

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: P836173

Luminaire Tested: **ARCH3-150-727-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-150-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14146 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - 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



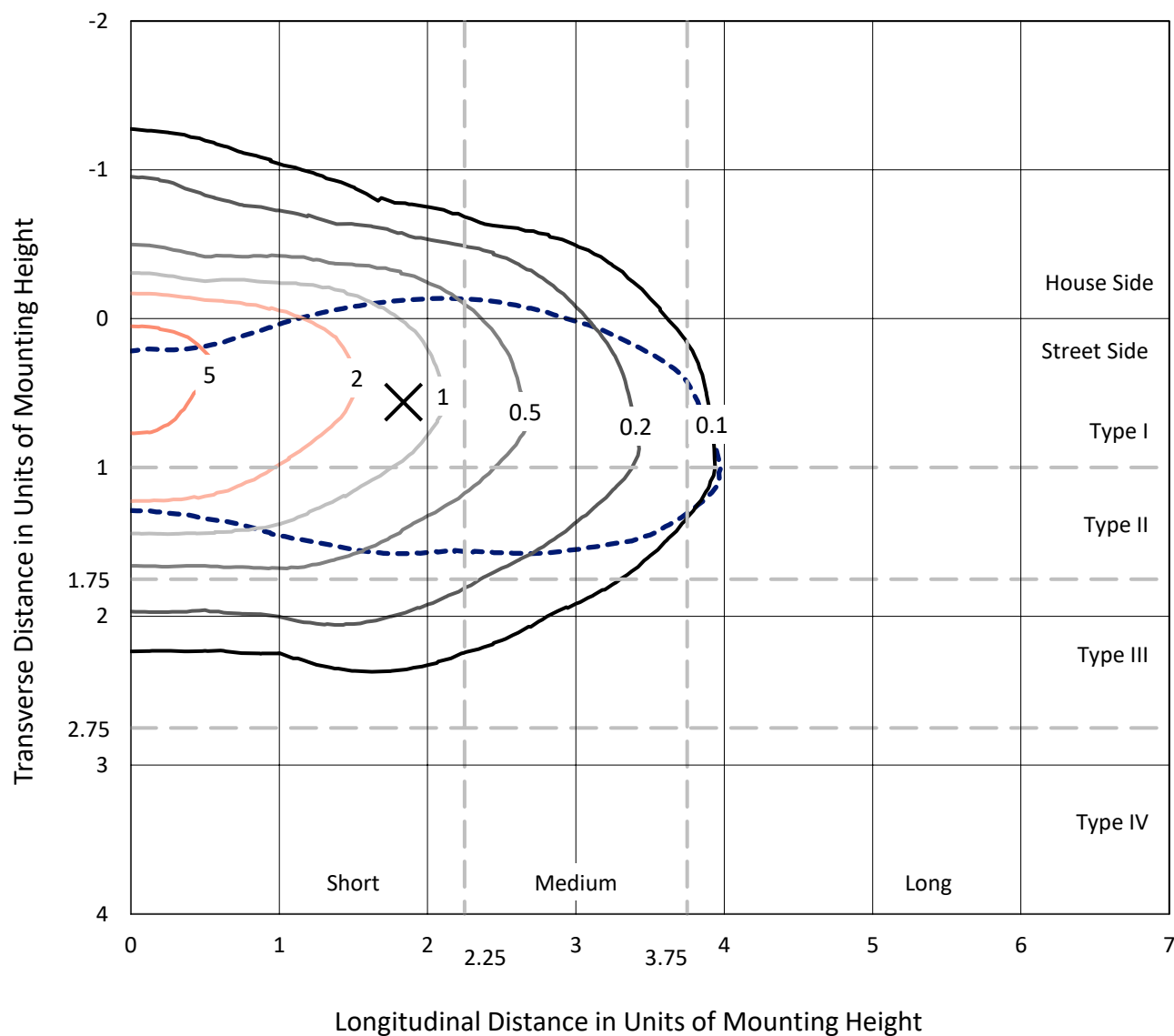
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

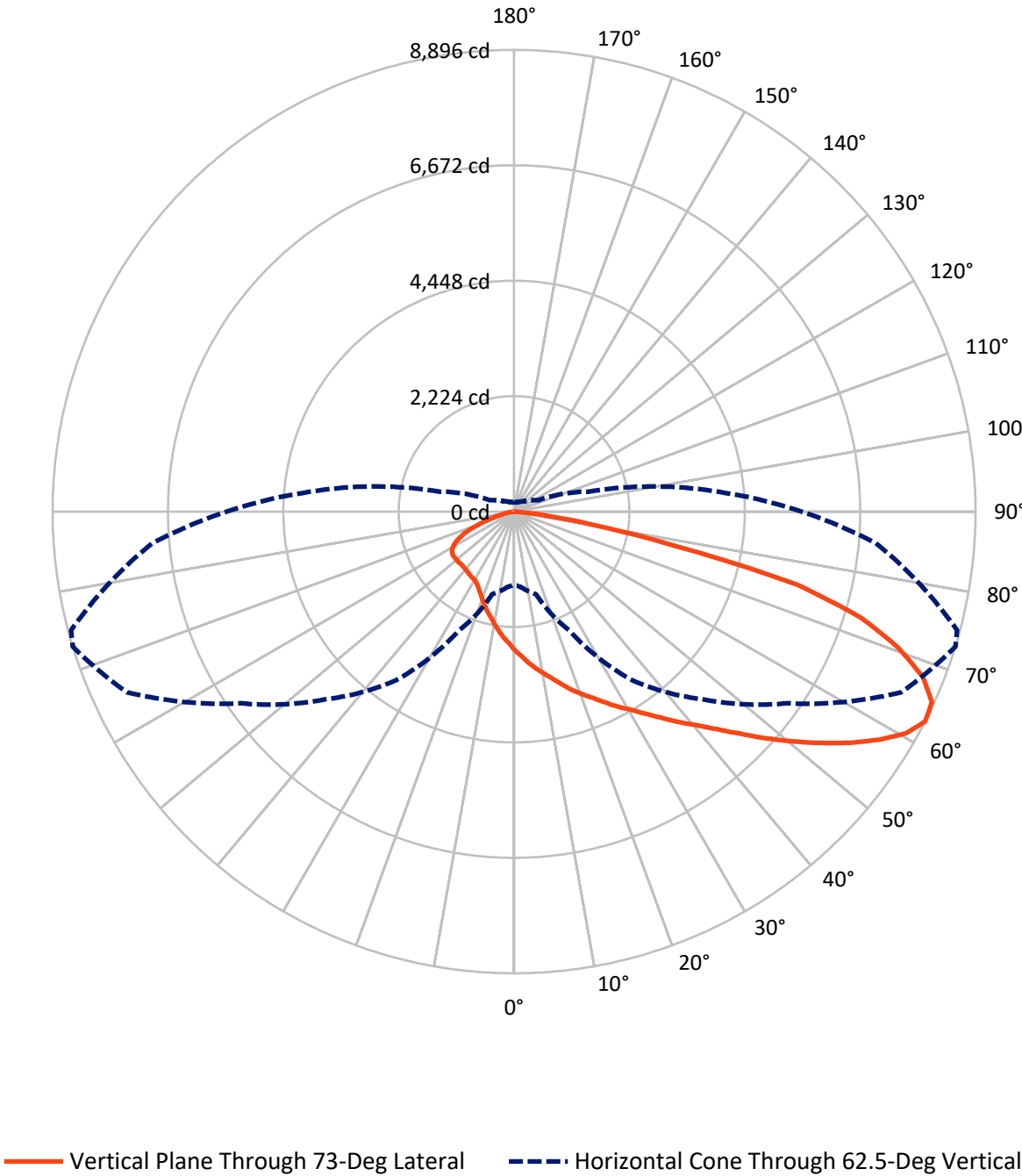


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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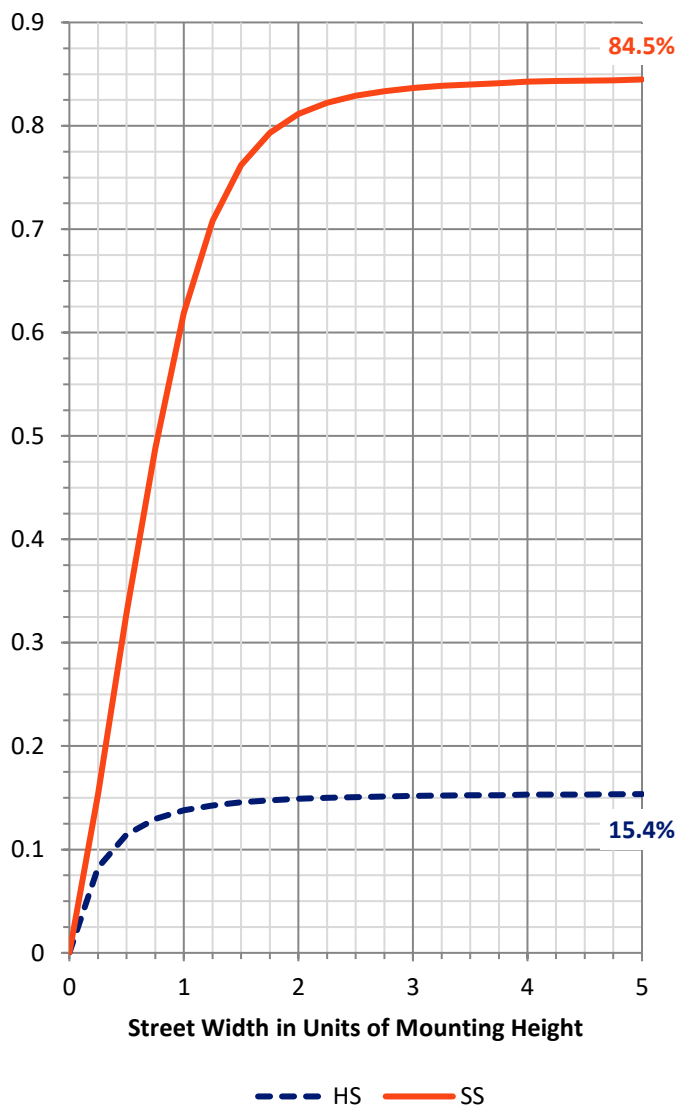
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2192.8	0.0	2192.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	11953.2	0.0	11953.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	14146.0	0.0	14146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.8	1.8
10°-20°	780.8	5.5
20°-30°	1299.7	9.2
30°-40°	1961.1	13.9
40°-50°	2741.1	19.4
50°-60°	3027.7	21.4
60°-70°	2637.5	18.6
70°-80°	1332.3	9.4
80°-90°	106.9	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°	14146.0	100.0
0°-180°	14146.0	100.0

Coefficient of Utilization



