

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: P841723

Luminaire Tested: **ARCH4-220-722-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-220-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 870mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20525 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

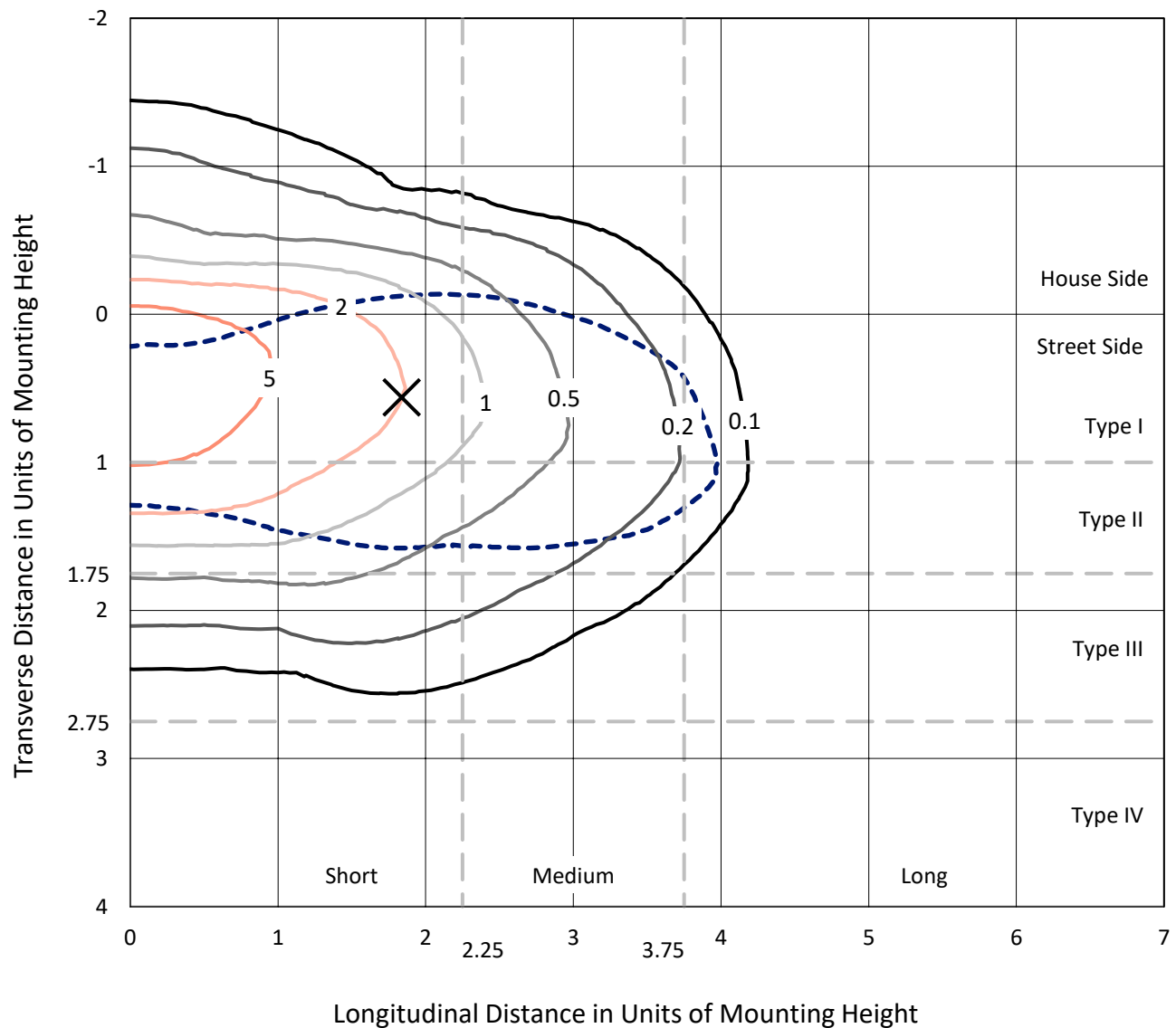
Input Watts (W): 221.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

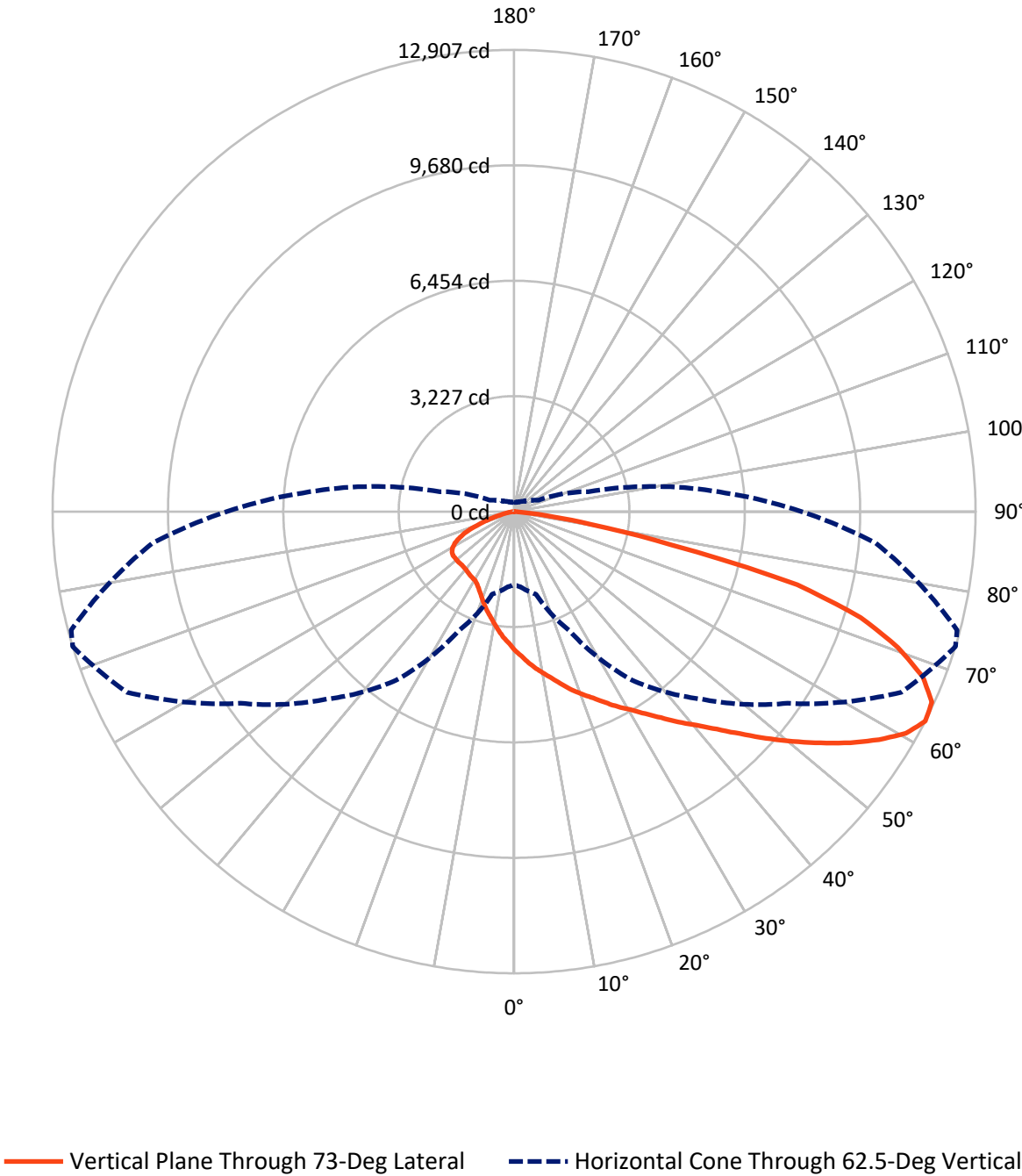
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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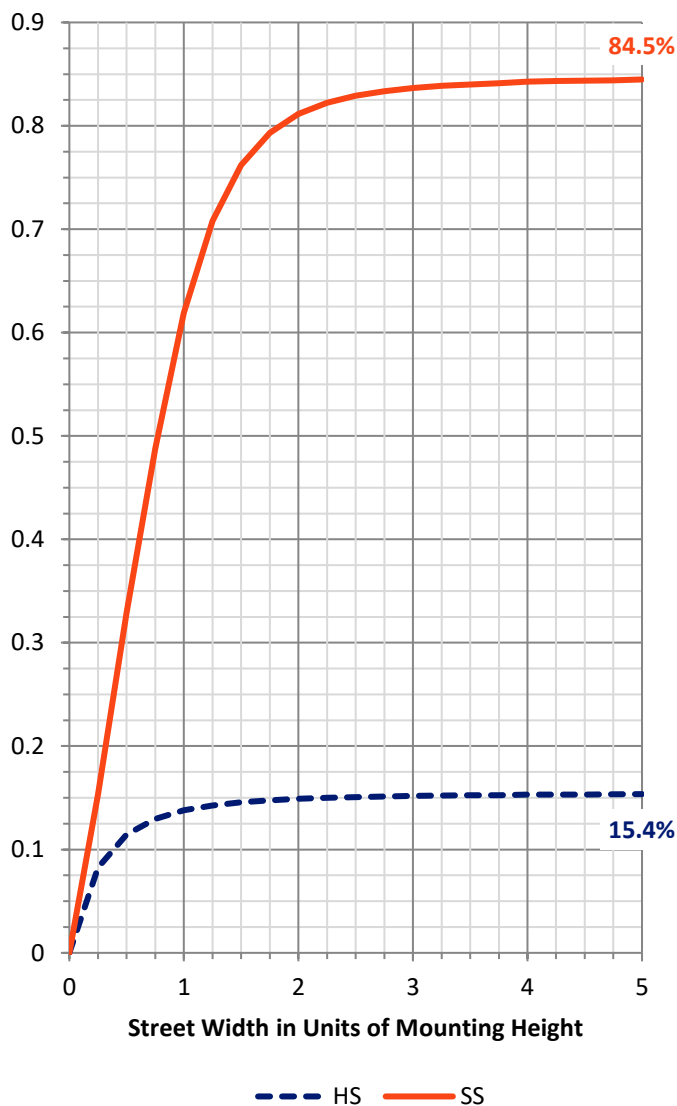
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3181.7	0.0	3181.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	17343.3	0.0	17343.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	20525.0	0.0	20525.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.5	1.8
10°-20°	1133.0	5.5
20°-30°	1885.8	9.2
30°-40°	2845.4	13.9
40°-50°	3977.2	19.4
50°-60°	4393.0	21.4
60°-70°	3826.9	18.6
70°-80°	1933.1	9.4
80°-90°	155.2	0.8
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°	20525.0	100.0
0°-180°	20525.0	100.0

Coefficient of Utilization



