

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: P836330

Luminaire Tested: **ARCH3-170-730-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836330
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: ARCH3-170-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1310mA 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: 15750 lumens
Efficiency: N/A
Efficacy: 92.3 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): 170.6
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



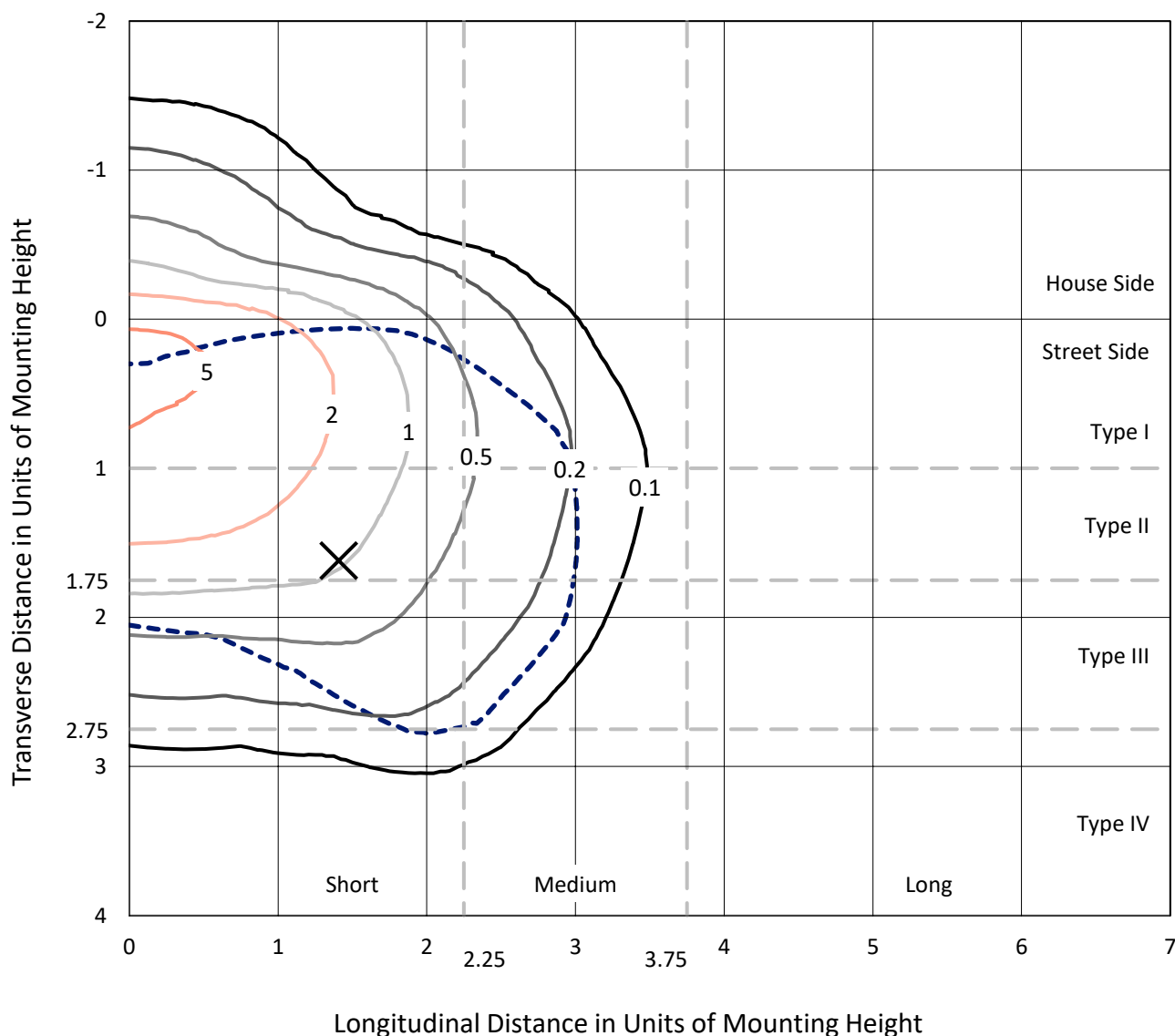
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

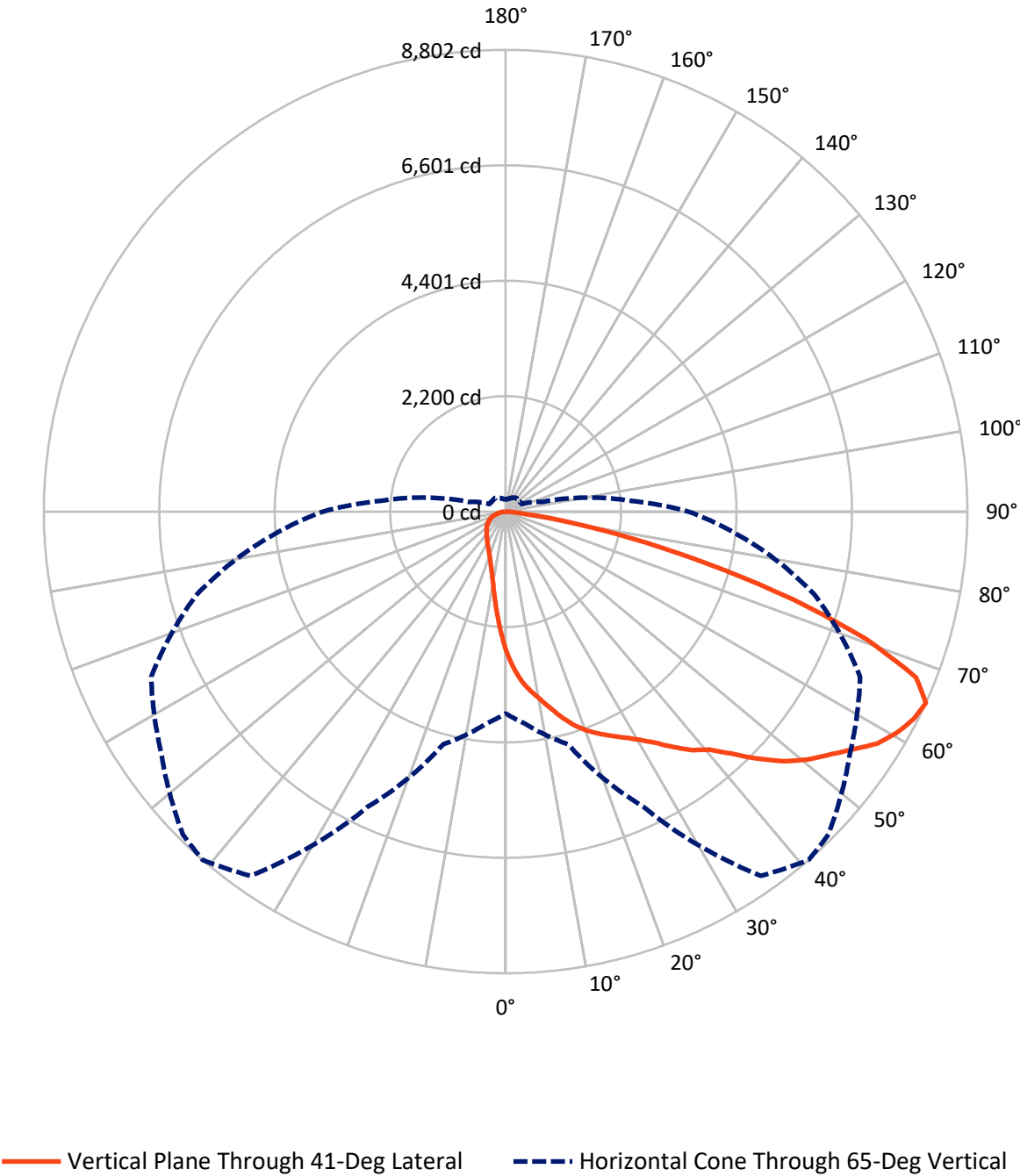


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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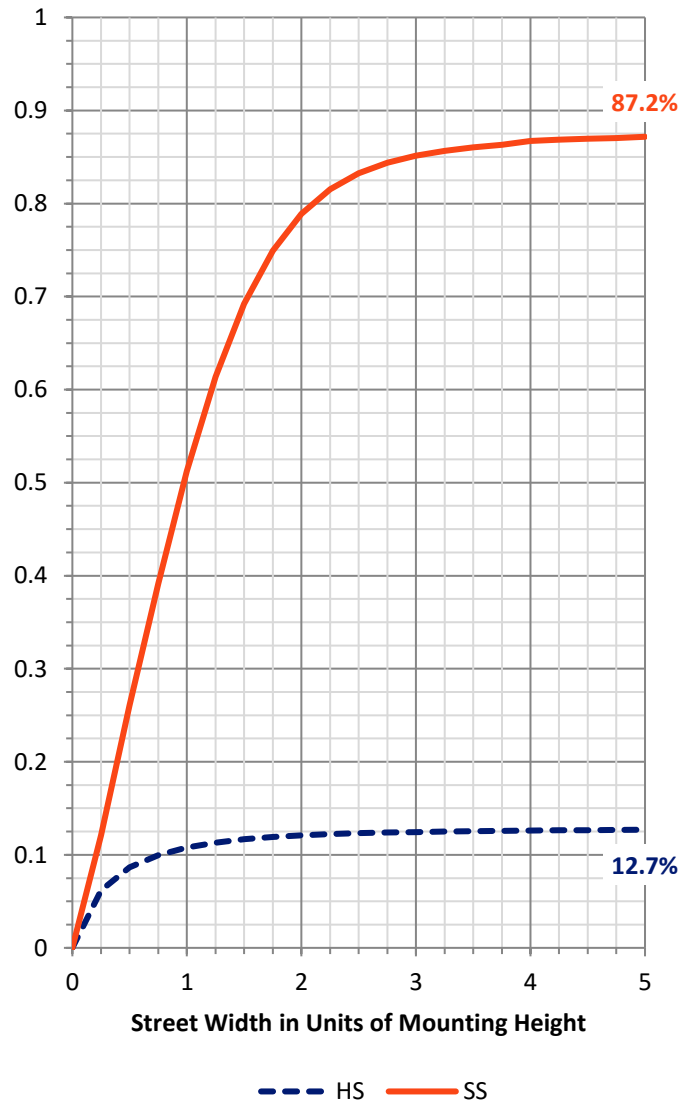
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2022.1	0.0	2022.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	13727.9	0.0	13727.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	15750.0	0.0	15750.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.1	1.6
10°-20°	749.8	4.8
20°-30°	1289.9	8.2
30°-40°	1956.4	12.4
40°-50°	2866.1	18.2
50°-60°	3619.3	23.0
60°-70°	3393.8	21.5
70°-80°	1512.6	9.6