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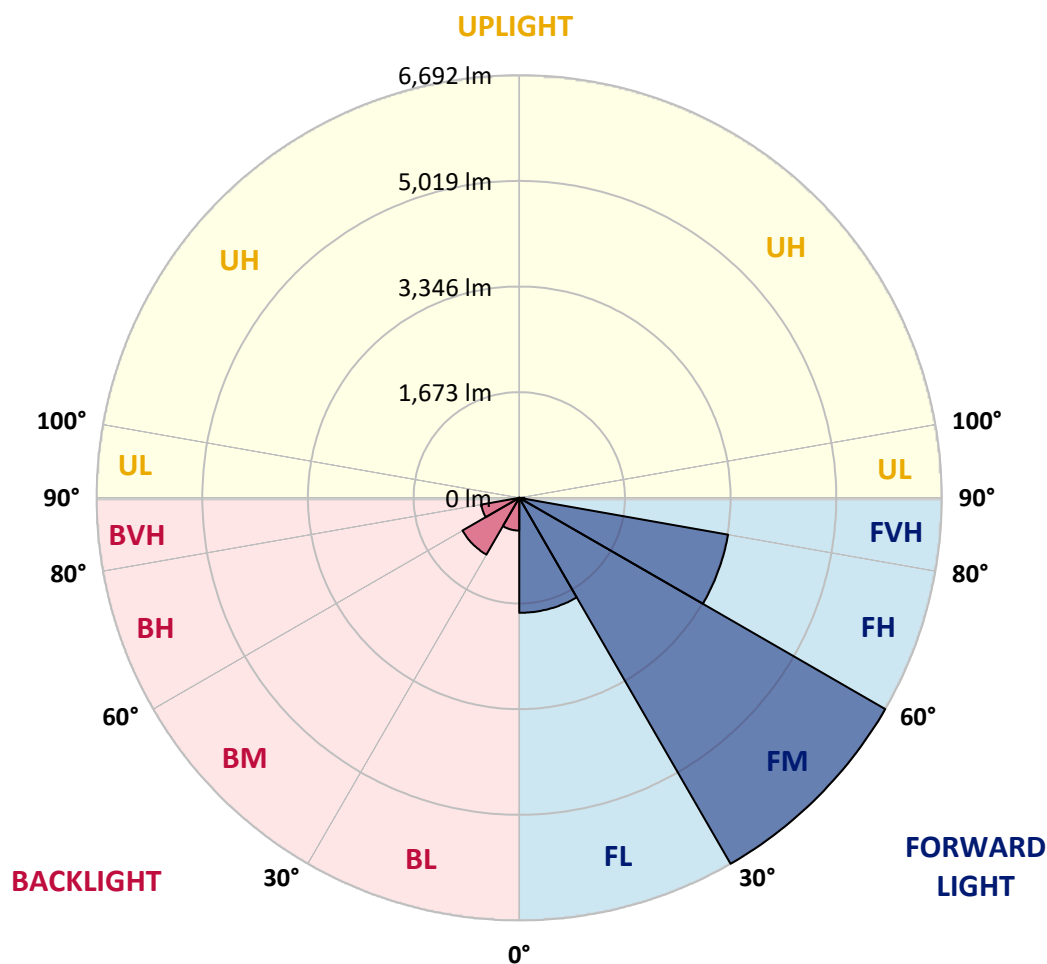
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1821.0	12.9			
FM	(30°-60°)	6691.6	47.3			
FH	(60°-80°)	3357.8	23.7			G2/5000
FVH	(80°-90°)	82.8	0.6			G1/100
BL	(0°-30°)	518.3	3.7	B2/1000		
BM	(30°-60°)	1038.3	7.3	B2/2500		
BH	(60°-80°)	612.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	24.2	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6
2.5°	3048.5	3082.4	3063.9	3076.2	3014.6	2974.5	2928.2	2838.9	2789.5	2783.4	2724.8
5°	3495.4	3532.4	3501.6	3492.3	3384.4	3292.0	3187.2	3030.0	2925.2	2906.7	2777.2
7.5°	3942.3	3976.3	3939.3	3911.5	3766.6	3603.3	3449.2	3218.0	3054.6	3023.8	2820.4
10°	4256.7	4287.6	4259.8	4232.1	4081.1	3914.6	3695.8	3393.7	3171.8	3122.4	2848.1
12.5°	4494.1	4512.6	4500.3	4475.6	4333.8	4155.0	3945.4	3591.0	3304.3	3242.6	2891.3
15°	4688.3	4719.1	4703.7	4685.2	4549.6	4370.8	4170.4	3797.5	3458.4	3381.4	2956.0
17.5°	4817.7	4839.3	4842.4	4842.4	4722.2	4546.5	4352.3	3985.5	3612.5	3513.9	3017.6
20°	4876.3	4901.0	4916.4	4941.0	4842.4	4691.4	4494.1	4145.8	3757.4	3646.4	3076.2
22.5°	4904.0	4925.6	4965.7	5021.2	4941.0	4814.7	4632.8	4293.7	3902.3	3785.1	3144.0
