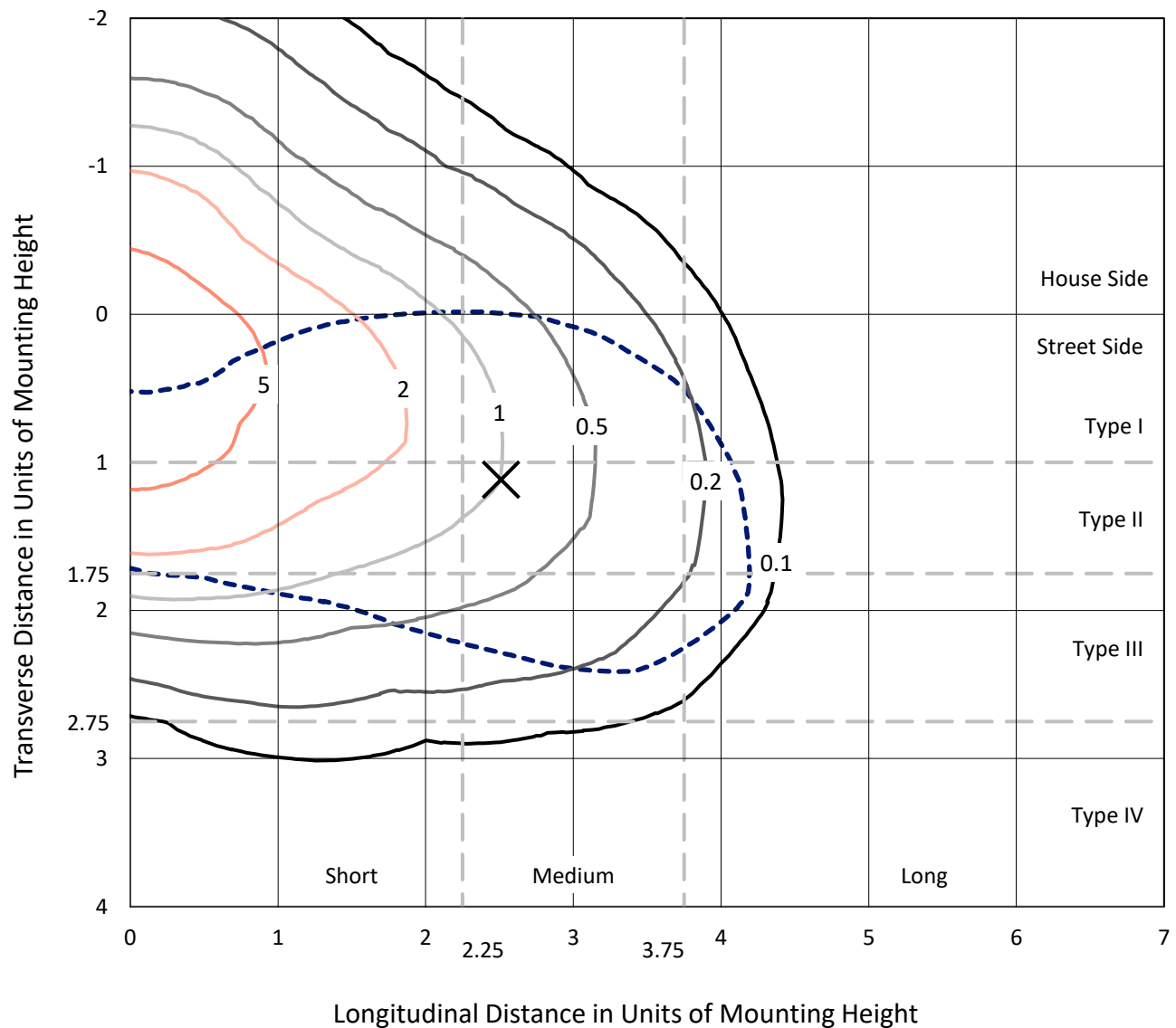
Input Watts (W): 221.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

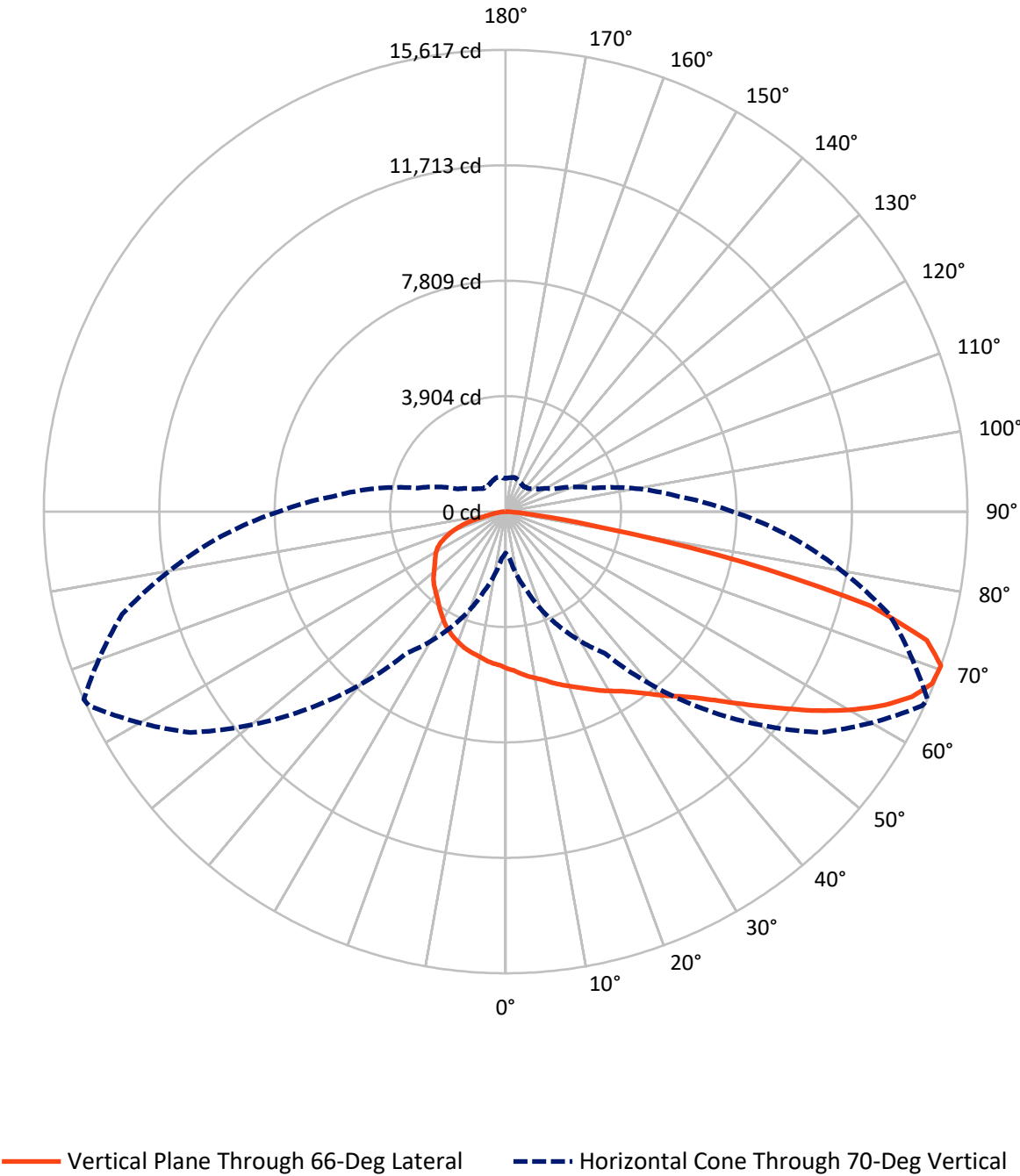
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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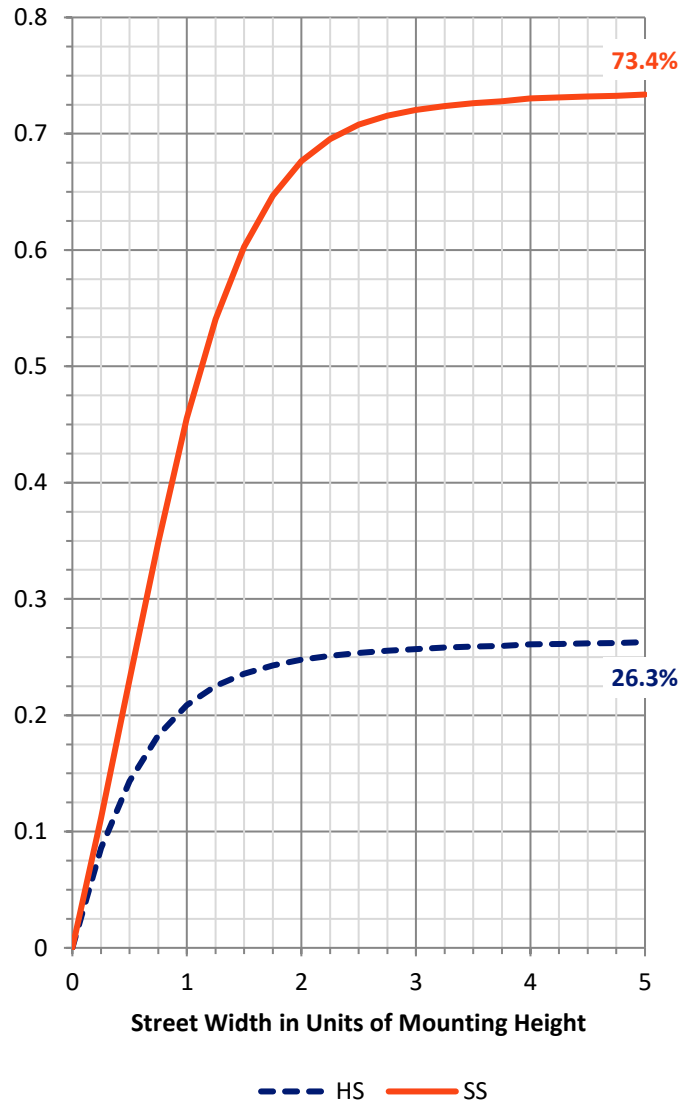
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7793.8	0.0	7793.8
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	21619.2	0.0	21619.2
	% Fixture	73.5	0.0	73.5
Total	Lumens	29413.0	0.0	29413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.1	1.7
10°-20°	1530.0	5.2
20°-30°	2564.9	8.7
30°-40°	3840.5	13.1
40°-50°	5134.7	17.5
50°-60°	5994.9	20.4
60°-70°	5961.0	20.3
70°-80°	3529.0	12.0
80°-90°	347.8	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°	29413.0	100.0
0°-180°	29413.0	100.0

Coefficient of Utilization



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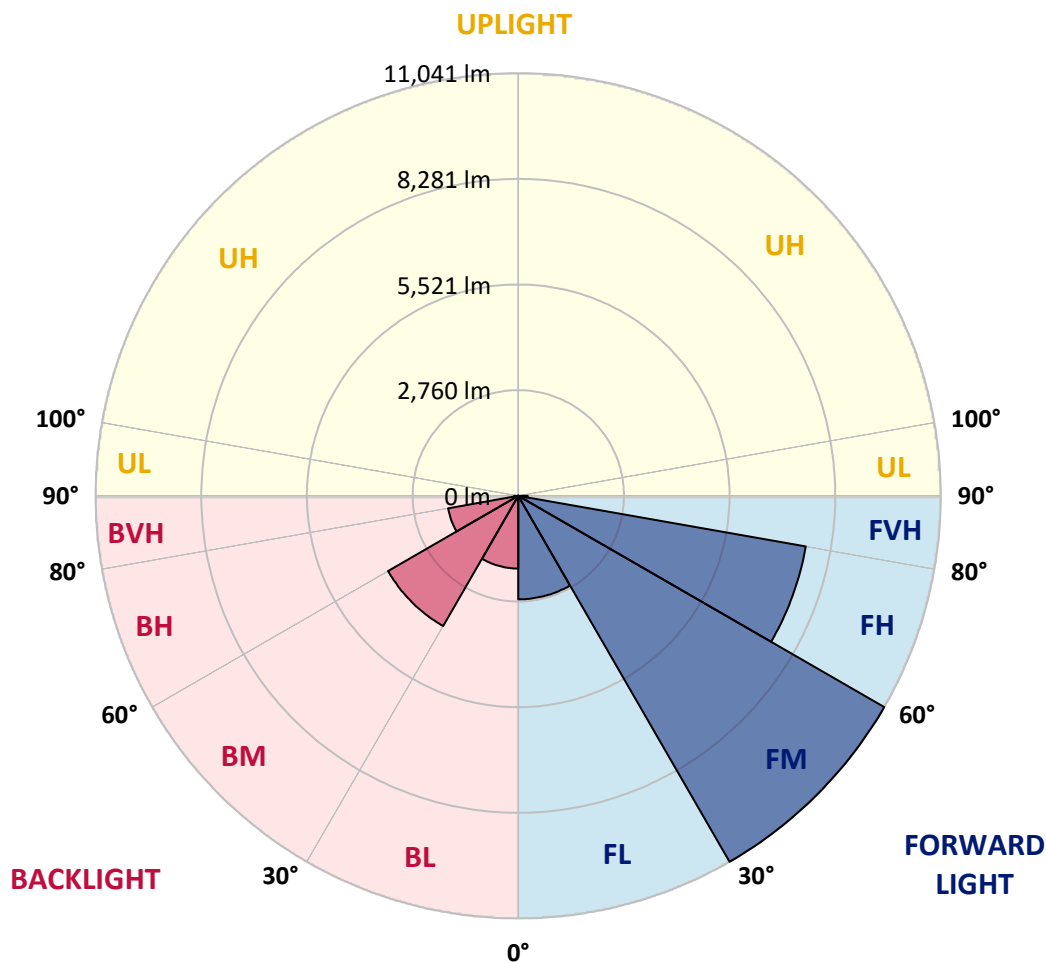
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2705.2	9.2			
FM	(30°-60°)	11041.2	37.5			
FH	(60°-80°)	7628.3	25.9			G4/12000
FVH	(80°-90°)	244.5	0.8			G3/500
BL	(0°-30°)	1899.8	6.5	B3/2500		
BM	(30°-60°)	3928.9	13.4	B3/5000		
BH	(60°-80°)	1861.7	6.3	B3/2500		G3/2500