80°-90°	112.1	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°	15750.0	100.0
0°-180°	15750.0	100.0

Coefficient of Utilization



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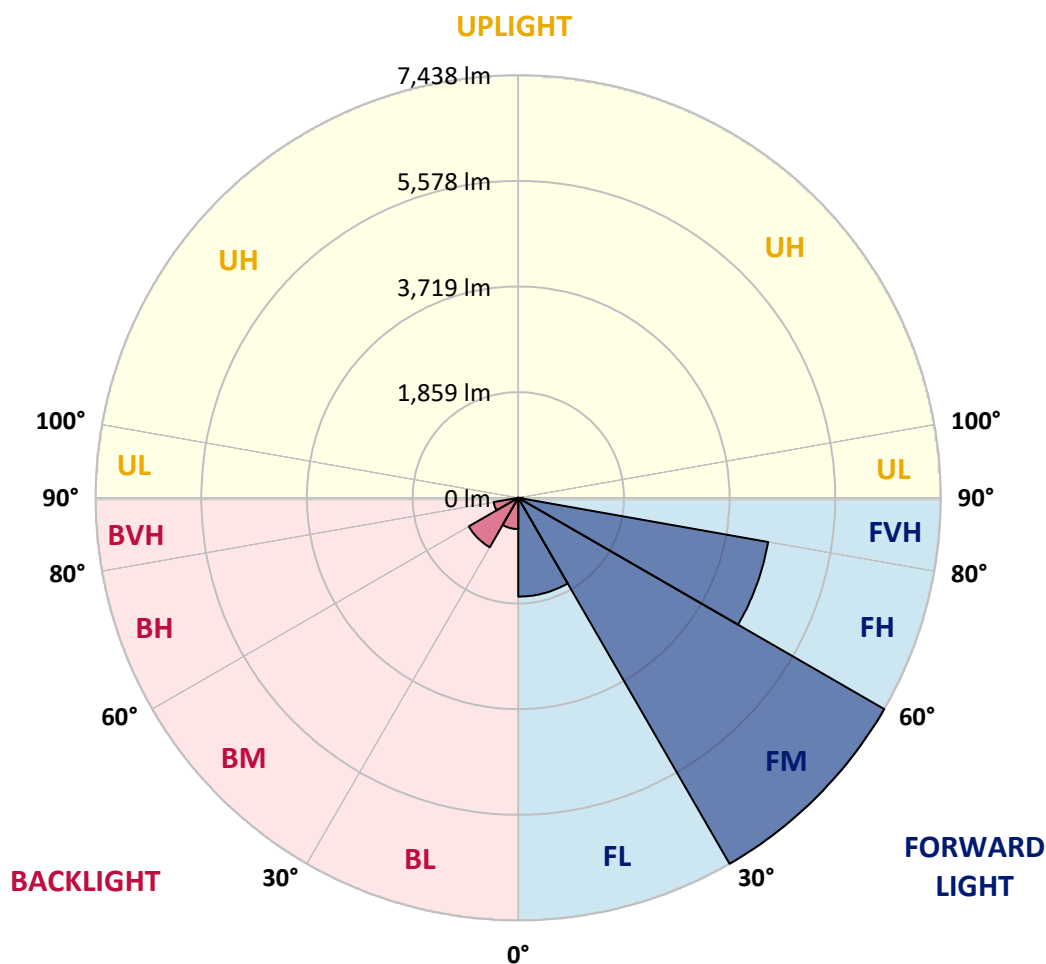
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1739.4	11.0			
FM	(30°-60°)	7437.8	47.2			
FH	(60°-80°)	4467.1	28.4			G2/5000
FVH	(80°-90°)	83.7	0.5			G1/100
BL	(0°-30°)	550.4	3.5	B2/1000		
BM	(30°-60°)	1004.1	6.4	B2/2500		
BH	(60°-80°)	439.3	2.8	B1/500		G1/500
BVH	(80°-90°)	28.4	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°	2683.7	2683.7	2683.7	2683.7	2683.7	2683.7	2683.7	2683.7	2683.7	2683.7	2683.7
2.5°	3095.6	3085.6	3079.0	3042.4	3042.4	2992.6	2995.9	2949.4	2893.0	2803.3	2707.0
5°	3387.9	3374.6	3358.0	3321.4	3308.1	3258.3	3251.7	3185.3	3088.9	2932.8	2760.1
7.5°	3643.6	3630.3	3607.1	3553.9	3517.4	3457.6	3441.0	3354.6	3248.4	3055.7	2813.3
10°	3876.1	3866.1	3836.3	3769.8	3720.0	3646.9	3617.0	3500.8	3367.9	3155.4	2856.4
12.5°	4111.9	4098.6	4058.8	4002.3	3942.5	3856.2	3819.6	3670.2	3500.8	3265.0	2919.5
15°	4331.1	4311.2	4281.3	4221.5	4168.4	4085.4	4045.5	3869.5	3663.5	3387.9	3002.6
17.5°	4474.0	4457.4	4430.8	4397.6	4354.4	4291.3	4251.4	4078.7	3826.3	3507.4	3088.9
20°	4560.3	4553.7	4543.7	4523.8	4503.9	4460.7	4430.8	4268.0	4002.3	3623.7	3172.0