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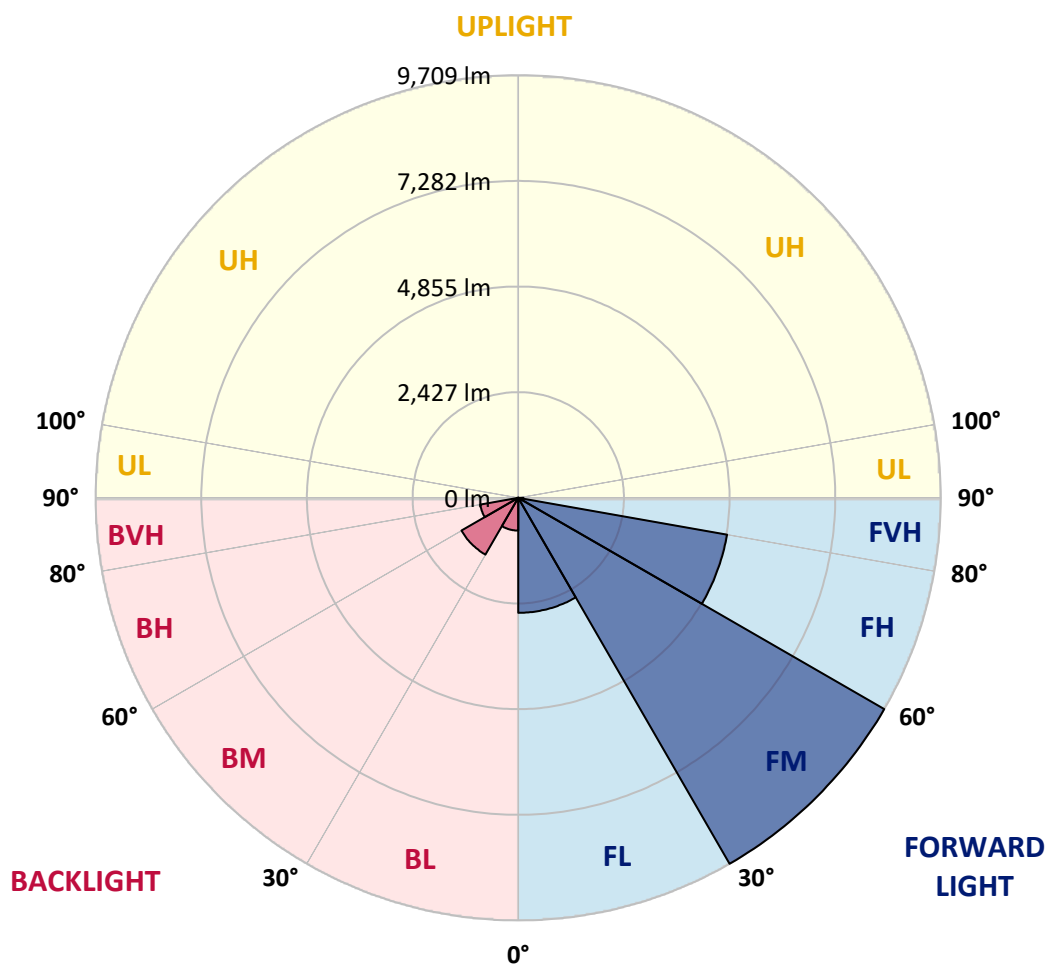
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2642.2	12.9			
FM	(30°-60°)	9709.1	47.3			
FH	(60°-80°)	4872.0	23.7			G2/5000
FVH	(80°-90°)	120.1	0.6			G2/225
BL	(0°-30°)	752.0	3.7	B2/1000		
BM	(30°-60°)	1506.5	7.3	B2/2500		
BH	(60°-80°)	888.1	4.3	B2/1000		G2/1000
BVH	(80°-90°)	35.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5
2.5°	4423.1	4472.3	4445.5	4463.4	4373.9	4315.8	4248.7	4119.0	4047.5	4038.5	3953.5
5°	5071.6	5125.3	5080.6	5067.1	4910.6	4776.4	4624.4	4396.3	4244.2	4217.4	4029.6
7.5°	5720.1	5769.3	5715.6	5675.4	5465.2	5228.2	5004.5	4669.1	4432.1	4387.4	4092.2
10°	6176.3	6221.0	6180.8	6140.5	5921.4	5679.9	5362.3	4924.0	4602.0	4530.5	4132.4
12.5°	6520.7	6547.5	6529.6	6493.8	6288.1	6028.7	5724.6	5210.3	4794.3	4704.9	4195.0
15°	6802.4	6847.1	6824.8	6797.9	6601.2	6341.8	6051.1	5509.9	5018.0	4906.1	4289.0
17.5°	6990.2	7021.6	7026.0	7026.0	6851.6	6596.7	6314.9	5782.7	5241.6	5098.5	4378.4
20°	7075.2	7111.0	7133.4	7169.1	7026.0	6806.9	6520.7	6015.3	5451.8	5290.8	4463.4
22.5°	7115.5	7146.8	7204.9	7285.4	7169.1	6985.8	6721.9	6230.0	5662.0	5492.0	4561.8
25°	7146.8	7187.0	7272.0	7424.1	7343.6	7187.0	6958.9	6475.9	5912.4	5738.0	4704.9