25°	4925.6	4953.4	5011.9	5116.7	5061.2	4953.4	4796.2	4463.3	4074.9	3954.7	3242.6
27.5°	4984.2	5018.1	5073.6	5199.9	5132.1	5079.7	4968.8	4645.1	4256.7	4133.5	3362.9
30°	5187.6	5215.4	5212.3	5292.4	5209.2	5193.8	5116.7	4820.8	4432.4	4309.1	3504.6
32.5°	5557.5	5585.2	5517.4	5486.6	5304.7	5307.8	5277.0	5008.8	4642.0	4515.7	3668.0
35°	5955.1	5986.0	5896.6	5844.2	5539.0	5449.6	5465.0	5243.1	4876.3	4749.9	3871.5
37.5°	6309.6	6346.6	6269.5	6192.5	5884.2	5677.7	5674.6	5505.1	5144.5	5015.0	4096.5
40°	6503.8	6546.9	6593.2	6550.0	6226.4	5998.3	5899.6	5773.3	5409.6	5277.0	4340.0
42.5°	6596.3	6716.5	6799.7	6772.0	6506.9	6275.7	6158.6	6053.8	5733.2	5603.7	4629.7
45°	6337.3	6340.4	6516.1	6667.2	6617.8	6463.7	6442.1	6368.2	6103.1	5979.8	4956.4
47.5°	6013.7	5989.0	6112.3	6380.5	6519.2	6559.3	6685.6	6716.5	6525.4	6402.1	5289.3
50°	5236.9	5252.3	5653.1	6038.4	6309.6	6568.5	6858.3	7074.0	6960.0	6842.9	5640.7
52.5°	4259.8	4296.8	4756.1	5603.7	6032.2	6476.0	6960.0	7431.6	7403.8	7292.9	5992.1
55°	3415.3	3473.8	3960.8	4879.4	5677.7	6269.5	7003.1	7758.3	7863.1	7761.4	6337.3
57.5°	2610.8	2672.4	3082.4	4025.6	5224.6	5933.6	6972.3	8045.0	8291.6	8226.8	6654.8
60°	1966.5	2028.2	2290.2	3264.2	4657.5	5557.5	6818.2	8233.0	8676.9	8609.0	6886.0
