

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: P841867

Luminaire Tested: **ARCH4-240-722-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841867
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: ARCH4-240-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 940mA 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: 21862 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 240.2
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



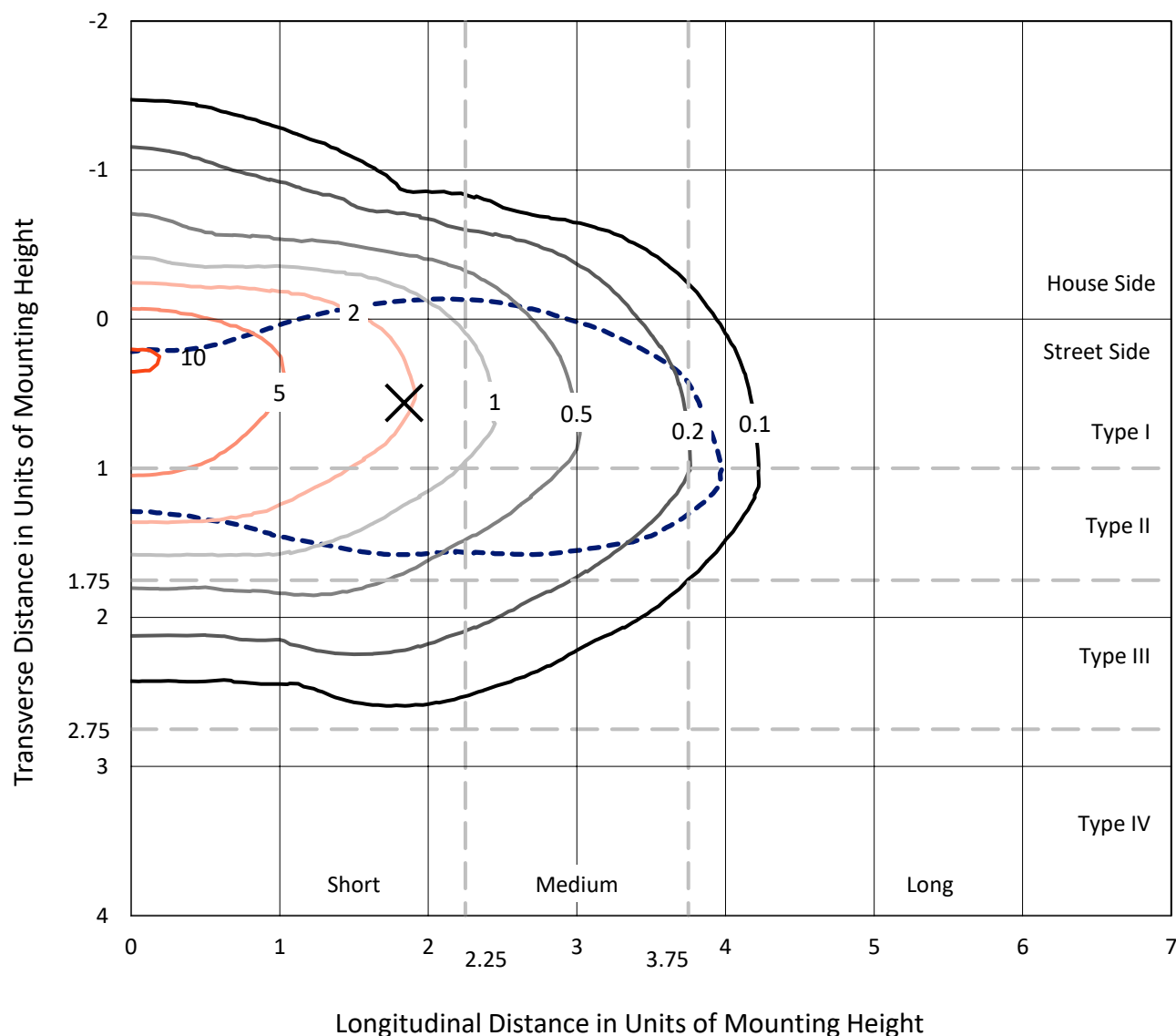
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

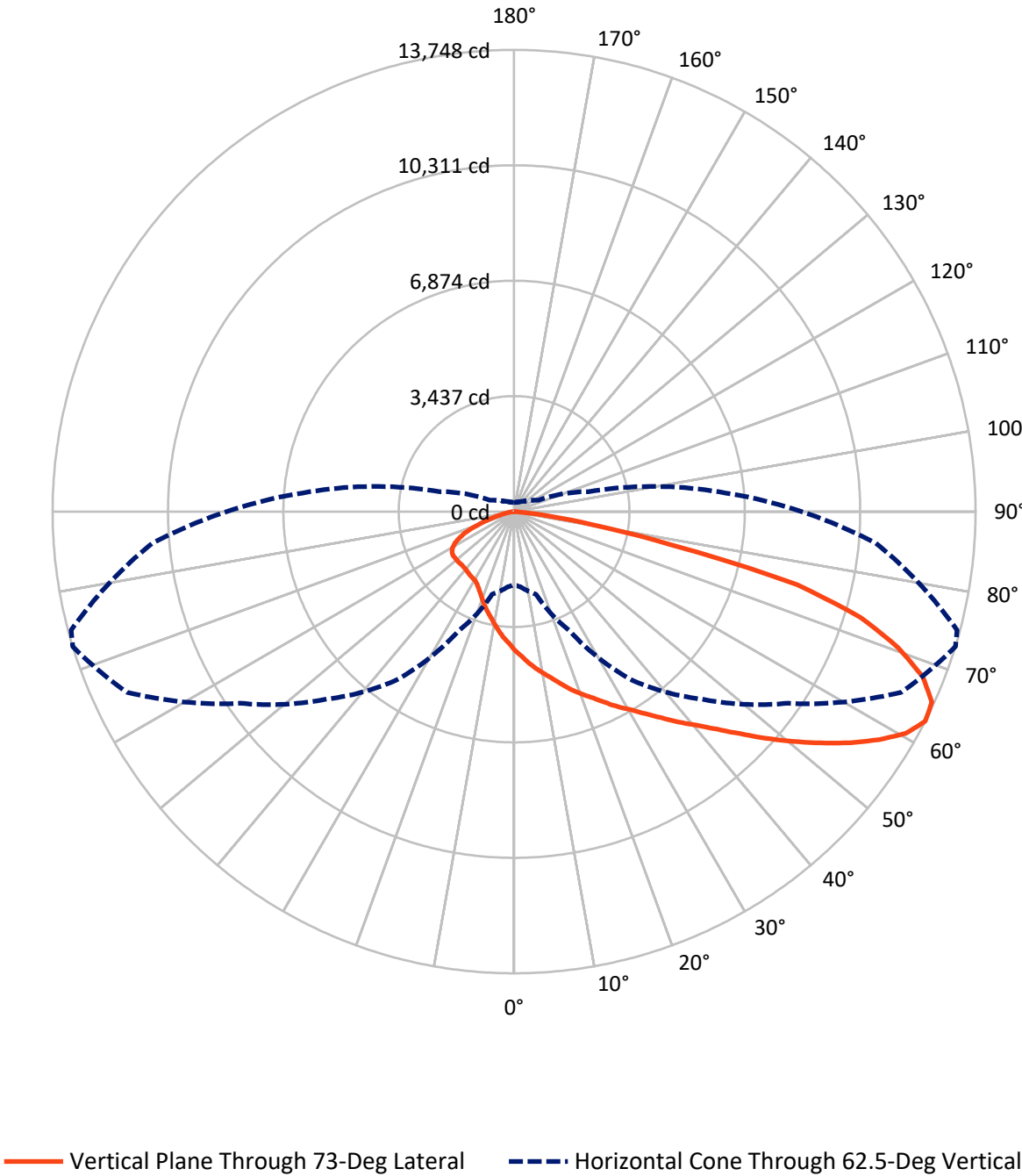


Based on 25 foot mounting height. Maximum calculated value = 10.4 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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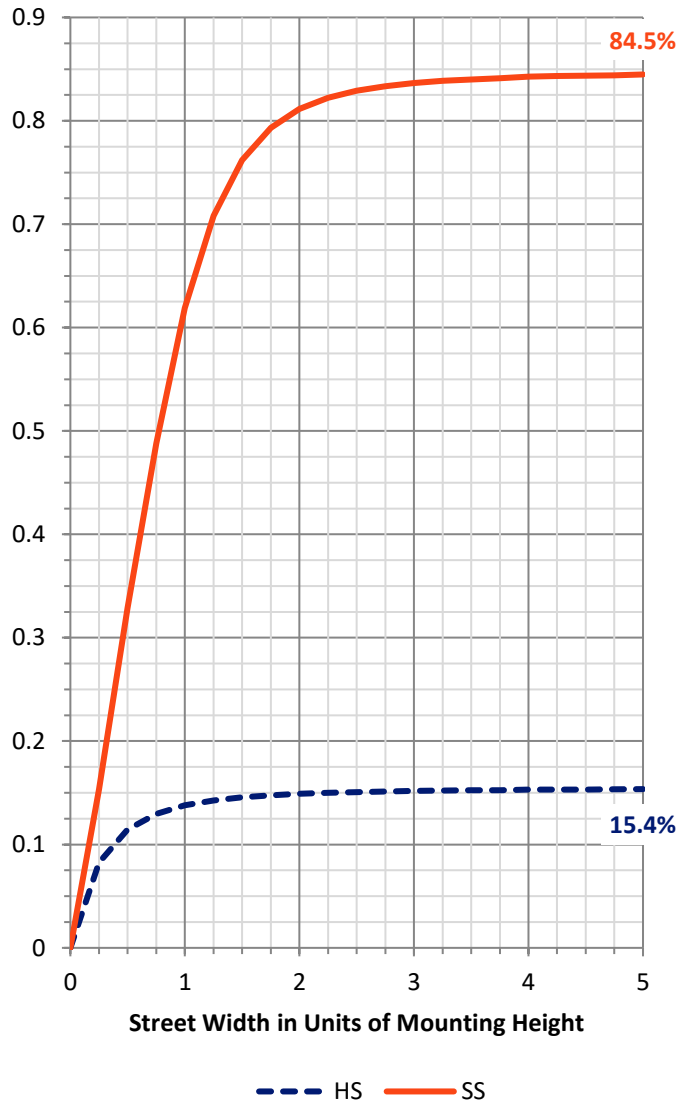
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3388.9	0.0	3388.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	18473.1	0.0	18473.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	21862.0	0.0	21862.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.9	1.8
10°-20°	1206.8	5.5
20°-30°	2008.7	9.2
30°-40°	3030.8	13.9
40°-50°	4236.2	19.4
50°-60°	4679.2	21.4
60°-70°	4076.2	18.6
70°-80°	2059.0	9.4