BVH	(80°-90°)	103.4	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5308.4	5308.4	5308.4	5308.4	5308.4	5308.4	5308.4	5308.4	5308.4	5308.4	5308.4
2.5°	5503.5	5494.9	5490.5	5473.2	5434.1	5451.5	5412.5	5386.4	5382.1	5321.4	5286.7
5°	5729.1	5724.7	5716.0	5690.0	5629.3	5638.0	5572.9	5525.2	5512.2	5416.8	5343.1
7.5°	5919.9	5911.2	5906.9	5872.2	5807.1	5802.8	5724.7	5655.3	5633.6	5503.5	5390.8
10°	6067.3	6054.3	6063.0	6028.3	5958.9	5945.9	5846.2	5755.1	5733.4	5568.6	5412.5
12.5°	6193.1	6184.4	6197.4	6167.1	6110.7	6097.7	5997.9	5880.8	5854.8	5664.0	5460.2
15°	6331.9	6301.5	6327.6	6314.5	6275.5	6271.2	6180.1	6050.0	6015.3	5785.4	5533.9
17.5°	6405.6	6388.3	6418.6	6423.0	6405.6	6436.0	6349.2	6193.1	6162.7	5898.2	5598.9
20°	6457.7	6431.6	6466.3	6492.4	6505.4	6566.1	6496.7	6344.9	6310.2	6006.6	5659.7
22.5°	6635.5	6579.1	6583.4	6600.8	6609.4	6696.2	6652.8	6505.4	6470.7	6141.1	5733.4
25°	7082.2	6969.4	6895.7	6843.6	6782.9	6856.7	6830.6	6687.5	6657.2	6301.5	5824.5
27.5°	7776.1	7633.0	7485.5	7333.7	7095.2	7064.8	7021.5	6891.3	6856.7	6462.0	5915.5
30°	8565.4	8422.3	8248.8	8005.9	7559.2	7325.0	7225.3	7082.2	7043.1	6605.1	6002.3
32.5°	9350.4	9224.6	9051.1	8756.2	8118.7	7641.6	7429.1	7281.7	7242.6	6761.2	6106.4
