

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: P841310

Luminaire Tested: **ARCH4-160-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-160-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

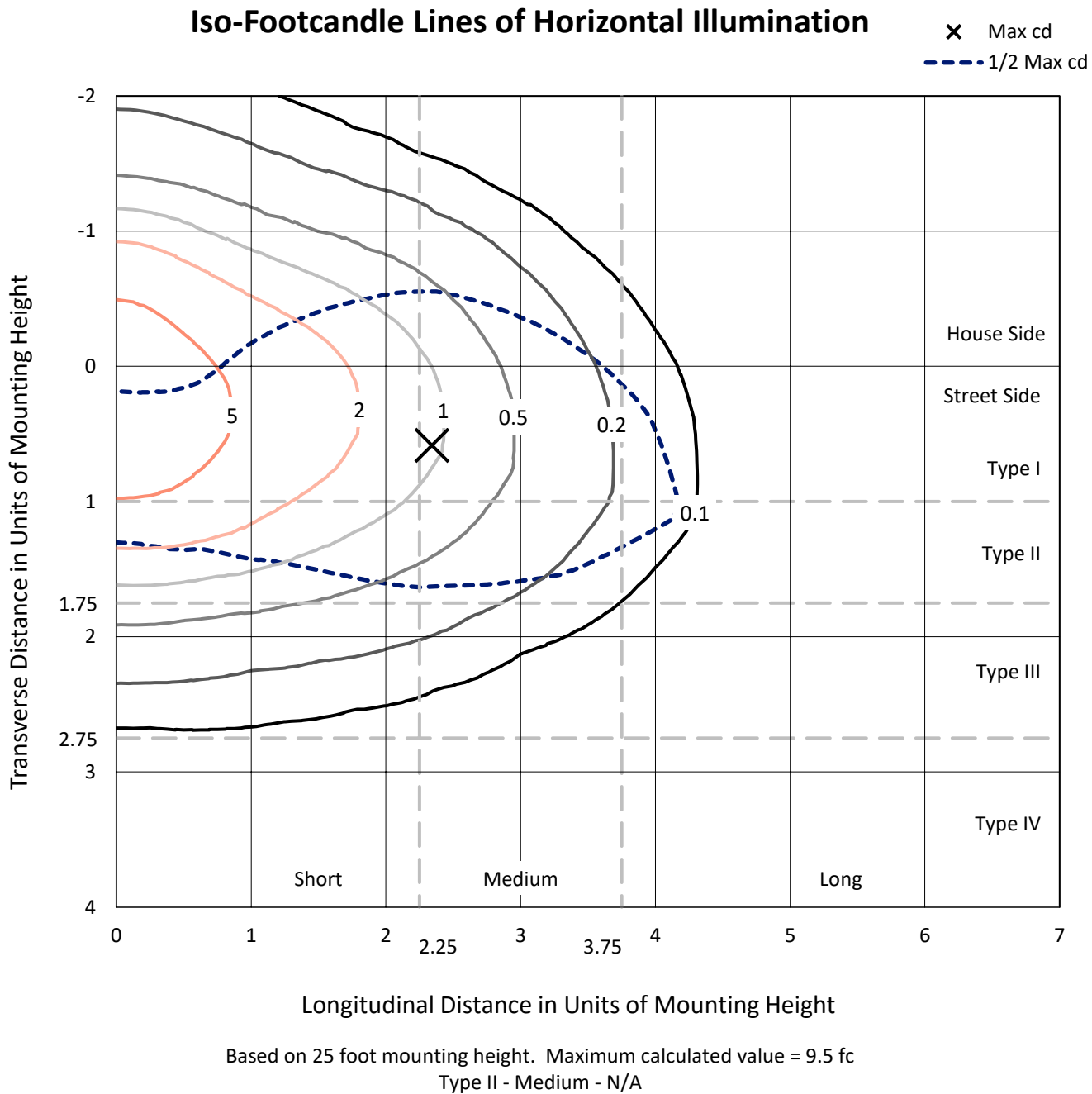
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26109 lumens
Efficiency: N/A
Efficacy: 162.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.7
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

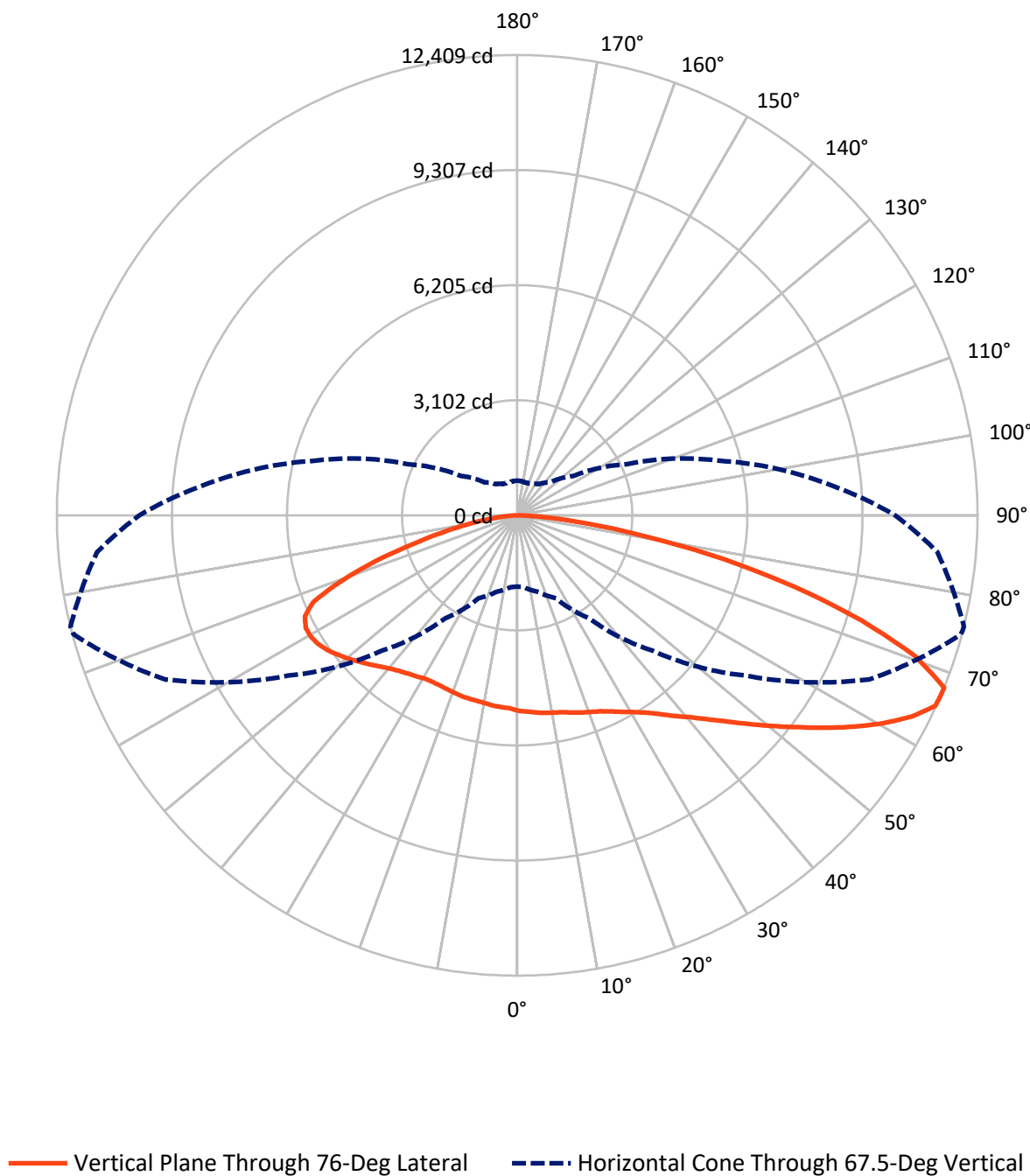


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Luminous Intensity Polar Plot



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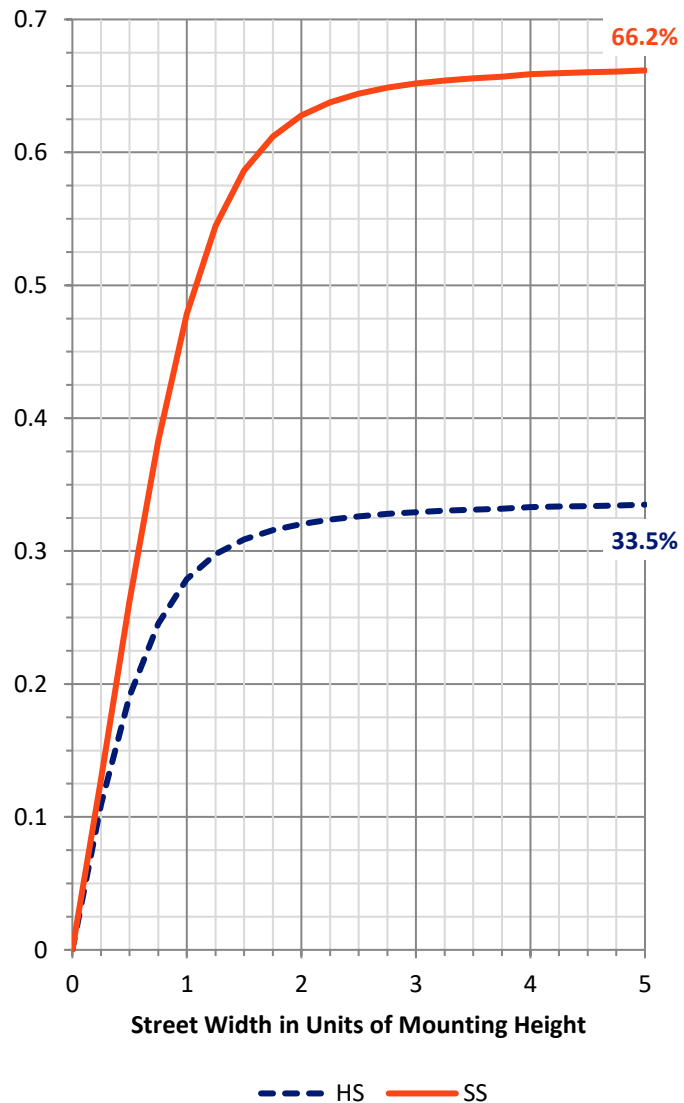
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8822.4	0.0	8822.4
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	17286.6	0.0	17286.6
	% Fixture	66.2	0.0	66.2
Total	Lumens	26109.0	0.0	26109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.5	1.9
10°-20°	1554.7	6.0
20°-30°	2641.6	10.1