80°-90°	165.3	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°	21862.0	100.0
0°-180°	21862.0	100.0

Coefficient of Utilization



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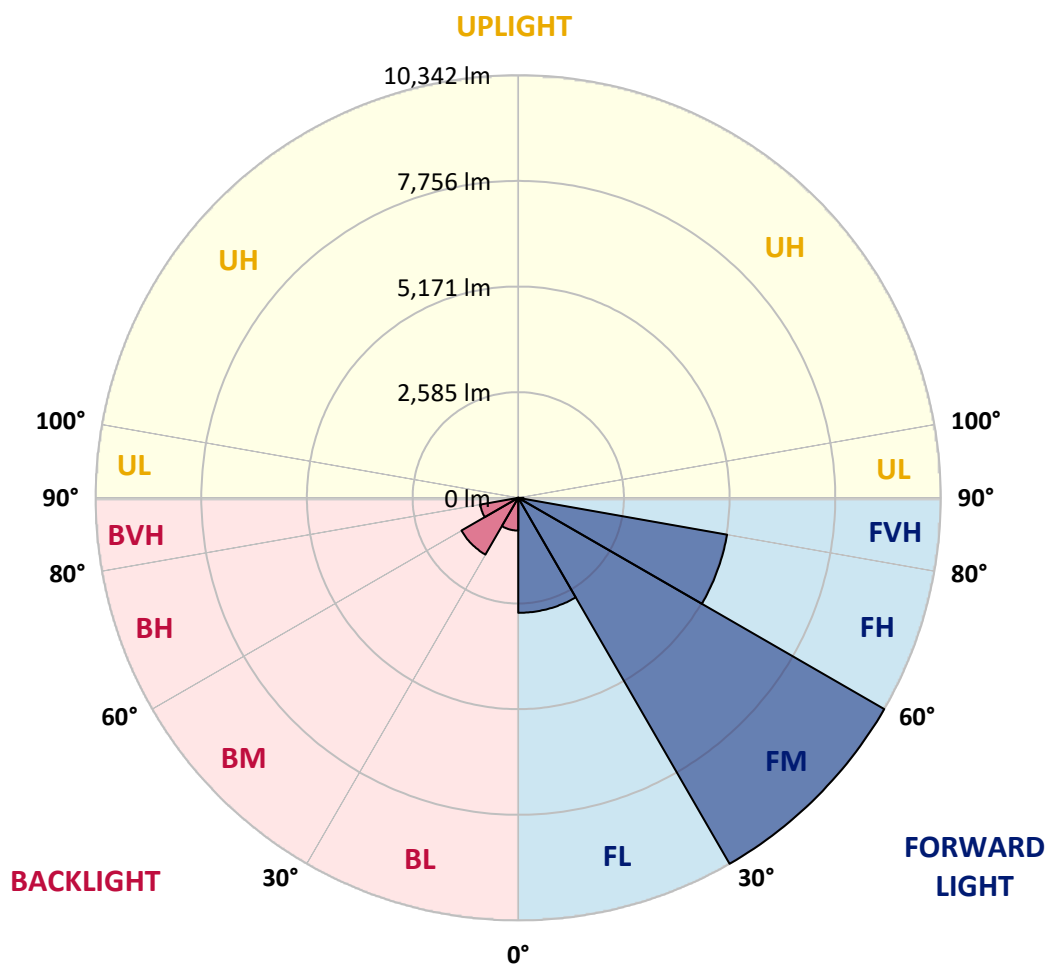
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2814.3	12.9			
FM	(30°-60°)	10341.5	47.3			
FH	(60°-80°)	5189.3	23.7			G3/7500
FVH	(80°-90°)	127.9	0.6			G2/225
BL	(0°-30°)	801.0	3.7	B2/1000		
BM	(30°-60°)	1604.6	7.3	B2/2500		
BH	(60°-80°)	945.9	4.3	B2/1000		G2/1000
BVH	(80°-90°)	37.4	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	4139.6	4139.6	4139.6	4139.6	4139.6	4139.6	4139.6	4139.6	4139.6	4139.6	4139.6
2.5°	4711.3	4763.7	4735.1	4754.1	4658.9	4596.9	4525.5	4387.3	4311.1	4301.6	4211.1
5°	5402.0	5459.1	5411.5	5397.2	5230.5	5087.6	4925.6	4682.7	4520.7	4492.1	4292.1
7.5°	6092.7	6145.1	6088.0	6045.1	5821.2	5568.7	5330.5	4973.3	4720.8	4673.1	4358.7
10°	6578.6	6626.2	6583.4	6540.5	6307.1	6049.8	5711.6	5244.8	4901.8	4825.6	4401.6
12.5°	6945.4	6974.0	6954.9	6916.8	6697.7	6421.4	6097.5	5549.7	5106.6	5011.4	4468.3
15°	7245.5	7293.2	7269.3	7240.8	7031.2	6754.9	6445.2	5868.8	5344.8	5225.7	4568.3
17.5°	7445.6	7478.9	7483.7	7483.7	7297.9	7026.4	6726.3	6159.4	5583.0	5430.6	4663.6
20°	7536.1	7574.2	7598.0	7636.1	7483.7	7250.3	6945.4	6407.1	5806.9	5635.4	4754.1