35°	9961.9	9883.8	9771.1	9402.4	8673.8	8014.6	7724.0	7546.2	7502.9	7008.4	6297.2
37.5°	10456.3	10399.9	10304.5	9918.5	9077.2	8387.6	8062.3	7858.5	7810.8	7277.3	6501.0
40°	11184.9	11037.4	10959.4	10399.9	9428.4	8725.9	8444.0	8231.5	8179.4	7563.6	6665.8
42.5°	11805.1	11696.6	11601.2	10829.3	9762.4	9016.4	8803.9	8608.8	8539.4	7845.5	6843.6
45°	11909.2	11952.5	11904.8	11041.8	10291.5	9302.7	9168.2	9042.5	8977.4	8227.1	7112.5
47.5°	11913.5	11913.5	11631.6	11163.2	10946.4	9623.6	9558.5	9601.9	9532.5	8712.9	7433.5
50°	11601.2	11657.6	11510.2	11193.6	11119.8	9944.5	10035.6	10269.8	10200.4	9228.9	7780.4
52.5°	10955.0	11141.5	11137.2	11145.9	10868.3	10217.8	10538.7	11072.1	10955.0	9810.1	8149.1
55°	9814.4	10187.4	10521.3	10807.6	10651.4	10382.6	11154.5	11926.5	11805.1	10460.6	8522.0
57.5°	8838.6	9077.2	9493.5	10304.5	10395.6	10525.7	11731.3	12819.9	12711.5	11180.6	8912.3
60°	7724.0	8053.6	8470.0	9623.6	10083.3	10712.2	12364.5	13691.6	13587.5	11909.2	9289.7
62.5°	6011.0	6436.0	7268.7	8578.4	9627.9	10829.3	12863.3	14459.3	14411.5	12598.7	9627.9
65°	4189.5	4566.8	5733.4	7294.7	8903.7	10777.2	13262.3	15144.5	15101.1	13162.5	9866.5
67.5°	2446.0	2884.0	4202.5	5872.2	7624.3	10417.3	13392.4	15547.8	15547.8	13505.1	9931.5
