

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: P841371

Luminaire Tested: **ARCH4-170-727-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841371
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: ARCH4-170-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26398 lumens
Efficiency: N/A
Efficacy: 155.5 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): 169.8
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

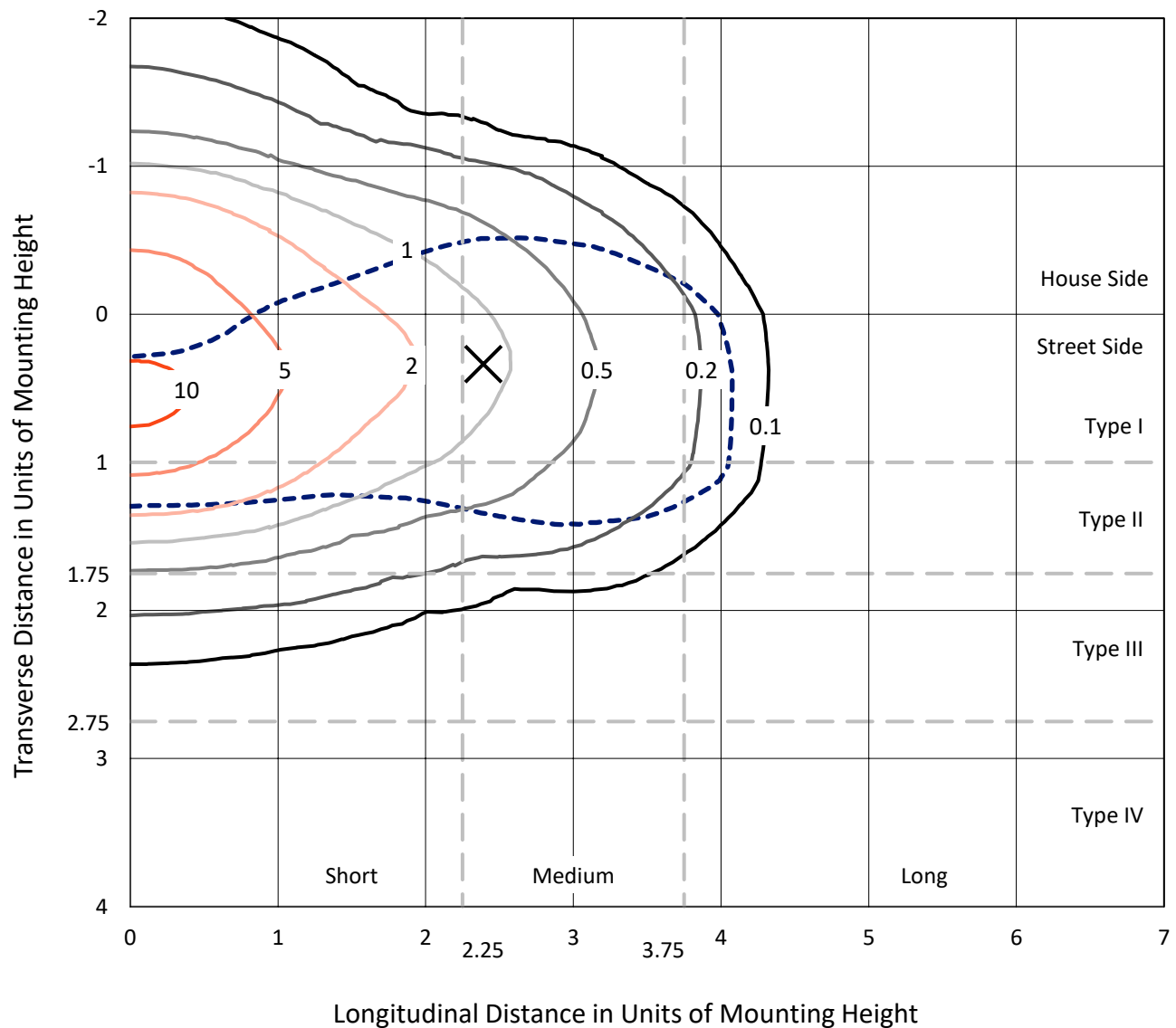


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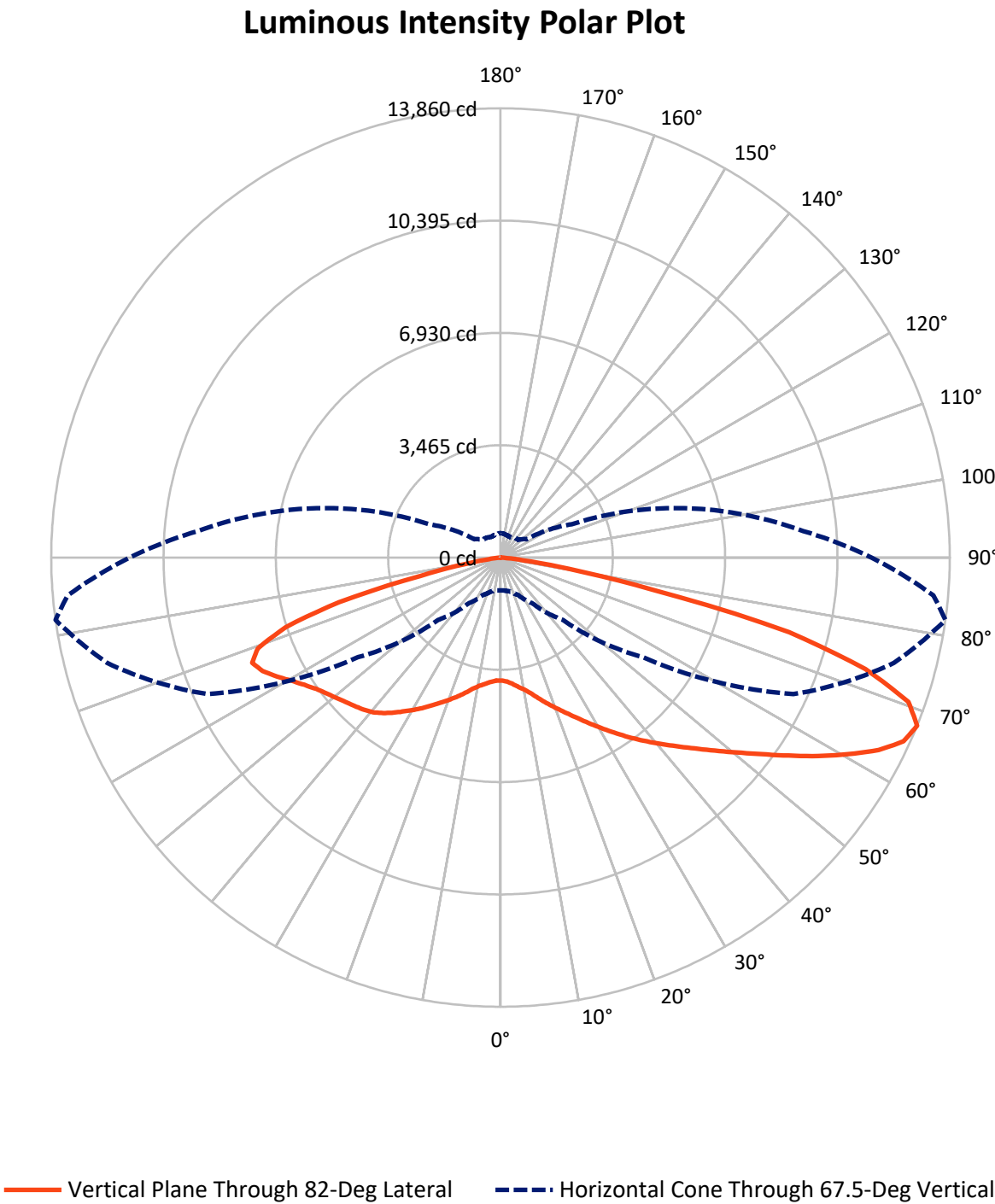
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
Type II - Medium - N/A

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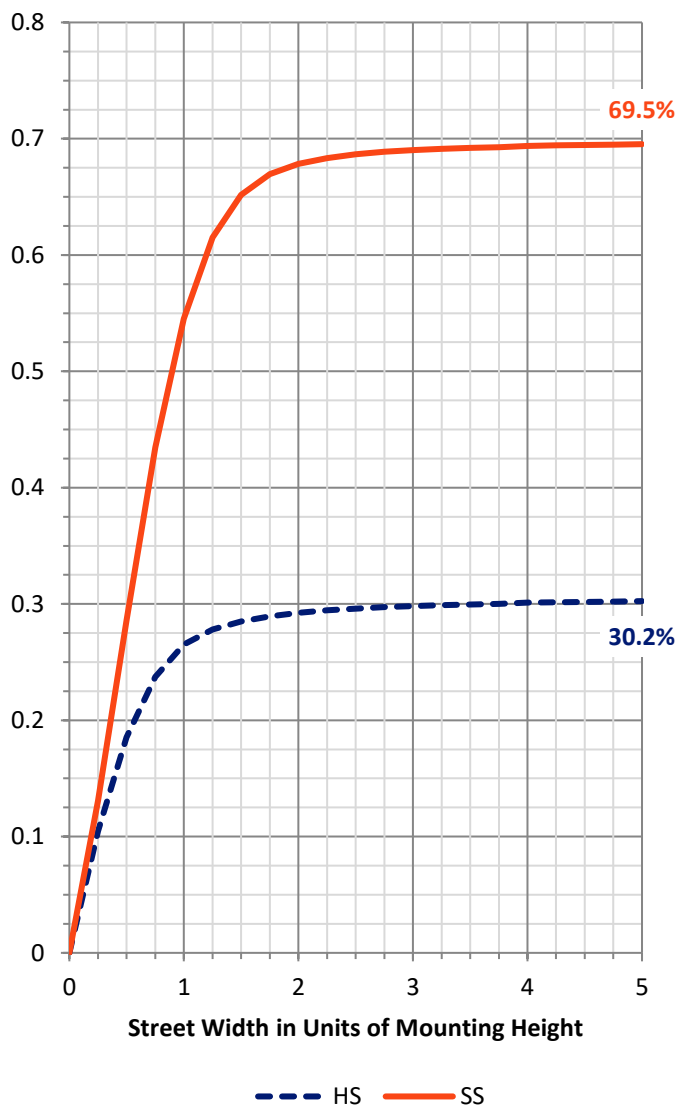
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8039.3	0.0	8039.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	18358.7	0.0	18358.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	26398.0	0.0	26398.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.2	1.5
10°-20°	1412.6	5.4
20°-30°	2839.0	10.8
30°-40°	4459.6	16.9
40°-50°	5432.7	20.6
50°-60°	5133.2	19.4
60°-70°	4238.9	16.1
70°-80°	2308.3	8.7
80°-90°	181.5	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°	26398.0	100.0
0°-180°	26398.0	100.0