22.5°	7579.0	7612.3	7674.2	7760.0	7636.1	7440.8	7159.8	6635.8	6030.8	5849.8	4858.9
25°	7612.3	7655.2	7745.7	7907.7	7821.9	7655.2	7412.2	6897.8	6297.6	6111.8	5011.4
27.5°	7702.8	7755.2	7841.0	8036.3	7931.5	7850.5	7679.0	7178.8	6578.6	6388.1	5197.1
30°	8017.2	8060.1	8055.3	8179.2	8050.6	8026.8	7907.7	7450.4	6850.1	6659.6	5416.3
32.5°	8588.9	8631.7	8526.9	8479.3	8198.2	8203.0	8155.4	7740.9	7174.1	6978.8	5668.7
35°	9203.4	9251.0	9112.9	9031.9	8560.3	8422.1	8446.0	8103.0	7536.1	7340.8	5983.2
37.5°	9751.2	9808.4	9689.3	9570.2	9093.8	8774.7	8769.9	8507.9	7950.5	7750.5	6330.9
40°	10051.3	10118.0	10189.5	10122.8	9622.6	9270.1	9117.6	8922.3	8360.2	8155.4	6707.2
42.5°	10194.2	10380.0	10508.6	10465.7	10056.1	9698.8	9517.8	9355.8	8860.4	8660.3	7155.0
45°	9794.1	9798.8	10070.4	10303.8	10227.6	9989.4	9956.0	9841.7	9432.0	9241.5	7660.0
47.5°	9293.9	9255.8	9446.3	9860.8	10075.1	10137.1	10332.4	10380.0	10084.7	9894.1	8174.4
50°	8093.4	8117.3	8736.5	9332.0	9751.2	10151.3	10599.1	10932.6	10756.3	10575.3	8717.5
52.5°	6583.4	6640.5	7350.3	8660.3	9322.5	10008.4	10756.3	11485.2	11442.3	11270.8	9260.5
55°	5278.1	5368.6	6121.3	7540.9	8774.7	9689.3	10823.0	11990.1	12152.1	11994.9	9794.1
57.5°	4034.8	4130.1	4763.7	6221.3	8074.4	9170.0	10775.4	12433.1	12814.2	12714.2	10284.7
