

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: P836186

Luminaire Tested: **ARCH3-150-730-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-150-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14525 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

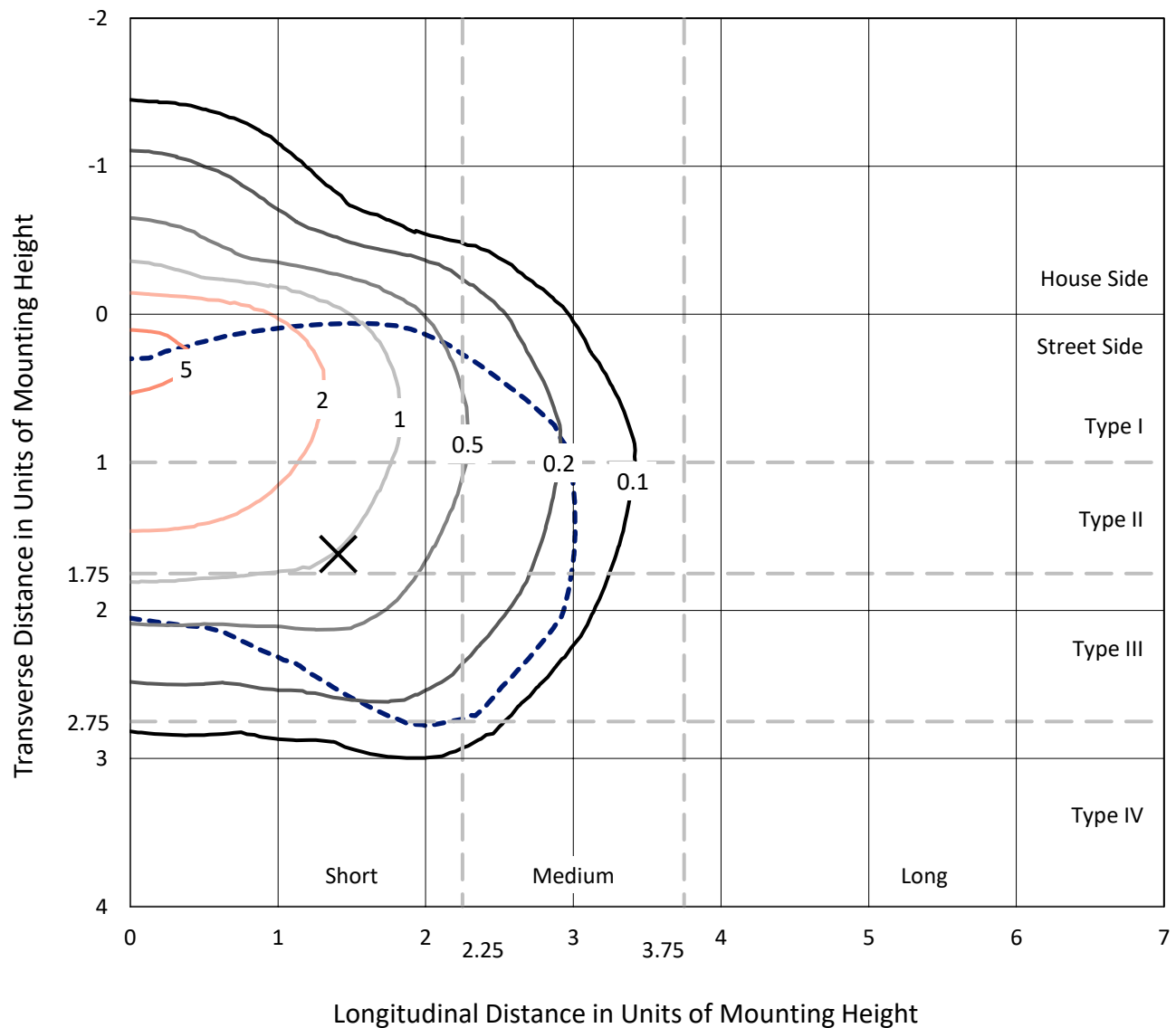
Input Watts (W): 150.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

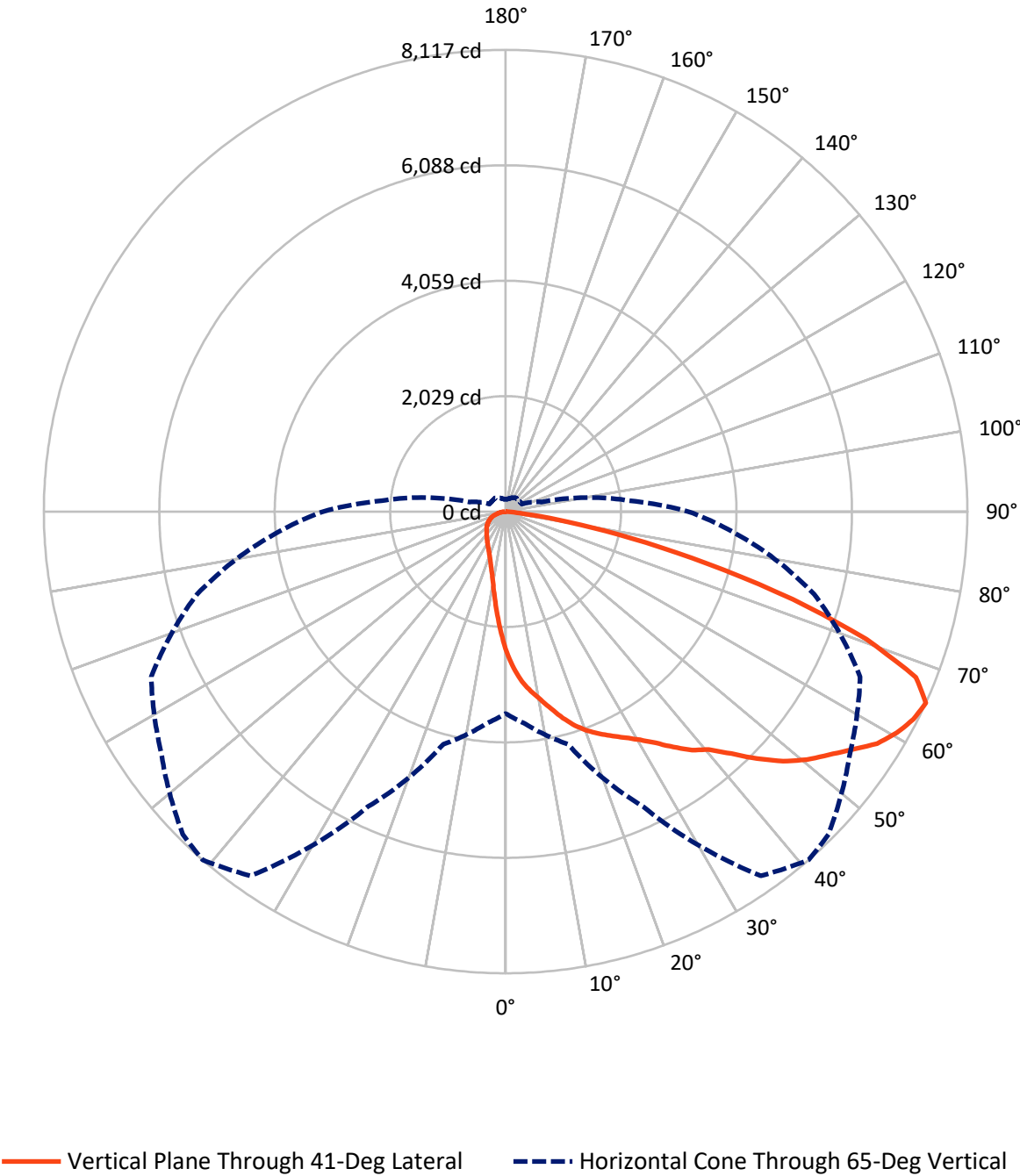
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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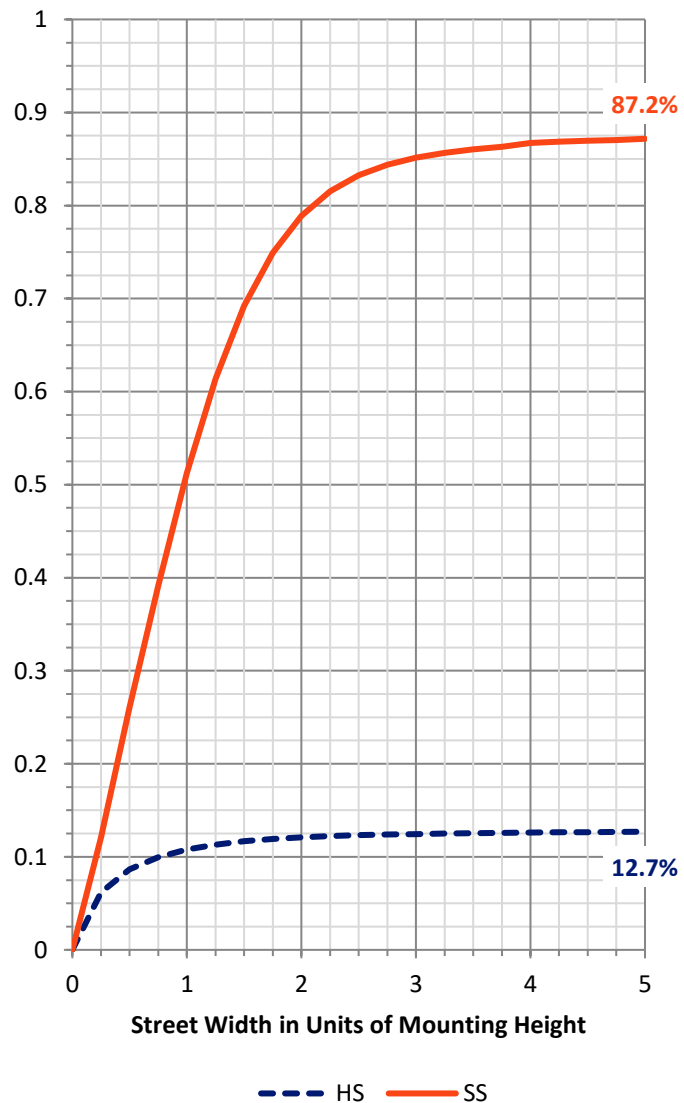
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1864.8	0.0	1864.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	12660.2	0.0	12660.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	14525.0	0.0	14525.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.6	1.6
10°-20°	691.5	4.8
20°-30°	1189.6	8.2
30°-40°	1804.2	12.4
40°-50°	2643.2	18.2
50°-60°	3337.8	23.0
60°-70°	3129.8	21.5
70°-80°	1394.9	9.6
80°-90°	103.3	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°	14525.0	100.0
0°-180°	14525.0	100.0

Coefficient of Utilization



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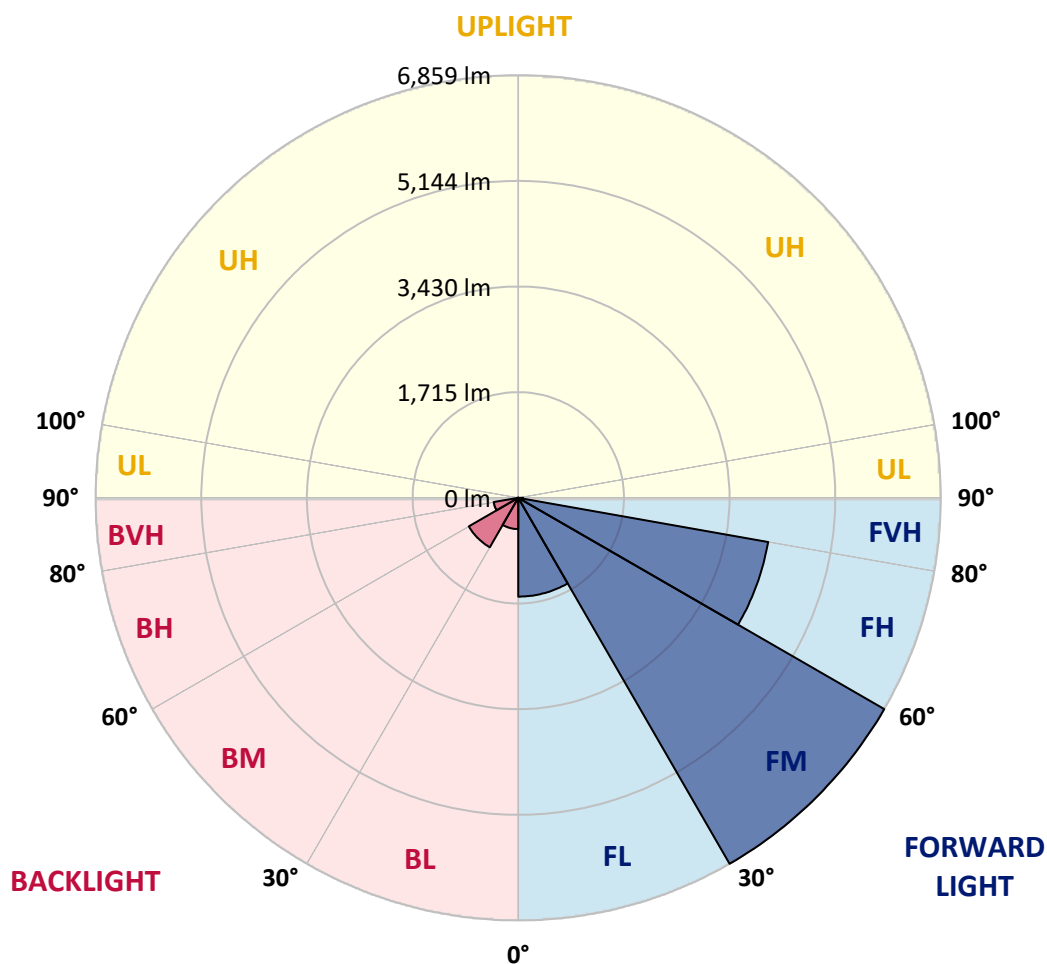