22.5°	4626.8	4620.1	4616.8	4616.8	4620.1	4603.5	4583.6	4444.1	4171.7	3746.6	3248.4
25°	4729.7	4726.4	4719.8	4713.1	4736.4	4739.7	4733.0	4636.7	4384.3	3909.3	3344.7
27.5°	4872.5	4862.6	4849.3	4842.6	4865.9	4882.5	4895.8	4829.4	4610.1	4075.4	3454.3
30°	5091.8	5061.9	5028.6	5005.4	5022.0	5048.6	5078.5	5038.6	4842.6	4281.3	3567.2
32.5°	5350.8	5314.3	5237.9	5194.7	5237.9	5257.8	5281.1	5261.1	5085.1	4503.9	3680.1
35°	5666.4	5623.2	5543.5	5480.4	5556.8	5513.6	5503.6	5483.7	5314.3	4723.1	3806.4
37.5°	6191.2	6128.0	6001.8	5862.3	5862.3	5769.3	5732.8	5673.0	5520.2	4919.0	3929.3
40°	6799.0	6715.9	6553.2	6347.3	6157.9	5965.3	5942.0	5898.9	5762.7	5144.9	4068.8
42.5°	7466.6	7307.2	7081.3	6832.2	6526.6	6307.4	6254.3	6131.4	5998.5	5374.1	4208.3
45°	8207.3	7875.1	7546.3	7420.1	6915.2	6715.9	6616.3	6393.8	6244.3	5613.2	4354.4
47.5°	8326.8	8067.8	7848.5	7828.6	7277.3	7111.2	6998.3	6679.4	6510.0	5869.0	4507.2
50°	8260.4	8104.3	8127.5	8047.8	7543.0	7433.4	7347.0	6985.0	6772.4	6114.8	4646.7
52.5°	7981.4	8067.8	8200.6	8054.5	7795.4	7705.7	7662.5	7313.8	7018.2	6340.6	4772.9
55°	7649.3	7709.0	7994.7	8174.0	8087.7	8008.0	7968.1	7695.8	7260.7	6529.9	4889.1
57.5°	7164.3	7137.8	7453.3	8154.1	8393.3	8346.8	8303.6	8071.1	7486.5	6666.1	4962.2