60°	3039.2	3134.5	3539.4	5044.7	7197.9	8588.9	10537.2	12723.7	13409.7	13304.9	10642.0
62.5°	2177.0	2253.2	2553.3	3925.3	6130.8	7898.1	9951.3	12728.5	13747.9	13662.2	10813.5
65°	1567.2	1567.2	1810.2	2801.0	5130.5	7069.3	9065.2	12142.6	13676.5	13652.6	10694.4
67.5°	1129.0	1138.5	1333.8	1957.9	4092.0	6064.1	7917.2	11099.3	13123.9	13243.0	10265.7
70°	800.3	824.1	914.6	1367.2	3091.6	4787.5	6688.2	9732.1	12128.3	12337.9	9436.8
72.5°	619.3	633.6	695.5	952.7	2258.0	3558.5	5330.5	8207.8	10799.2	11037.4	8307.8
75°	476.4	490.7	538.3	700.3	1619.6	2496.2	3787.1	6369.0	8708.0	9131.9	6673.9
77.5°	347.7	366.8	400.1	509.7	943.2	1586.3	2296.1	3582.3	4806.5	5006.6	3496.5
80°	162.0	185.8	233.4	328.7	509.7	747.9	814.6	1381.5	2310.4	2415.2	1895.9
82.5°	90.5	114.3	133.4	200.1	257.2	266.8	276.3	347.7	871.7	962.3	795.5
85°	42.9	57.2	61.9	85.7	85.7	76.2	90.5	66.7	142.9	171.5	166.7
87.5°	0.0	4.8	9.5	23.8	19.1	14.3	14.3	14.3	14.3	19.1	14.3
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°	4139.6	4139.6	4139.6	4139.6	4139.6	4139.6	4139.6	4139.6	4139.6	4139.6	4139.6
2.5°	4168.2	4106.3	3963.4	3839.5	3758.5	3687.1	3591.8	3548.9	3472.7	3487.0	3444.1
5°	4192.0	4077.7	3825.2	3591.8	3420.3	3267.9	3101.1	3005.9	2901.1	2891.5	2858.2