30°-40°	3758.6	14.4
40°-50°	4746.9	18.2
50°-60°	5139.5	19.7
60°-70°	4780.3	18.3
70°-80°	2567.4	9.8
80°-90°	411.4	1.6
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°	26109.0	100.0
0°-180°	26109.0	100.0

Coefficient of Utilization



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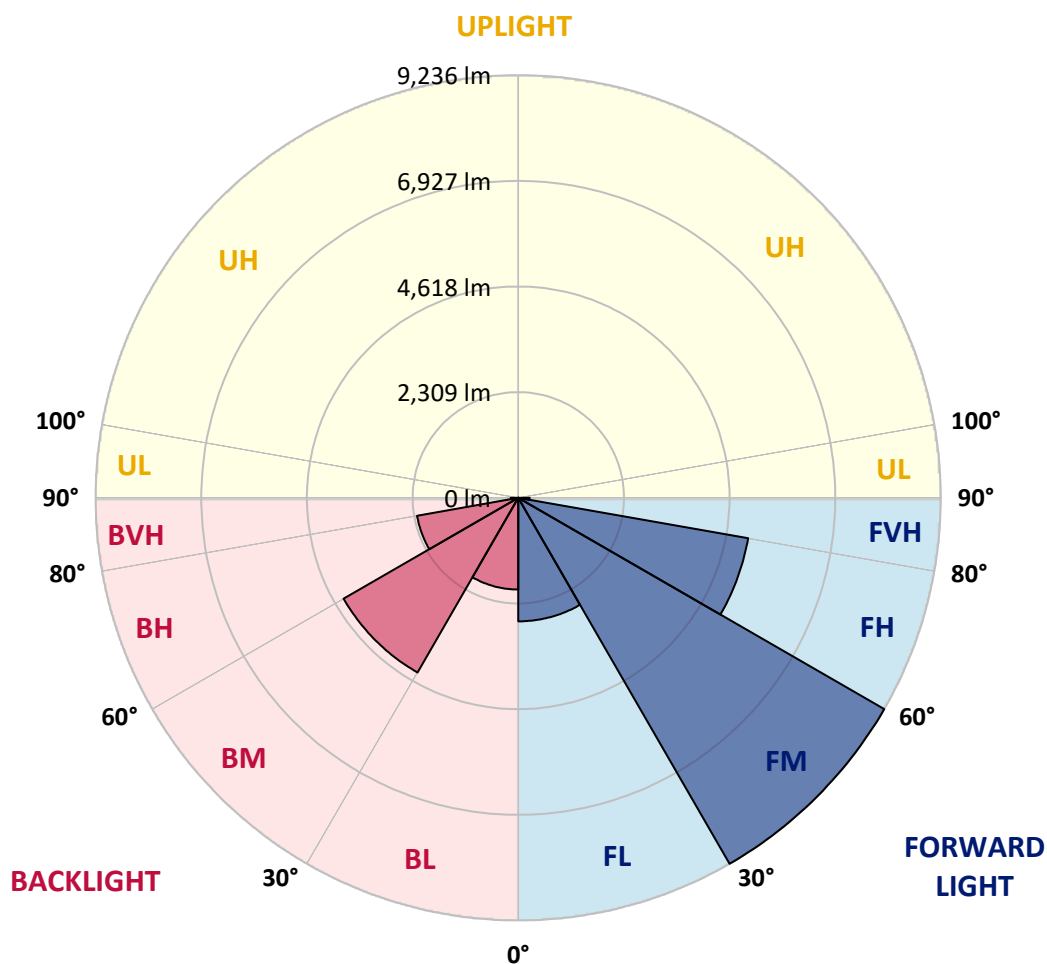
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2700.0	10.3			
FM	(30°-60°)	9236.4	35.4			
FH	(60°-80°)	5101.5	19.5			G3/7500
FVH	(80°-90°)	248.9	1.0			G3/500
BL	(0°-30°)	2004.9	7.7	B3/2500		
BM	(30°-60°)	4408.7	16.9	B3/5000		
BH	(60°-80°)	2246.3	8.6	B3/2500		G3/2500
BVH	(80°-90°)	162.5	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5274.0	5274.0	5274.0	5274.0	5274.0	5274.0	5274.0	5274.0	5274.0	5274.0	5274.0
2.5°	5433.9	5424.2	5385.5	5390.3	5390.3	5385.5	5327.3	5303.0	5303.0	5298.2	5244.9
5°	5627.8	5613.3	5569.7	5560.0	5540.6	5516.3	5424.2	5370.9	5346.7	5341.8	5269.1
7.5°	5855.6	5836.3	5782.9	5753.9	5705.4	5642.4	5526.0	5443.6	5385.5	5380.6	5278.8