27.5°	7231.8	7280.9	7361.5	7544.8	7446.4	7370.4	7209.4	6739.8	6176.3	5997.4	4879.3
30°	7526.9	7567.2	7562.7	7679.0	7558.2	7535.9	7424.1	6994.7	6431.2	6252.3	5085.0
32.5°	8063.6	8103.9	8005.5	7960.7	7696.9	7701.3	7656.6	7267.5	6735.3	6552.0	5322.1
35°	8640.5	8685.3	8555.6	8479.5	8036.8	7907.1	7929.4	7607.4	7075.2	6891.9	5617.2
37.5°	9154.9	9208.5	9096.7	8984.9	8537.7	8238.0	8233.6	7987.6	7464.3	7276.5	5943.7
40°	9436.6	9499.2	9566.3	9503.7	9034.1	8703.1	8560.0	8376.7	7848.9	7656.6	6297.0
42.5°	9570.8	9745.2	9866.0	9825.7	9441.1	9105.7	8935.7	8783.7	8318.5	8130.7	6717.4
45°	9195.1	9199.6	9454.5	9673.6	9602.1	9378.5	9347.2	9239.8	8855.2	8676.3	7191.5
47.5°	8725.5	8689.7	8868.6	9257.7	9459.0	9517.1	9700.5	9745.2	9467.9	9289.0	7674.5
50°	7598.5	7620.8	8202.2	8761.3	9154.9	9530.5	9950.9	10264.0	10098.5	9928.6	8184.4
52.5°	6180.8	6234.4	6900.8	8130.7	8752.3	9396.4	10098.5	10782.8	10742.5	10581.5	8694.2
55°	4955.3	5040.3	5746.9	7079.7	8238.0	9096.7	10161.1	11256.8	11408.9	11261.3	9195.1
57.5°	3788.1	3877.5	4472.3	5840.9	7580.6	8609.2	10116.4	11672.8	12030.6	11936.6	9655.8
60°	2853.3	2942.8	3322.9	4736.2	6757.7	8063.6	9892.8	11945.6	12589.6	12491.2	9991.2