70°	1396.5	1600.3	2771.3	4280.5	5846.2	9424.1	13028.1	15543.5	15617.2	13427.1	9662.6
72.5°	975.8	1066.9	1864.9	2879.7	3963.9	7624.3	12074.0	14793.2	14892.9	12689.8	8743.2
75°	759.0	824.0	1314.1	1964.6	2498.1	5178.3	9987.9	12473.0	12737.5	10816.3	7069.2
77.5°	576.8	624.5	767.6	1227.3	1600.3	2975.1	6592.1	8179.4	8196.8	6622.5	3790.5
80°	420.7	468.4	511.8	750.3	850.0	1392.1	2489.4	3417.5	3322.1	3205.0	2051.4
82.5°	251.5	299.2	312.3	407.7	416.3	594.2	871.7	1101.6	1058.2	1409.5	962.8
85°	108.4	151.8	160.5	186.5	177.8	242.9	347.0	290.6	260.2	299.2	208.2
87.5°	26.0	43.4	43.4	47.7	39.0	60.7	65.1	47.7	43.4	52.0	52.0
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°	5308.4	5308.4	5308.4	5308.4	5308.4	5308.4	5308.4	5308.4	5308.4	5308.4	5308.4
2.5°	5278.0	5265.0	5269.3	5195.6	5173.9	5152.2	5139.2	5130.6	5121.9	5134.9	5147.9
5°	5317.1	5286.7	5252.0	5143.6	5100.2	5052.5	5017.8	4987.4	4974.4	4974.4	4987.4
7.5°	5347.4	5295.4	5221.6	5078.5	5000.5	4935.4	4879.0	4840.0	4818.3	4818.3	4831.3
10°	5351.7	5278.0	5160.9	4987.4	4883.4	4787.9	4722.9	4679.5	4649.2	4649.2	4657.8
12.5°	5377.8	5278.0	5126.2	4918.1	4787.9	4670.9	4592.8	4527.7	4514.7	4514.7	4523.4