60°	6436.9	6380.5	6779.0	7755.5	8492.9	8566.0	8546.0	8320.2	7659.2	6662.8	4932.3
62.5°	5178.1	5317.6	5869.0	7104.5	8536.1	8722.1	8685.5	8340.1	7715.7	6470.2	4743.0
65°	3849.5	4048.8	4590.2	6207.8	8476.3	8801.8	8702.2	8014.6	7453.3	6088.2	4327.8
67.5°	2773.4	2949.4	3344.7	5108.4	7901.7	8436.4	8320.2	7483.2	6848.8	5546.8	3753.2
70°	1896.5	2022.8	2291.8	3720.0	6745.8	7293.9	7220.8	6689.4	5895.5	4902.4	3049.1
72.5°	1338.5	1391.7	1564.4	2454.5	5125.0	5722.8	5636.5	5503.6	4736.4	4075.4	2371.5
75°	1003.1	1036.3	1129.3	1587.6	3457.6	3965.8	3886.1	3962.5	3537.3	3085.6	1727.1
77.5°	378.6	411.9	641.0	1013.0	2046.0	2434.6	2354.9	2401.4	1966.3	1557.8	860.3
80°	103.0	109.6	212.6	481.6	930.0	1212.3	1102.7	946.6	730.7	717.4	455.0
82.5°	43.2	49.8	96.3	259.1	332.1	332.1	279.0	345.4	279.0	335.5	219.2
85°	16.6	19.9	23.3	66.4	43.2	46.5	49.8	66.4	56.5	69.8	49.8
87.5°	0.0	0.0	0.0	3.3	3.3	6.6	3.3	6.6	10.0	10.0	10.0
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°	2683.7	2683.7	2683.7	2683.7	2683.7	2683.7	2683.7	2683.7	2683.7	2683.7	2683.7
2.5°	2667.1	2630.6	2577.4	2491.1	2401.4	2351.6	2288.5	2278.5	2212.1	2205.4	2178.9
5°	2683.7	2607.3	2471.1	2305.1	2142.3	2016.1	1923.1	1873.3	1777.0	1777.0	1750.4