62.5°	2043.9	2115.4	2397.2	3685.2	5755.9	7415.1	9342.7	11950.1	12907.1	12826.6	10152.2
65°	1471.4	1471.4	1699.5	2629.7	4816.7	6636.9	8510.8	11400.0	12840.1	12817.7	10040.4
67.5°	1059.9	1068.9	1252.3	1838.1	3841.7	5693.3	7433.0	10420.5	12321.3	12433.1	9637.9
70°	751.4	773.7	858.7	1283.6	2902.5	4494.7	6279.1	9137.0	11386.5	11583.3	8859.7
72.5°	581.4	594.8	653.0	894.5	2119.9	3340.8	5004.5	7705.8	10138.8	10362.4	7799.7
75°	447.2	460.6	505.4	657.4	1520.6	2343.5	3555.5	5979.5	8175.4	8573.5	6265.7
77.5°	326.5	344.4	375.7	478.5	885.5	1489.3	2155.7	3363.2	4512.6	4700.4	3282.7
80°	152.1	174.4	219.1	308.6	478.5	702.2	764.8	1297.0	2169.1	2267.5	1780.0
82.5°	85.0	107.3	125.2	187.8	241.5	250.5	259.4	326.5	818.4	903.4	746.9
85°	40.3	53.7	58.1	80.5	80.5	71.6	85.0	62.6	134.2	161.0	156.5
87.5°	0.0	4.5	8.9	22.4	17.9	13.4	13.4	13.4	13.4	17.9	13.4
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°	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5
2.5°	3913.3	3855.1	3721.0	3604.7	3528.7	3461.6	3372.1	3331.9	3260.3	3273.7	3233.5
5°	3935.6	3828.3	3591.3	3372.1	3211.1	3068.0	2911.5	2822.0	2723.6	2714.7	2683.4
7.5°	3949.1	3783.6	3443.7	3135.1	2889.1	2670.0	2459.8	2343.5	2222.7	2195.9	2169.1
