

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: P841365

Luminaire Tested: **ARCH4-170-722-U-T3-HSS**

Issue Date: 5/27/2024

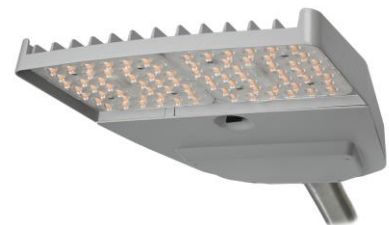
Test Information

Test Method: LM-79-08
Report Number: P841365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-170-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16170 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 169.8
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

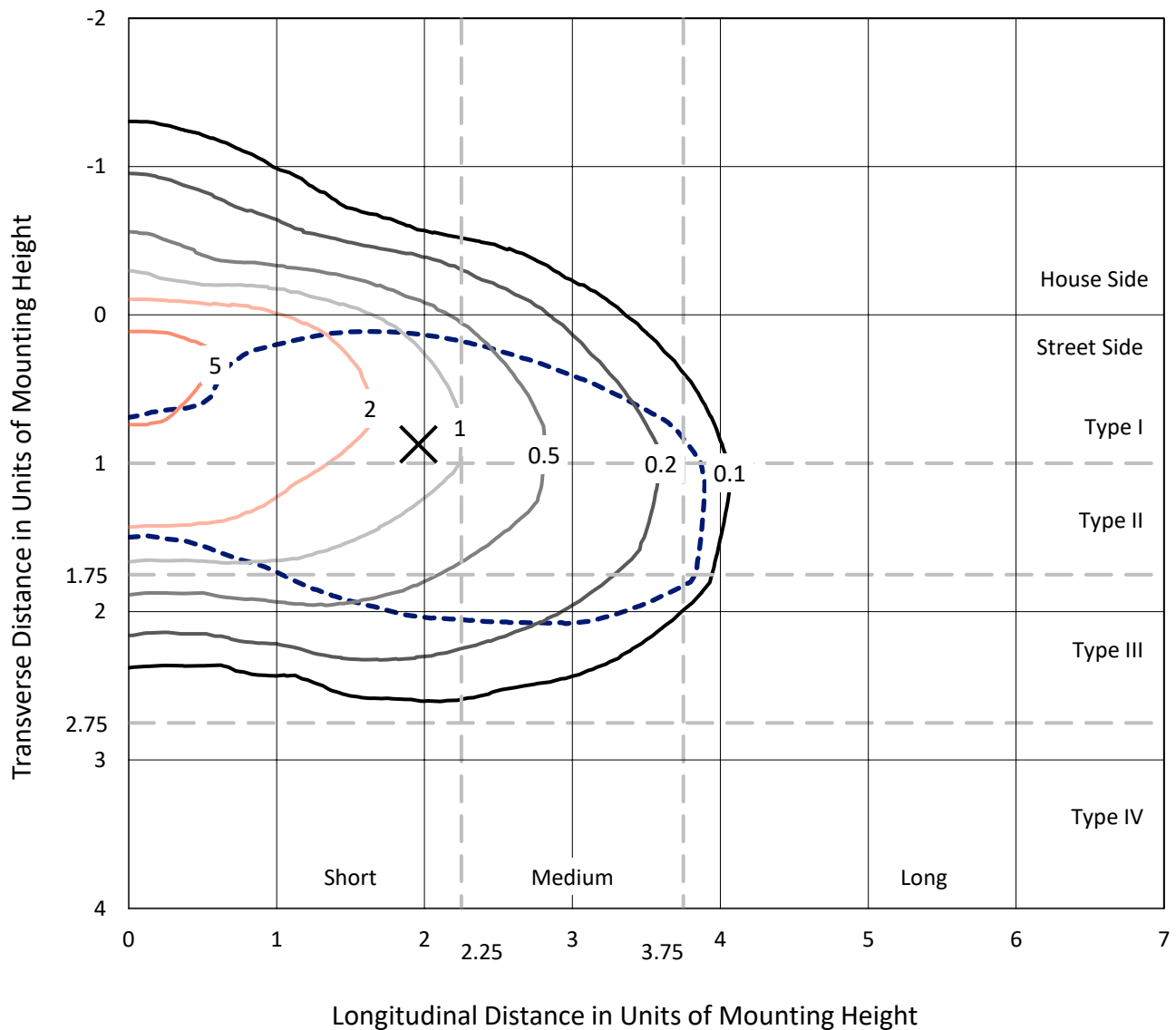


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

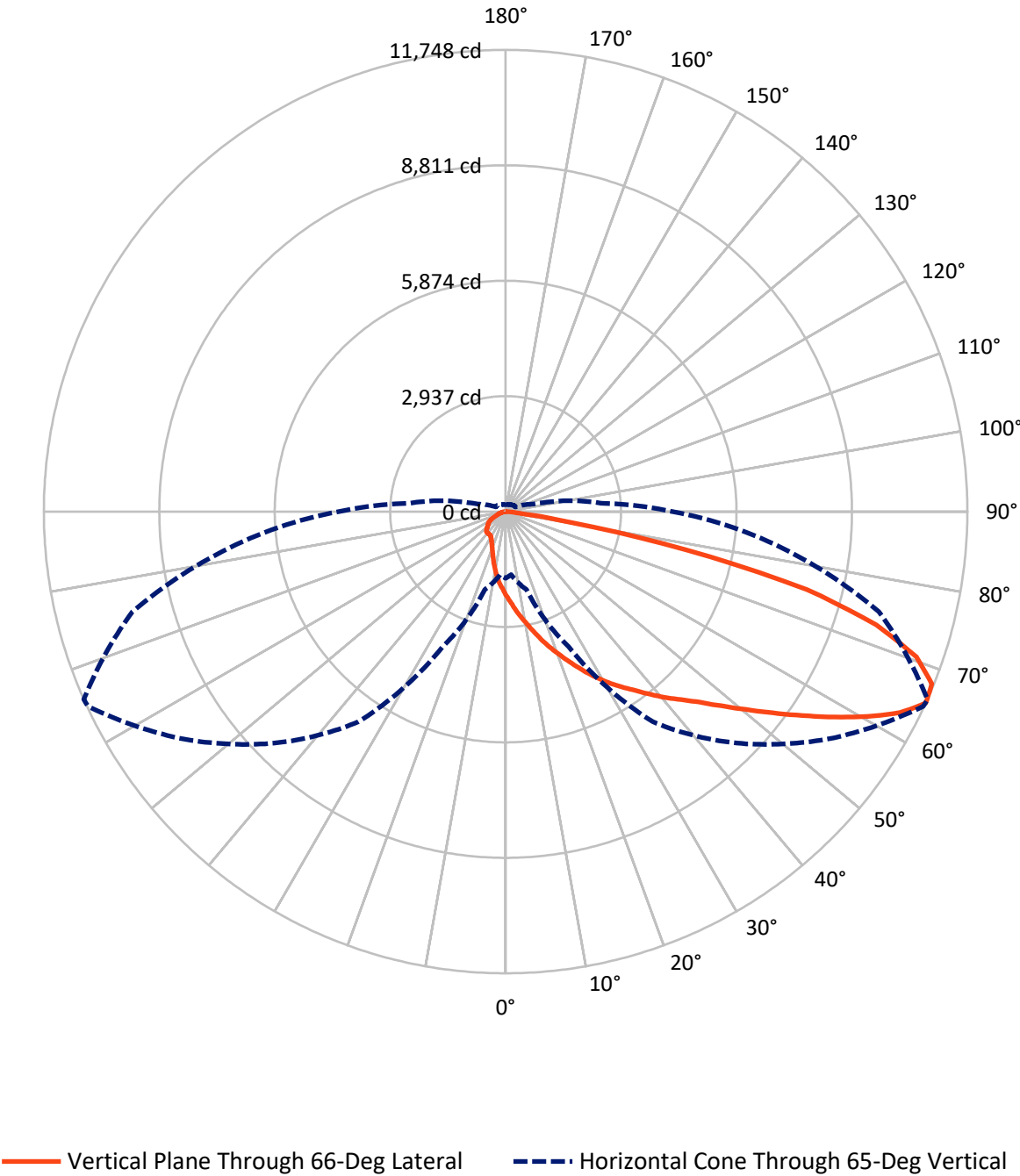


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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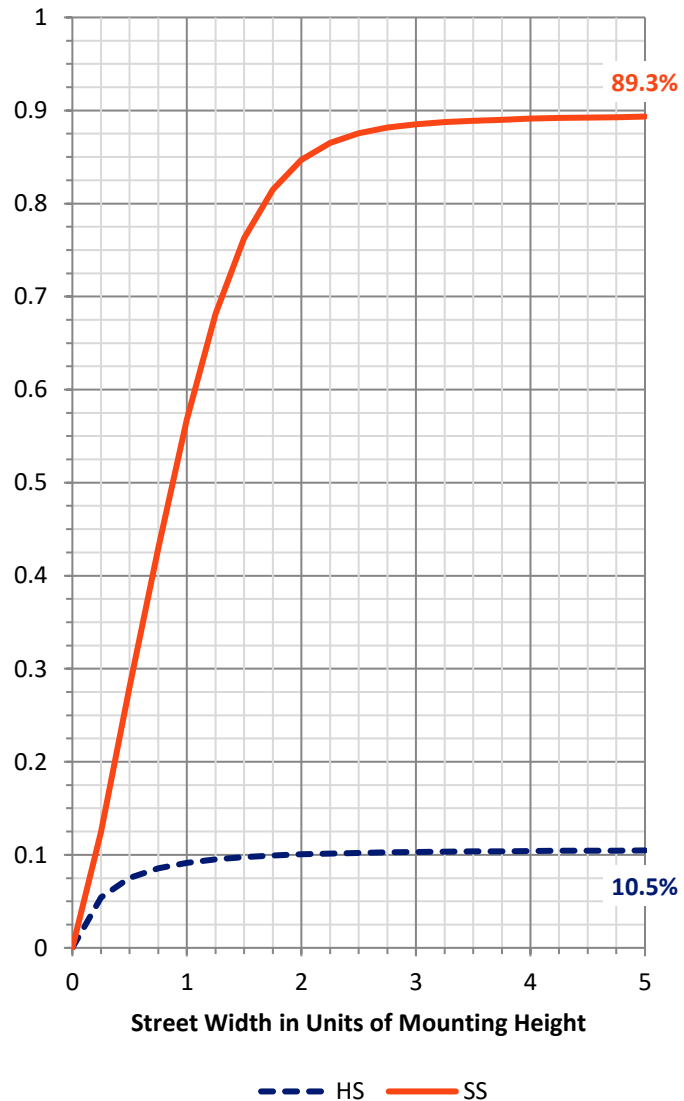
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1710.4	0.0	1710.4
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	14459.6	0.0	14459.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	16170.0	0.0	16170.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.2	1.3
10°-20°	688.4	4.3
20°-30°	1245.6	7.7
30°-40°	1947.7	12.0
40°-50°	2954.7	18.3
50°-60°	3754.1	23.2
60°-70°	3507.8	21.7
70°-80°	1743.3	10.8
80°-90°	117.1	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°	16170.0	100.0
0°-180°	16170.0	100.0