7.5°	4206.3	4030.1	3668.0	3339.3	3077.3	2843.9	2620.0	2496.2	2367.5	2339.0	2310.4
10°	4192.0	3958.6	3506.0	3077.3	2729.6	2439.0	2186.5	2029.3	1895.9	1862.6	1834.0
12.5°	4206.3	3920.5	3353.6	2834.4	2419.9	2091.2	1805.4	1643.5	1519.6	1486.3	1467.2
15°	4239.7	3896.7	3225.0	2615.2	2143.6	1776.8	1495.8	1357.6	1257.6	1224.3	1214.7
17.5°	4268.2	3872.9	3086.8	2400.9	1867.4	1500.6	1257.6	1143.3	1057.5	1024.2	1014.7
20°	4306.3	3839.5	2948.7	2196.0	1624.4	1281.4	1067.1	967.0	900.3	876.5	871.7
22.5°	4339.7	3815.7	2820.1	1991.2	1400.5	1105.2	924.1	843.2	795.5	771.7	771.7
25°	4425.4	3825.2	2710.5	1800.7	1233.8	967.0	814.6	752.7	714.5	700.3	700.3
27.5°	4525.5	3863.3	2624.8	1638.7	1090.9	862.2	738.4	686.0	666.9	647.9	652.6
30°	4668.4	3939.5	2567.6	1505.3	986.1	781.2	676.4	638.3	619.3	614.5	614.5
32.5°	4849.4	4063.4	2562.8	1419.6	909.9	719.3	633.6	600.2	590.7	585.9	585.9
35°	5063.8	4173.0	2534.3	1381.5	862.2	676.4	600.2	576.4	571.6	571.6	571.6
37.5°	5321.0	4354.0	2515.2	1329.1	838.4	652.6	576.4	557.3	557.3	557.3	557.3
40°	5587.8	4501.7	2486.6	1281.4	828.9	638.3	562.1	538.3	538.3	538.3	538.3
42.5°	5906.9	4716.0	2477.1	1257.6	814.6	628.8	543.1	514.5	519.2	519.2	524.0
45°	6292.8	4959.0	2472.3	1233.8	809.8	619.3	524.0	490.7	495.4	490.7	490.7