10°	3935.6	3716.5	3291.6	2889.1	2562.6	2289.8	2052.8	1905.2	1780.0	1748.7	1721.8
12.5°	3949.1	3680.7	3148.5	2661.0	2271.9	1963.4	1695.0	1543.0	1426.7	1395.4	1377.5
15°	3980.4	3658.4	3027.8	2455.3	2012.5	1668.2	1404.3	1274.6	1180.7	1149.4	1140.4
17.5°	4007.2	3636.0	2898.1	2254.1	1753.2	1408.8	1180.7	1073.4	992.9	961.6	952.6
20°	4043.0	3604.7	2768.4	2061.7	1525.1	1203.1	1001.8	907.9	845.3	822.9	818.4
22.5°	4074.3	3582.3	2647.6	1869.4	1314.9	1037.6	867.6	791.6	746.9	724.5	724.5
25°	4154.8	3591.3	2544.8	1690.5	1158.3	907.9	764.8	706.6	670.8	657.4	657.4
27.5°	4248.7	3627.1	2464.3	1538.5	1024.2	809.5	693.2	644.0	626.1	608.2	612.7
30°	4382.9	3698.6	2410.6	1413.3	925.8	733.5	635.1	599.3	581.4	576.9	576.9
32.5°	4552.8	3814.9	2406.1	1332.8	854.2	675.3	594.8	563.5	554.6	550.1	550.1
35°	4754.1	3917.8	2379.3	1297.0	809.5	635.1	563.5	541.2	536.7	536.7	536.7
37.5°	4995.6	4087.7	2361.4	1247.8	787.1	612.7	541.2	523.3	523.3	523.3	523.3
40°	5246.0	4226.3	2334.6	1203.1	778.2	599.3	527.7	505.4	505.4	505.4	505.4
42.5°	5545.7	4427.6	2325.6	1180.7	764.8	590.3	509.8	483.0	487.5	487.5	492.0
45°	5907.9	4655.7	2321.1	1158.3	760.3	581.4	492.0	460.6	465.1	460.6	460.6
47.5°	6274.7	4919.6	2334.6	1144.9	755.8	572.5	478.5	438.3	438.3	433.8	433.8