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1604.1	11.0			
FM	(30°-60°)	6859.3	47.2			
FH	(60°-80°)	4119.7	28.4			G2/5000
FVH	(80°-90°)	77.2	0.5			G1/100
BL	(0°-30°)	507.6	3.5	B2/1000		
BM	(30°-60°)	926.0	6.4	B1/1000		
BH	(60°-80°)	405.1	2.8	B1/500		G1/500
BVH	(80°-90°)	26.2	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0
2.5°	2854.8	2845.6	2839.5	2805.8	2805.8	2759.9	2762.9	2720.0	2668.0	2585.3	2496.4
5°	3124.4	3112.1	3096.8	3063.1	3050.8	3004.9	2998.8	2937.5	2848.7	2704.7	2545.4
7.5°	3360.2	3348.0	3326.5	3277.5	3243.8	3188.7	3173.4	3093.7	2995.7	2818.1	2594.4
10°	3574.6	3565.4	3537.9	3476.6	3430.7	3363.3	3335.7	3228.5	3106.0	2909.9	2634.3
12.5°	3792.1	3779.9	3743.1	3691.0	3635.9	3556.3	3522.6	3384.7	3228.5	3011.0	2692.5
15°	3994.3	3975.9	3948.3	3893.2	3844.2	3767.6	3730.9	3568.5	3378.6	3124.4	2769.0
17.5°	4126.0	4110.7	4086.2	4055.5	4015.7	3957.5	3920.8	3761.5	3528.7	3234.6	2848.7
20°	4205.6	4199.5	4190.3	4171.9	4153.6	4113.7	4086.2	3936.1	3691.0	3341.8	2925.3
22.5°	4266.9	4260.8	4257.7	4257.7	4260.8	4245.5	4227.1	4098.4	3847.3	3455.2	2995.7
25°	4361.9	4358.8	4352.7	4346.5	4368.0	4371.0	4364.9	4276.1	4043.3	3605.3	3084.5