10°	6083.5	6064.1	6001.1	5947.7	5879.9	5778.1	5627.8	5506.6	5414.5	5404.8	5283.7
12.5°	6354.9	6335.5	6258.0	6190.1	6088.3	5952.6	5753.9	5589.0	5463.0	5448.5	5298.2
15°	6640.9	6611.8	6534.3	6456.7	6330.7	6156.2	5918.7	5700.5	5540.6	5516.3	5341.8
17.5°	6878.4	6839.7	6776.7	6699.1	6558.5	6354.9	6083.5	5812.0	5613.3	5593.9	5385.5
20°	7082.0	7053.0	6985.1	6912.4	6762.1	6539.1	6238.6	5923.5	5681.1	5656.9	5419.4
22.5°	7275.9	7237.2	7198.4	7145.1	6980.2	6733.0	6417.9	6059.2	5768.4	5739.3	5463.0
25°	7498.9	7455.3	7440.7	7411.7	7217.8	6965.7	6636.1	6228.9	5889.6	5855.6	5540.6
27.5°	7775.2	7726.7	7697.7	7697.7	7465.0	7203.2	6868.8	6427.6	6030.2	6001.1	5637.5
30°	8066.1	8007.9	7964.3	7964.3	7702.5	7440.7	7096.6	6626.4	6190.1	6156.2	5763.5
32.5°	8323.0	8264.8	8216.3	8211.5	7940.0	7678.3	7334.1	6844.5	6384.0	6340.4	5918.7
35°	8521.7	8468.4	8424.8	8434.5	8177.5	7920.6	7600.7	7135.4	6626.4	6577.9	6122.3
37.5°	8642.9	8623.5	8599.3	8633.2	8395.7	8153.3	7877.0	7416.5	6902.7	6859.1	6374.3