50°	6659.3	5161.1	2343.5	1131.5	746.9	554.6	456.2	420.4	411.5	402.5	407.0
52.5°	7021.6	5384.7	2348.0	1109.1	720.0	527.7	438.3	398.0	384.6	371.2	375.7
55°	7383.8	5599.4	2356.9	1082.3	684.3	500.9	415.9	375.7	357.8	339.9	339.9
57.5°	7710.3	5787.2	2334.6	1015.2	644.0	474.1	393.6	348.8	322.0	304.1	304.1
60°	7933.9	5921.4	2267.5	916.8	590.3	442.8	371.2	322.0	290.7	277.3	277.3
62.5°	8041.2	5943.7	2146.7	755.8	523.3	411.5	344.4	295.2	268.3	259.4	259.4
65°	7938.4	5845.3	1958.9	568.0	451.7	375.7	317.5	272.8	246.0	223.6	223.6
67.5°	7580.6	5568.0	1699.5	429.3	384.6	339.9	290.7	250.5	219.1	201.3	201.3
70°	6860.5	4991.1	1314.9	344.4	326.5	295.2	263.9	223.6	196.8	174.4	174.4
72.5°	5916.9	4230.8	925.8	277.3	277.3	250.5	223.6	196.8	169.9	152.1	152.1
75°	4539.4	3130.6	621.7	223.6	228.1	210.2	183.4	161.0	143.1	129.7	129.7
77.5°	2477.7	1547.4	380.1	165.5	169.9	161.0	143.1	129.7	120.8	107.3	107.3
80°	1203.1	679.8	219.1	116.3	120.8	116.3	107.3	93.9	93.9	85.0	85.0
82.5°	505.4	254.9	116.3	80.5	80.5	71.6	67.1	67.1	67.1	62.6	62.6
85°	125.2	49.2	49.2	44.7	44.7	44.7	40.3	40.3	40.3	31.3	35.8
87.5°	17.9	17.9	17.9	17.9	17.9	17.9	13.4	4.5	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)