27.5°	4493.6	4484.4	4472.1	4466.0	4487.4	4502.8	4515.0	4453.7	4251.6	3758.4	3185.6
30°	4695.7	4668.2	4637.5	4616.1	4631.4	4655.9	4683.5	4646.7	4466.0	3948.3	3289.8
32.5°	4934.7	4901.0	4830.5	4790.7	4830.5	4848.9	4870.3	4851.9	4689.6	4153.6	3393.9
35°	5225.6	5185.8	5112.3	5054.1	5124.6	5084.7	5075.6	5057.2	4901.0	4355.7	3510.3
37.5°	5709.6	5651.4	5535.0	5406.4	5406.4	5320.6	5286.9	5231.8	5090.9	4536.4	3623.6
40°	6270.2	6193.6	6043.5	5853.6	5679.0	5501.3	5479.9	5440.1	5314.5	4744.7	3752.3
42.5°	6885.8	6738.8	6530.5	6300.8	6019.0	5816.8	5767.8	5654.5	5532.0	4956.1	3880.9
45°	7568.9	7262.6	6959.4	6843.0	6377.4	6193.6	6101.7	5896.5	5758.6	5176.6	4015.7
47.5°	7679.2	7440.3	7238.1	7219.7	6711.3	6558.1	6453.9	6159.9	6003.7	5412.5	4156.6
50°	7617.9	7474.0	7495.4	7421.9	6956.3	6855.2	6775.6	6441.7	6245.7	5639.2	4285.3
52.5°	7360.6	7440.3	7562.8	7428.0	7189.1	7106.4	7066.6	6744.9	6472.3	5847.5	4401.7
55°	7054.3	7109.5	7372.9	7538.3	7458.6	7385.1	7348.4	7097.2	6695.9	6022.1	4508.9
57.5°	6607.1	6582.6	6873.6	7519.9	7740.5	7697.6	7657.7	7443.3	6904.2	6147.6	4576.3
60°	5936.3	5884.2	6251.8	7152.3	7832.3	7899.7	7881.4	7673.1	7063.5	6144.6	4548.7