40°	8705.9	8691.4	8788.3	8831.9	8579.9	8361.7	8153.3	7707.4	7203.2	7154.7	6665.2
42.5°	8798.0	8919.2	8958.0	8948.3	8715.6	8521.7	8405.4	8022.4	7557.1	7513.5	7014.2
45°	8468.4	8439.3	8652.6	8768.9	8725.3	8623.5	8642.9	8400.5	7969.1	7925.5	7416.5
47.5°	8027.3	7988.5	8109.7	8395.7	8565.3	8662.3	8856.2	8793.2	8444.2	8405.4	7886.7
50°	7096.6	7149.9	7600.7	7983.7	8318.1	8652.6	9035.5	9214.9	8967.7	8928.9	8390.8
52.5°	6064.1	6117.4	6587.6	7469.8	8017.6	8579.9	9166.4	9636.6	9534.8	9491.2	8928.9
55°	5312.7	5429.1	5962.3	6602.1	7591.0	8352.1	9244.0	10068.0	10145.6	10106.8	9515.4
57.5°	4566.2	4653.5	5055.8	5623.0	7009.3	7954.6	9239.1	10470.4	10785.4	10746.7	10111.7
60°	3688.9	3800.4	4120.3	4731.1	6233.7	7479.5	9103.4	10785.4	11401.1	11372.0	10688.5
62.5°	3087.8	3121.7	3349.5	3877.9	5235.2	6878.4	8798.0	10955.1	11958.5	11939.1	11207.2
65°	2486.7	2491.6	2700.0	3141.1	4270.6	6131.9	8279.3	10892.1	12380.2	12389.9	11580.4
67.5°	1919.6	1943.8	2132.9	2467.3	3393.2	5162.5	7537.7	10465.5	12385.1	12409.3	11367.1