Coefficient of Utilization



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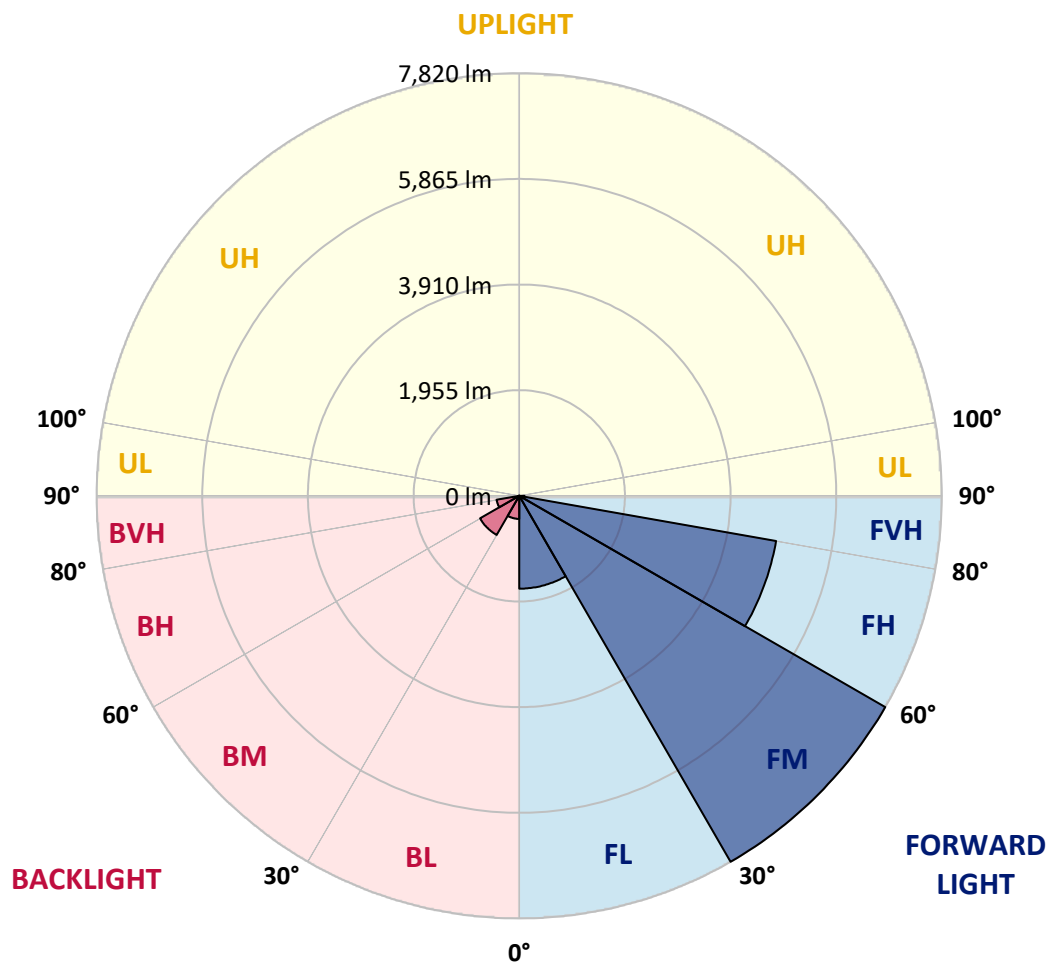
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1718.1	10.6			
FM	(30°-60°)	7820.0	48.4			
FH	(60°-80°)	4825.2	29.8			G2/5000
FVH	(80°-90°)	96.4	0.6			G1/100
BL	(0°-30°)	427.2	2.6	B1/500		
BM	(30°-60°)	836.5	5.2	B1/1000		
BH	(60°-80°)	425.9	2.6	B1/500		G1/500
BVH	(80°-90°)	20.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2140.0	2140.0	2140.0	2140.0	2140.0	2140.0	2140.0	2140.0	2140.0	2140.0	2140.0
2.5°	2499.5	2519.9	2530.0	2533.4	2455.4	2421.5	2387.6	2309.6	2292.6	2248.5	2190.9
5°	2940.4	2967.5	2960.7	2947.2	2852.2	2743.7	2655.5	2509.7	2485.9	2380.8	2251.9
7.5°	3374.5	3398.2	3391.5	3340.6	3235.5	3082.8	2937.0	2723.3	2689.4	2519.9	2313.0
10°	3737.4	3757.7	3754.3	3703.5	3578.0	3391.5	3215.1	2930.2	2889.5	2648.7	2363.8
12.5°	4035.8	4063.0	4059.6	4025.7	3913.7	3710.3	3510.2	3167.6	3116.8	2804.7	2435.1
15°	4269.8	4303.8	4303.8	4290.2	4212.2	4042.6	3815.4	3428.8	3367.7	2984.5	2523.2
17.5°	4412.3	4439.4	4463.2	4486.9	4432.6	4303.8	4096.9	3689.9	3625.5	3160.8	2614.8
20°	4486.9	4514.0	4531.0	4581.9	4592.0	4527.6	4364.8	3947.7	3879.8	3360.9	2720.0
22.5°	4609.0	4632.7	4636.1	4680.2	4700.6	4717.5	4615.8	4202.0	4147.8	3581.4	2838.7
25°	4812.5	4839.6	4829.4	4849.8	4853.2	4873.5	4863.4	4493.7	4439.4	3832.3	2981.1
27.5°	5073.6	5107.5	5100.8	5080.4	5049.9	5032.9	5077.0	4788.7	4737.9	4083.3	3126.9
30°	5355.1	5395.8	5385.6	5344.9	5263.5	5192.3	5253.4	5066.8	5019.4	4341.1	3289.7
32.5°	5640.0	5687.5	5684.1	5616.3	5477.2	5355.1	5446.7	5328.0	5294.1	4619.2	3466.1
35°	5826.5	5887.6	5880.8	5840.1	5660.3	5555.2	5667.1	5595.9	5572.2	4958.3	3720.4
37.5°	6128.4	6192.8	6135.1	6033.4	5826.5	5772.3	5907.9	5897.7	5880.8	5317.8	3988.4
40°	6860.9	6955.9	6803.3	6386.1	6047.0	5999.5	6192.8	6233.5	6216.5	5673.9	4229.1
42.5°	7627.4	7769.8	7532.4	6955.9	6447.2	6274.2	6504.8	6562.5	6542.1	5979.1	4446.2
45°	8092.0	8153.1	7915.7	7468.0	7156.0	6606.6	6837.2	6932.1	6915.2	6345.4	4724.3