62.5°	4775.4	4904.0	5412.5	6552.0	7872.2	8043.7	8010.0	7691.4	7115.6	5966.9	4374.1
65°	3550.1	3733.9	4233.2	5724.9	7817.0	8117.2	8025.3	7391.3	6873.6	5614.7	3991.2
67.5°	2557.7	2720.0	3084.5	4711.0	7287.1	7780.3	7673.1	6901.2	6316.1	5115.4	3461.3
70°	1749.0	1865.4	2113.5	3430.7	6221.2	6726.6	6659.2	6169.1	5437.0	4521.1	2811.9
72.5°	1234.4	1283.4	1442.7	2263.6	4726.4	5277.7	5198.1	5075.6	4368.0	3758.4	2187.1
75°	925.1	955.7	1041.5	1464.2	3188.7	3657.3	3583.8	3654.3	3262.2	2845.6	1592.8
77.5°	349.2	379.8	591.2	934.2	1886.9	2245.3	2171.7	2214.6	1813.4	1436.6	793.3
80°	95.0	101.1	196.0	444.1	857.7	1118.0	1016.9	873.0	673.9	661.6	419.6
82.5°	39.8	45.9	88.8	238.9	306.3	306.3	257.3	318.6	257.3	309.4	202.2
85°	15.3	18.4	21.4	61.3	39.8	42.9	45.9	61.3	52.1	64.3	45.9
87.5°	0.0	0.0	0.0	3.1	3.1	6.1	3.1	6.1	9.2	9.2	9.2
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°	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0
2.5°	2459.7	2426.0	2377.0	2297.3	2214.6	2168.7	2110.5	2101.3	2040.0	2033.9	2009.4
5°	2475.0	2404.5	2278.9	2125.8	1975.7	1859.3	1773.5	1727.6	1638.8	1638.8	1614.3
7.5°	2487.2	2377.0	2174.8	1948.1	1742.9	1586.7	1470.3	1421.3	1341.6	1335.5	1317.1