62.5°	1408.6	1458.0	1652.1	2539.9	3967.0	5110.6	6439.1	8236.1	8895.7	8840.2	6997.0
65°	1014.1	1014.1	1171.3	1812.4	3319.7	4574.2	5865.7	7856.9	8849.5	8834.1	6919.9
67.5°	730.5	736.7	863.1	1266.9	2647.8	3923.9	5122.9	7181.9	8491.9	8569.0	6642.5
70°	517.8	533.2	591.8	884.6	2000.5	3097.8	4327.6	6297.3	7847.7	7983.3	6106.2
72.5°	400.7	410.0	450.0	616.5	1461.0	2302.5	3449.2	5310.9	6987.7	7141.8	5375.6
75°	308.2	317.5	348.3	453.1	1048.0	1615.2	2450.5	4121.1	5634.6	5908.9	4318.4
77.5°	225.0	237.3	258.9	329.8	610.3	1026.4	1485.7	2317.9	3110.1	3239.6	2262.5
80°	104.8	120.2	151.0	212.7	329.8	483.9	527.1	893.9	1494.9	1562.8	1226.8
82.5°	58.6	74.0	86.3	129.5	166.4	172.6	178.8	225.0	564.1	622.6	514.8
85°	27.7	37.0	40.1	55.5	55.5	49.3	58.6	43.2	92.5	111.0	107.9
87.5°	0.0	3.1	6.2	15.4	12.3	9.2	9.2	9.2	9.2	12.3	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°	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6
2.5°	2697.1	2657.0	2564.5	2484.4	2432.0	2385.8	2324.1	2296.4	2247.0	2256.3	2228.5
5°	2712.5	2638.5	2475.1	2324.1	2213.1	2114.5	2006.6	1945.0	1877.2	1871.0	1849.4
7.5°	2721.7	2607.7	2373.4	2160.7	1991.2	1840.2	1695.3	1615.2	1531.9	1513.4	1494.9