Coefficient of Utilization



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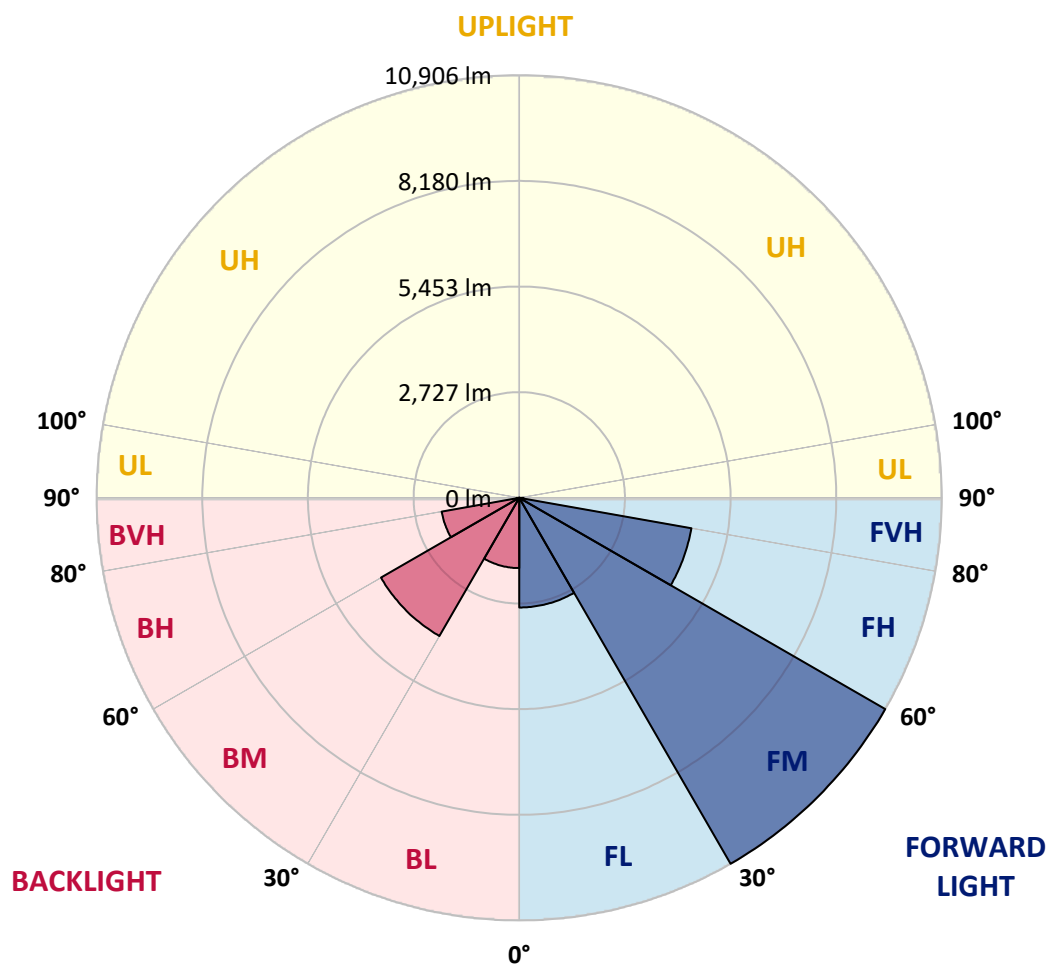
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2830.8	10.7			
FM	(30°-60°)	10906.1	41.3			
FH	(60°-80°)	4512.4	17.1			G2/5000
FVH	(80°-90°)	109.4	0.4			G2/225
BL	(0°-30°)	1812.9	6.9	B3/2500		
BM	(30°-60°)	4119.5	15.6	B3/5000		
BH	(60°-80°)	2034.8	7.7	B3/2500		G3/2500
BVH	(80°-90°)	72.1	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°	3794.7	3794.7	3794.7	3794.7	3794.7	3794.7	3794.7	3794.7	3794.7	3794.7	3794.7
2.5°	3967.2	3967.2	3997.8	3997.8	3971.0	3928.9	3917.4	3871.4	3829.2	3829.2	3833.0
5°	4346.7	4342.8	4365.8	4335.2	4270.0	4185.7	4128.2	4028.5	3944.2	3917.4	3913.5
7.5°	4810.5	4806.6	4818.1	4768.3	4645.6	4507.6	4392.7	4231.7	4093.7	4036.2	4020.8
10°	5327.9	5324.1	5312.6	5228.3	5063.4	4848.8	4676.3	4454.0	4247.0	4155.0	4135.8
12.5°	5922.0	5914.4	5887.5	5764.9	5538.7	5262.7	5013.6	4726.1	4450.1	4323.7	4281.5
15°	6585.1	6573.6	6523.8	6374.3	6071.5	5722.7	5400.7	5032.8	4695.5	4530.6	4473.1
17.5°	7282.8	7282.8	7206.1	6983.8	6646.5	6213.3	5814.7	5347.1	4952.3	4749.1	4680.1
20°	7991.9	7988.0	7892.2	7623.9	7225.3	6727.0	6221.0	5707.4	5216.8	4971.4	4887.1
22.5°	8739.3	8731.6	8612.8	8306.2	7830.9	7267.4	6677.1	6063.9	5508.1	5212.9	5105.6