47.5°	8471.9	8448.1	8176.8	7875.0	7932.6	7074.6	7213.6	7400.2	7386.6	6749.0	5029.5
50°	8553.3	8499.0	8390.5	8200.5	8353.2	7549.4	7610.4	7932.6	7919.1	7196.7	5338.2
52.5°	7980.1	7908.9	8203.9	8363.3	8312.5	7895.3	8047.9	8516.0	8509.2	7681.7	5633.2
55°	6548.9	6491.3	7284.9	8109.0	8268.4	8139.5	8532.9	9123.0	9160.3	8197.2	5901.1
57.5°	5151.6	5090.6	5870.6	7471.4	8105.6	8363.3	9099.3	9818.3	9865.8	8756.7	6155.5
60°	4107.1	4015.5	4612.4	6467.5	7800.4	8536.3	9645.3	10581.4	10588.1	9268.9	6311.5
62.5°	2791.2	2689.4	3350.8	5195.7	7288.2	8563.4	10065.9	11239.3	11266.4	9652.1	6338.6
65°	1695.7	1610.9	2058.6	3795.0	6532.0	8332.8	10072.6	11724.3	11748.0	9828.4	6175.8
67.5°	983.5	949.6	1176.8	2363.8	5277.1	7712.2	9648.7	11649.7	11693.8	9753.8	5806.2
70°	573.2	569.8	654.6	1170.1	3723.8	6481.1	8702.5	11022.2	11086.7	9363.8	5239.8
72.5°	420.5	427.3	461.2	627.4	2157.0	4666.6	7369.6	9760.6	9859.0	8600.7	4432.6
75°	332.4	335.8	366.3	427.3	1132.7	2638.6	5521.3	7834.3	7912.3	7240.8	3462.7
77.5°	247.6	254.4	278.1	301.8	525.7	1210.8	3106.6	4826.0	4697.2	3974.8	1672.0
80°	179.7	196.7	206.9	217.1	278.1	468.0	932.7	1682.2	1668.6	1736.4	790.2
82.5°	115.3	128.9	139.0	145.8	166.2	223.8	278.1	376.5	407.0	674.9	315.4
85°	50.9	57.7	64.4	78.0	71.2	78.0	115.3	74.6	64.4	101.7	57.7
87.5°	0.0	0.0	10.2	17.0	13.6	6.8	20.3	13.6	10.2	10.2	10.2
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°	2140.0	2140.0	2140.0	2140.0	2140.0	2140.0	2140.0	2140.0	2140.0	2140.0	2140.0
2.5°	2160.4	2123.1	2045.0	1970.4	1926.3	1868.7	1817.8	1770.3	1767.0	1753.4	1729.6
5°	2187.5	2116.3	1970.4	1831.4	1726.3	1614.3	1519.4	1444.8	1417.6	1397.3	1370.1
7.5°	2214.6	2102.7	1885.7	1682.2	1516.0	1360.0	1248.1	1146.3	1115.8	1088.7	1071.7
10°	2224.8	2079.0	1787.3	1516.0	1298.9	1132.7	1014.0	939.4	912.3	898.7	888.6
12.5°	2255.3	2065.4	1695.7	1360.0	1109.0	956.4	871.6	827.5	817.3	807.2	797.0
15°	2296.0	2065.4	1604.2	1207.4	959.8	837.7	786.8	756.3	749.5	746.1	739.3
17.5°	2340.1	2065.4	1516.0	1078.5	851.3	759.7	722.4	705.4	702.0	698.6	695.2