10°	2712.5	2561.4	2268.6	1991.2	1766.2	1578.2	1414.8	1313.1	1226.8	1205.2	1186.7
12.5°	2721.7	2536.8	2170.0	1834.0	1565.8	1353.2	1168.2	1063.4	983.3	961.7	949.4
15°	2743.3	2521.4	2086.8	1692.2	1387.1	1149.7	967.9	878.5	813.7	792.2	786.0
17.5°	2761.8	2506.0	1997.4	1553.5	1208.3	970.9	813.7	739.8	684.3	662.7	656.5
20°	2786.5	2484.4	1908.0	1421.0	1051.1	829.2	690.4	625.7	582.6	567.2	564.1
22.5°	2808.0	2469.0	1824.8	1288.4	906.2	715.1	598.0	545.6	514.8	499.3	499.3
25°	2863.5	2475.1	1753.9	1165.1	798.3	625.7	527.1	487.0	462.4	453.1	453.1
27.5°	2928.2	2499.8	1698.4	1060.3	705.9	557.9	477.8	443.9	431.5	419.2	422.3
30°	3020.7	2549.1	1661.4	974.0	638.0	505.5	437.7	413.0	400.7	397.6	397.6
32.5°	3137.8	2629.3	1658.3	918.5	588.7	465.4	410.0	388.4	382.2	379.1	379.1
35°	3276.6	2700.2	1639.8	893.9	557.9	437.7	388.4	373.0	369.9	369.9	369.9
37.5°	3443.0	2817.3	1627.5	860.0	542.5	422.3	373.0	360.6	360.6	360.6	360.6
40°	3615.6	2912.8	1609.0	829.2	536.3	413.0	363.7	348.3	348.3	348.3	348.3
42.5°	3822.1	3051.5	1602.8	813.7	527.1	406.9	351.4	332.9	336.0	336.0	339.1
45°	4071.8	3208.7	1599.7	798.3	524.0	400.7	339.1	317.5	320.6	317.5	317.5
47.5°	4324.6	3390.6	1609.0	789.1	520.9	394.5	329.8	302.1	302.1	299.0	299.0