25°	9597.9	9586.4	9440.8	9065.1	8501.7	7865.4	7190.8	6481.7	5841.5	5481.2	5354.7
27.5°	10510.2	10494.8	10322.3	9885.4	9268.3	8501.7	7758.1	6964.6	6209.5	5780.2	5638.4
30°	11322.8	11311.3	11123.5	10675.0	9965.9	9134.1	8298.5	7447.6	6596.6	6098.3	5922.0
32.5°	11936.1	11936.1	11767.4	11326.6	10590.7	9739.7	8842.8	7903.7	6999.1	6439.5	6232.5
35°	12307.9	12319.4	12173.7	11821.1	11127.3	10310.8	9406.3	8440.3	7428.4	6803.6	6581.3
37.5°	12361.5	12399.8	12315.5	12077.9	11499.1	10786.1	9958.2	8957.8	7873.0	7171.6	6922.5
40°	12112.4	12139.2	12143.0	12051.0	11652.4	11127.3	10445.0	9505.9	8344.5	7558.7	7271.3
42.5°	11614.1	11633.2	11667.7	11694.6	11541.3	11276.8	10816.8	10015.7	8846.6	7953.5	7616.2
45°	10970.1	10966.3	11023.8	11138.8	11131.1	11192.4	11023.8	10479.5	9367.9	8402.0	7999.5
47.5°	10008.0	9988.9	10192.0	10452.7	10583.0	10870.5	11027.6	10843.6	9935.2	8896.5	8436.5
50°	8501.7	8482.5	8927.1	9540.4	9923.7	10360.7	10816.8	11062.1	10529.3	9452.2	8911.8
52.5°	6669.5	6650.3	7213.8	8287.0	9122.6	9758.9	10391.3	11112.0	11092.8	10073.2	9448.4
55°	4959.9	4944.6	5492.7	6654.1	8007.2	9061.3	9870.1	10981.6	11621.7	10786.1	10100.0
57.5°	3495.7	3488.1	3963.4	4925.4	6573.6	8210.3	9367.9	10728.6	12108.5	11560.4	10836.0