20°	2401.2	2068.8	1421.0	966.6	773.3	702.0	671.5	651.2	647.8	644.4	644.4
22.5°	2462.2	2075.6	1329.5	881.8	722.4	657.9	620.6	600.3	593.5	593.5	593.5
25°	2540.2	2095.9	1244.7	810.6	678.3	617.2	569.8	552.8	549.4	549.4	546.0
27.5°	2631.8	2119.7	1170.1	756.3	634.2	569.8	522.3	505.3	498.5	498.5	495.2
30°	2730.1	2143.4	1109.0	715.6	590.1	522.3	478.2	457.8	451.1	454.5	451.1
32.5°	2838.7	2177.3	1061.5	688.5	549.4	481.6	440.9	417.1	413.8	413.8	410.4
35°	3021.8	2272.3	1054.7	674.9	515.5	451.1	410.4	386.6	383.2	383.2	379.8
37.5°	3218.5	2380.8	1085.3	668.1	488.4	423.9	386.6	362.9	359.5	359.5	359.5
40°	3384.7	2462.2	1119.2	668.1	471.4	400.2	366.3	345.9	345.9	345.9	345.9
42.5°	3496.6	2469.0	1112.4	668.1	457.8	383.2	352.7	332.4	332.4	335.8	332.4
45°	3662.8	2502.9	1085.3	657.9	447.7	369.7	339.1	322.2	318.8	322.2	322.2
47.5°	3859.5	2563.9	1058.1	617.2	444.3	356.1	329.0	308.6	305.2	308.6	305.2
50°	4046.0	2618.2	1044.6	563.0	437.5	342.5	315.4	295.1	291.7	295.1	291.7
52.5°	4202.0	2641.9	1020.8	525.7	420.5	329.0	301.8	281.5	274.7	278.1	278.1
55°	4327.5	2635.2	986.9	495.2	390.0	315.4	284.9	267.9	257.8	257.8	254.4
57.5°	4442.8	2638.6	956.4	464.6	356.1	295.1	271.3	251.0	237.4	234.0	230.6
60°	4486.9	2621.6	902.1	423.9	322.2	278.1	254.4	230.6	217.1	213.7	210.3
62.5°	4425.9	2560.6	830.9	352.7	291.7	257.8	237.4	213.7	200.1	196.7	193.3
65°	4252.9	2445.2	722.4	278.1	264.5	234.0	217.1	200.1	183.1	176.4	173.0
67.5°	3957.8	2279.1	586.7	223.8	234.0	213.7	203.5	183.1	162.8	156.0	152.6
70°	3537.3	2058.6	440.9	189.9	206.9	189.9	183.1	162.8	145.8	139.0	135.7
72.5°	2947.2	1702.5	308.6	162.8	179.7	166.2	159.4	145.8	128.9	118.7	118.7
75°	2228.2	1220.9	203.5	139.0	149.2	142.4	132.3	122.1	111.9	105.1	101.7
77.5°	959.8	474.8	125.5	105.1	122.1	118.7	105.1	98.4	95.0	88.2	88.2
80°	413.8	193.3	78.0	78.0	88.2	84.8	81.4	74.6	74.6	71.2	67.8
82.5°	152.6	78.0	47.5	57.7	64.4	57.7	57.7	57.7	57.7	54.3	54.3
85°	37.3	23.7	23.7	33.9	37.3	33.9	37.3	33.9	33.9	33.9	30.5
87.5°	10.2	10.2	13.6	13.6	13.6	13.6	13.6	10.2	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)