15°	5421.1	5299.7	5104.5	4857.3	4701.2	4566.8	4480.0	4410.6	4384.6	4402.0	4406.3
17.5°	5460.2	5312.7	5065.5	4779.3	4592.8	4445.3	4349.9	4289.2	4254.5	4293.5	4293.5
20°	5486.2	5312.7	5009.1	4679.5	4475.7	4310.9	4219.8	4146.1	4120.1	4167.8	4172.1
22.5°	5525.2	5308.4	4948.4	4579.8	4349.9	4176.4	4085.4	4029.0	4016.0	4068.0	4085.4
25°	5568.6	5317.1	4883.4	4467.0	4211.1	4042.0	3972.6	3946.6	3955.3	4020.3	4042.0
27.5°	5616.3	5334.4	4818.3	4341.2	4059.3	3907.6	3868.5	3881.5	3916.2	3998.6	4024.7
30°	5659.7	5338.7	4727.2	4193.8	3885.9	3742.8	3760.1	3816.5	3868.5	3950.9	3981.3
32.5°	5716.0	5343.1	4631.8	4033.3	3699.4	3595.3	3673.4	3764.4	3816.5	3894.5	3929.2
35°	5854.8	5416.8	4558.1	3877.2	3525.9	3469.5	3599.6	3716.7	3747.1	3816.5	3846.8
37.5°	6015.3	5538.2	4519.1	3716.7	3356.8	3343.8	3508.6	3625.7	3634.3	3677.7	3708.1
40°	6115.0	5590.3	4475.7	3582.3	3205.0	3213.6	3382.8	3473.9	3456.5	3486.9	3508.6
42.5°	6214.8	5607.6	4384.6	3469.5	3061.9	3070.5	3200.6	3265.7	3274.4	3339.4	3369.8
45°	6383.9	5655.3	4284.9	3365.4	2931.8	2901.4	2979.5	3066.2	3179.0	3304.7	3339.4
47.5°	6609.4	5755.1	4180.8	3239.7	2806.0	2706.2	2736.6	2888.4	3005.5	3122.6	3144.3
50°	6839.3	5854.8	4085.4	3087.9	2680.2	2498.1	2511.1	2649.9	2745.3	2836.3	2849.3