60°	2453.1	2441.6	2786.6	3530.2	4971.4	6926.3	8869.6	10391.3	12472.7	12323.2	11617.9
62.5°	1652.0	1644.4	1889.7	2510.6	3530.2	5331.7	8114.5	10165.2	12679.7	13089.8	12407.5
65°	1253.4	1249.6	1360.7	1701.9	2499.1	3829.2	6914.8	10138.4	12706.5	13664.7	13078.3
67.5°	1011.9	1015.8	1077.1	1272.6	1728.7	2721.5	5362.4	9969.7	12564.7	13860.2	13404.1
70°	827.9	827.9	854.8	985.1	1276.4	1836.0	3744.9	9203.1	12169.9	13350.4	13017.0
72.5°	632.4	636.3	720.6	797.3	962.1	1287.9	2399.5	7616.2	11238.4	11771.2	11518.3
75°	502.1	498.3	548.1	655.4	747.4	919.9	1471.9	5462.1	9563.4	9199.3	9038.3
77.5°	360.3	356.5	394.8	486.8	567.3	651.6	877.8	2755.9	5201.4	4779.8	4661.0
80°	245.3	237.6	272.1	337.3	375.6	383.3	429.3	1057.9	2269.2	2138.8	2112.0
82.5°	126.5	126.5	145.7	191.7	195.5	199.3	191.7	341.1	751.3	701.4	670.8
85°	49.8	49.8	53.7	65.2	65.2	69.0	69.0	88.2	80.5	76.7	72.8
87.5°	3.8	3.8	7.7	7.7	11.5	11.5	11.5	15.3	19.2	19.2	19.2
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°	3794.7	3794.7	3794.7	3794.7	3794.7	3794.7	3794.7	3794.7	3794.7	3794.7	3794.7
2.5°	3825.4	3810.0	3760.2	3748.7	3741.0	3729.5	3733.4	3706.5	3695.0	3698.9	3683.5
5°	3894.4	3867.5	3806.2	3779.4	3771.7	3760.2	3771.7	3752.5	3733.4	3741.0	3733.4
7.5°	3990.2	3951.9	3875.2	3848.4	3844.5	3833.0	3848.4	3833.0	3817.7	3825.4	3810.0