47.5°	6683.4	5240.0	2486.6	1219.5	805.1	609.7	509.7	466.8	466.8	462.1	462.1
50°	7093.1	5497.3	2496.2	1205.2	795.5	590.7	485.9	447.8	438.3	428.7	433.5
52.5°	7478.9	5735.4	2500.9	1181.4	766.9	562.1	466.8	424.0	409.7	395.4	400.1
55°	7864.8	5964.1	2510.4	1152.8	728.8	533.5	443.0	400.1	381.1	362.0	362.0
57.5°	8212.5	6164.2	2486.6	1081.3	686.0	504.9	419.2	371.6	343.0	323.9	323.9
60°	8450.7	6307.1	2415.2	976.5	628.8	471.6	395.4	343.0	309.6	295.3	295.3
62.5°	8565.1	6330.9	2286.6	805.1	557.3	438.3	366.8	314.4	285.8	276.3	276.3
65°	8455.5	6226.1	2086.5	605.0	481.1	400.1	338.2	290.6	262.0	238.2	238.2
67.5°	8074.4	5930.8	1810.2	457.3	409.7	362.0	309.6	266.8	233.4	214.4	214.4
70°	7307.4	5316.2	1400.5	366.8	347.7	314.4	281.1	238.2	209.6	185.8	185.8
72.5°	6302.3	4506.4	986.1	295.3	295.3	266.8	238.2	209.6	181.0	162.0	162.0
75°	4835.1	3334.6	662.1	238.2	242.9	223.9	195.3	171.5	152.4	138.1	138.1
77.5°	2639.1	1648.2	404.9	176.3	181.0	171.5	152.4	138.1	128.6	114.3	114.3
80°	1281.4	724.1	233.4	123.9	128.6	123.9	114.3	100.0	100.0	90.5	90.5
82.5°	538.3	271.5	123.9	85.7	85.7	76.2	71.5	71.5	71.5	66.7	66.7
85°	133.4	52.4	52.4	47.6	47.6	47.6	42.9	42.9	42.9	33.3	38.1
87.5°	19.1	19.1	19.1	19.1	19.1	19.1	14.3	4.8	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)