10°	2490.3	2343.3	2061.5	1767.4	1516.2	1357.0	1243.6	1188.5	1118.0	1111.9	1099.7
12.5°	2514.8	2324.9	1960.4	1611.2	1353.9	1182.4	1072.1	1026.1	971.0	964.9	952.6
15°	2554.6	2324.9	1874.6	1479.5	1209.9	1050.6	955.7	912.8	873.0	866.9	860.7
17.5°	2594.4	2318.8	1788.8	1357.0	1090.5	946.5	863.8	830.1	799.5	796.4	790.3
20°	2631.2	2315.7	1703.1	1252.8	998.6	860.7	796.4	765.8	741.3	741.3	738.2
22.5°	2668.0	2309.6	1620.4	1154.8	918.9	796.4	741.3	707.6	689.2	689.2	686.1
25°	2723.1	2309.6	1543.8	1072.1	854.6	747.4	692.3	667.8	652.4	649.4	649.4
27.5°	2787.4	2328.0	1476.4	998.6	799.5	698.4	655.5	631.0	612.6	606.5	609.6
30°	2857.9	2343.3	1415.2	934.2	747.4	661.6	615.7	591.2	572.8	566.7	569.7
32.5°	2928.3	2361.6	1360.0	876.0	695.3	627.9	582.0	554.4	536.0	533.0	533.0
35°	3004.9	2380.0	1304.9	827.0	652.4	594.2	551.4	520.7	508.5	502.3	505.4
37.5°	3081.5	2410.7	1252.8	781.1	621.8	563.6	523.8	493.2	484.0	480.9	480.9
40°	3173.4	2456.6	1231.4	750.5	594.2	536.0	502.3	471.7	462.5	462.5	462.5
42.5°	3249.9	2493.4	1213.0	716.8	572.8	511.5	480.9	456.4	450.3	447.2	450.3
45°	3326.5	2527.1	1188.5	686.1	545.2	487.0	462.5	438.0	431.9	431.9	431.9
47.5°	3403.1	2545.4	1154.8	655.5	520.7	465.6	444.1	422.7	416.6	416.6	416.6