10°	4089.8	4040.0	3955.7	3928.9	3928.9	3925.0	3940.4	3917.4	3902.0	3905.9	3898.2
12.5°	4235.5	4170.3	4078.3	4055.3	4043.8	4055.3	4059.2	4028.5	4001.7	4005.5	3994.0
15°	4411.8	4339.0	4239.3	4204.8	4197.2	4193.3	4178.0	4139.7	4105.2	4101.3	4089.8
17.5°	4603.5	4511.5	4392.7	4358.2	4323.7	4312.2	4273.8	4224.0	4170.3	4170.3	4155.0
20°	4787.5	4684.0	4542.1	4492.3	4442.5	4396.5	4331.3	4250.8	4181.8	4170.3	4155.0
22.5°	4986.8	4864.1	4699.3	4626.5	4538.3	4446.3	4335.2	4227.8	4139.7	4120.5	4109.0
25°	5209.1	5055.8	4860.3	4753.0	4611.1	4469.3	4304.5	4166.5	4063.0	4032.3	4024.7
27.5°	5454.4	5270.4	5032.8	4875.6	4668.6	4446.3	4235.5	4070.7	3944.2	3905.9	3894.4
30°	5703.5	5485.1	5189.9	4959.9	4668.6	4373.5	4109.0	3917.4	3771.7	3718.0	3710.4
32.5°	5952.7	5707.4	5331.7	5005.9	4622.6	4250.8	3944.2	3718.0	3553.2	3488.1	3503.4
35°	6251.7	5952.7	5462.1	5025.1	4546.0	4101.3	3756.4	3491.9	3323.2	3265.7	3277.2
37.5°	6562.1	6198.0	5565.6	5009.8	4438.6	3932.7	3545.6	3288.7	3077.9	2978.3	2989.8
40°	6830.5	6420.3	5638.4	4956.1	4300.7	3741.0	3338.6	3001.3	2710.0	2614.1	2602.6
42.5°	7083.4	6585.1	5676.7	4875.6	4143.5	3518.7	3043.4	2610.3	2319.0	2200.2	2204.0
45°	7347.9	6746.1	5661.4	4768.3	3948.0	3258.1	2664.0	2227.0	1970.2	1862.9	1866.7
47.5°	7650.7	6918.6	5646.1	4653.3	3710.4	2920.8	2299.8	1889.7	1667.4	1590.7	1583.0