7.5°	2697.0	2577.4	2358.2	2112.4	1889.9	1720.5	1594.3	1541.1	1454.8	1448.1	1428.2
10°	2700.3	2540.9	2235.3	1916.5	1644.1	1471.4	1348.5	1288.7	1212.3	1205.7	1192.4
12.5°	2726.9	2521.0	2125.7	1747.1	1468.1	1282.1	1162.5	1112.7	1052.9	1046.3	1033.0
15°	2770.1	2521.0	2032.7	1604.3	1312.0	1139.3	1036.3	989.8	946.6	940.0	933.3
17.5°	2813.3	2514.3	1939.7	1471.4	1182.4	1026.3	936.6	900.1	866.9	863.6	856.9
20°	2853.1	2511.0	1846.7	1358.5	1082.8	933.3	863.6	830.4	803.8	803.8	800.5
22.5°	2893.0	2504.4	1757.0	1252.2	996.4	863.6	803.8	767.3	747.3	747.3	744.0
25°	2952.8	2504.4	1674.0	1162.5	926.7	810.4	750.6	724.1	707.5	704.1	704.1
27.5°	3022.5	2524.3	1600.9	1082.8	866.9	757.3	710.8	684.2	664.3	657.6	661.0
30°	3098.9	2540.9	1534.5	1013.0	810.4	717.4	667.6	641.0	621.1	614.5	617.8
32.5°	3175.3	2560.8	1474.7	949.9	754.0	680.9	631.1	601.2	581.3	577.9	577.9
35°	3258.3	2580.8	1414.9	896.8	707.5	644.4	597.9	564.6	551.4	544.7	548.0
37.5°	3341.4	2614.0	1358.5	847.0	674.3	611.1	568.0	534.8	524.8	521.5	521.5
40°	3441.0	2663.8	1335.2	813.8	644.4	581.3	544.7	511.5	501.5	501.5	501.5
42.5°	3524.0	2703.6	1315.3	777.2	621.1	554.7	521.5	494.9	488.3	484.9	488.3
45°	3607.1	2740.2	1288.7	744.0	591.2	528.1	501.5	475.0	468.3	468.3	468.3