50°	3464.4	2560.8	1105.8	621.8	493.2	447.2	425.8	404.3	398.2	398.2	398.2
52.5°	3525.6	2563.8	1053.7	582.0	465.6	425.8	407.4	386.0	379.8	376.8	376.8
55°	3580.8	2560.8	992.4	536.0	435.0	401.3	386.0	367.6	355.3	343.1	349.2
57.5°	3620.6	2557.7	922.0	490.1	404.3	376.8	370.6	346.1	321.6	291.0	297.1
60°	3605.3	2524.0	845.4	431.9	370.6	352.3	352.3	318.6	275.7	260.4	263.4
62.5°	3507.2	2429.0	765.8	370.6	336.9	327.8	324.7	287.9	254.2	238.9	242.0
65°	3213.2	2190.1	649.4	315.5	303.2	300.2	300.2	266.5	235.9	217.5	220.5
67.5°	2766.0	1837.9	529.9	266.5	269.6	275.7	275.7	245.0	214.4	196.0	199.1
70°	2217.7	1436.6	422.7	229.7	232.8	242.0	248.1	220.5	193.0	174.6	174.6
72.5°	1669.4	1090.5	340.0	193.0	208.3	208.3	217.5	196.0	168.5	150.1	153.2
75°	1209.9	781.1	269.6	162.3	180.7	177.7	177.7	165.4	144.0	131.7	131.7
77.5°	572.8	410.5	214.4	116.4	140.9	137.8	140.9	131.7	122.5	110.3	113.3
80°	281.8	202.2	137.8	82.7	98.0	101.1	110.3	104.1	101.1	91.9	91.9
82.5°	134.8	79.6	64.3	58.2	67.4	70.5	76.6	76.6	79.6	73.5	73.5
85°	36.8	21.4	27.6	36.8	42.9	45.9	52.1	55.1	55.1	52.1	55.1
87.5°	9.2	9.2	12.3	18.4	21.4	24.5	27.6	27.6	12.3	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)