52.5°	7064.8	5941.6	4003.0	2944.8	2537.1	2250.9	2302.9	2446.0	2511.1	2554.4	2567.5
55°	7290.3	6015.3	3929.2	2823.3	2372.3	2055.7	2103.4	2237.8	2302.9	2324.6	2333.3
57.5°	7524.5	6102.0	3872.9	2719.2	2185.8	1882.2	1912.6	2008.0	2068.7	2094.7	2086.1
60°	7719.7	6175.8	3842.5	2610.8	1999.3	1721.8	1713.1	1799.8	1886.6	1912.6	1903.9
62.5°	7871.5	6223.5	3794.8	2472.0	1834.5	1561.3	1517.9	1630.7	1721.8	1739.1	1752.1
65°	7953.9	6227.8	3677.7	2294.2	1665.4	1387.8	1357.5	1470.2	1526.6	1543.9	1543.9
67.5°	7940.9	6158.4	3447.8	2055.7	1509.2	1231.7	1205.7	1275.1	1357.5	1370.5	1357.5
70°	7672.0	5872.2	3079.2	1804.2	1322.8	1092.9	1045.2	1114.6	1192.6	1144.9	1123.3
72.5°	6908.7	5130.6	2537.1	1526.6	1114.6	919.4	897.7	967.1	971.5	980.1	958.5
75°	5451.5	3820.8	1899.6	1188.3	902.1	772.0	767.6	754.6	772.0	806.7	780.6
77.5°	2862.4	1908.2	1027.8	728.6	654.9	620.2	589.8	585.5	637.5	659.2	633.2
80°	1552.6	1071.2	589.8	438.0	399.0	403.3	442.4	433.7	490.1	503.1	481.4
82.5°	676.6	507.4	290.6	264.6	264.6	260.2	273.2	303.6	364.3	364.3	290.6
85°	147.5	125.8	112.8	130.1	147.5	147.5	147.5	147.5	104.1	56.4	39.0
87.5°	47.7	47.7	47.7	52.0	56.4	56.4	47.7	34.7	21.7	4.3	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)