47.5°	3690.1	2760.1	1252.2	710.8	564.6	504.9	481.6	458.4	451.7	451.7	451.7
50°	3756.5	2776.7	1199.0	674.3	534.8	484.9	461.7	438.4	431.8	431.8	431.8
52.5°	3823.0	2780.0	1142.6	631.1	504.9	461.7	441.8	418.5	411.9	408.5	408.5
55°	3882.8	2776.7	1076.1	581.3	471.6	435.1	418.5	398.6	385.3	372.0	378.6
57.5°	3925.9	2773.4	999.8	531.4	438.4	408.5	401.9	375.3	348.8	315.5	322.2
60°	3909.3	2736.9	916.7	468.3	401.9	382.0	382.0	345.4	298.9	282.3	285.6
62.5°	3803.0	2633.9	830.4	401.9	365.4	355.4	352.1	312.2	275.7	259.1	262.4
65°	3484.2	2374.8	704.1	342.1	328.8	325.5	325.5	289.0	255.8	235.8	239.1
67.5°	2999.3	1992.9	574.6	289.0	292.3	298.9	298.9	265.7	232.5	212.6	215.9
70°	2404.7	1557.8	458.4	249.1	252.4	262.4	269.0	239.1	209.3	189.3	189.3
72.5°	1810.2	1182.4	368.7	209.3	225.9	225.9	235.8	212.6	182.7	162.8	166.1
75°	1312.0	847.0	292.3	176.0	196.0	192.6	192.6	179.4	156.1	142.8	142.8
77.5°	621.1	445.1	232.5	126.2	152.8	149.5	152.8	142.8	132.9	119.6	122.9
80°	305.6	219.2	149.5	89.7	106.3	109.6	119.6	112.9	109.6	99.6	99.6
82.5°	146.1	86.4	69.8	63.1	73.1	76.4	83.0	83.0	86.4	79.7	79.7
85°	39.9	23.3	29.9	39.9	46.5	49.8	56.5	59.8	59.8	56.5	59.8
87.5°	10.0	10.0	13.3	19.9	23.3	26.6	29.9	29.9	13.3	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)