50°	4589.6	3557.0	1615.2	779.8	514.8	382.2	314.4	289.7	283.6	277.4	280.5
52.5°	4839.3	3711.2	1618.2	764.4	496.3	363.7	302.1	274.3	265.1	255.8	258.9
55°	5089.0	3859.1	1624.4	745.9	471.6	345.2	286.7	258.9	246.6	234.3	234.3
57.5°	5314.0	3988.6	1609.0	699.7	443.9	326.7	271.2	240.4	221.9	209.6	209.6
60°	5468.1	4081.1	1562.8	631.9	406.9	305.2	255.8	221.9	200.4	191.1	191.1
62.5°	5542.1	4096.5	1479.5	520.9	360.6	283.6	237.3	203.4	184.9	178.8	178.8
65°	5471.2	4028.7	1350.1	391.5	311.3	258.9	218.8	188.0	169.5	154.1	154.1
67.5°	5224.6	3837.5	1171.3	295.9	265.1	234.3	200.4	172.6	151.0	138.7	138.7
70°	4728.3	3439.9	906.2	237.3	225.0	203.4	181.9	154.1	135.6	120.2	120.2
72.5°	4078.0	2915.9	638.0	191.1	191.1	172.6	154.1	135.6	117.1	104.8	104.8
75°	3128.6	2157.7	428.4	154.1	157.2	144.9	126.4	111.0	98.6	89.4	89.4
77.5°	1707.6	1066.5	262.0	114.0	117.1	111.0	98.6	89.4	83.2	74.0	74.0
80°	829.2	468.5	151.0	80.1	83.2	80.1	74.0	64.7	64.7	58.6	58.6
82.5°	348.3	175.7	80.1	55.5	55.5	49.3	46.2	46.2	46.2	43.2	43.2
85°	86.3	33.9	33.9	30.8	30.8	30.8	27.7	27.7	27.7	21.6	24.7
87.5°	12.3	12.3	12.3	12.3	12.3	12.3	9.2	3.1	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)