50°	7972.7	7110.3	5626.9	4511.5	3445.9	2545.1	1939.5	1575.4	1387.6	1337.7	1326.2
52.5°	8336.8	7317.3	5615.4	4342.8	3127.8	2146.5	1617.5	1299.4	1172.9	1138.4	1134.6
55°	8773.8	7558.7	5630.7	4139.7	2744.4	1770.9	1345.4	1119.2	1034.9	1015.8	1011.9
57.5°	9306.6	7869.2	5676.7	3902.0	2342.0	1445.1	1146.1	1008.1	954.4	939.1	939.1
60°	9885.4	8221.8	5761.0	3633.7	1939.5	1192.1	1015.8	919.9	896.9	916.1	916.1
62.5°	10510.2	8635.8	5910.5	3307.9	1563.9	1008.1	912.3	847.1	831.8	870.1	873.9
65°	11089.0	9038.3	6006.4	2916.9	1241.9	873.9	831.8	774.3	781.9	820.3	816.4
67.5°	11445.4	9371.8	5872.2	2426.3	985.1	774.3	747.4	697.6	716.8	747.4	751.3
70°	11226.9	9183.9	5209.1	1832.2	770.4	674.6	655.4	624.8	640.1	678.4	693.8
72.5°	10157.5	8225.7	4051.5	1238.1	621.0	567.3	575.0	559.6	578.8	613.3	647.8
75°	8244.8	6217.2	2717.6	793.4	490.6	483.0	494.5	483.0	490.6	525.1	544.3
77.5°	4304.5	3031.9	1353.1	494.5	364.1	375.6	394.8	398.6	421.6	429.3	437.0
80°	2008.5	1364.6	563.5	276.0	241.5	264.5	302.8	306.6	314.3	325.8	329.6
82.5°	655.4	410.1	260.6	149.5	138.0	149.5	195.5	233.8	237.6	260.6	260.6
85°	69.0	42.2	57.5	61.3	53.7	65.2	88.2	84.3	38.3	23.0	23.0
87.5°	19.2	15.3	19.2	19.2	15.3	15.3	11.5	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)