70°	1328.2	1347.6	1633.6	1958.3	2622.4	4115.4	6534.3	9336.1	11367.1	11386.5	10189.2
72.5°	935.5	945.2	1250.6	1565.7	2050.4	3102.3	4929.8	7721.9	9689.9	9704.5	8570.2
75°	698.0	707.7	882.2	1187.6	1570.6	2147.4	3368.9	5913.8	7741.3	7741.3	6767.0
77.5°	494.4	499.3	572.0	819.2	1047.0	1449.4	2026.2	3873.1	5681.1	5690.8	4929.8
80°	334.5	339.3	373.2	552.6	654.4	785.3	1100.4	2031.1	3582.2	3596.8	3131.4
82.5°	174.5	184.2	208.4	281.1	329.6	436.3	567.1	1032.5	1982.6	2021.4	1880.8
85°	67.9	67.9	77.6	92.1	121.2	169.7	261.8	392.6	896.8	925.9	828.9
87.5°	24.2	24.2	29.1	29.1	33.9	38.8	43.6	58.2	101.8	101.8	96.9
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°	5274.0	5274.0	5274.0	5274.0	5274.0	5274.0	5274.0	5274.0	5274.0	5274.0	5274.0
2.5°	5225.5	5225.5	5201.2	5210.9	5206.1	5196.4	5186.7	5201.2	5186.7	5152.8	5147.9
5°	5235.2	5225.5	5186.7	5181.9	5167.3	5147.9	5123.7	5133.4	5109.1	5080.1	5075.2
7.5°	5240.0	5220.6	5167.3	5147.9	5118.8	5080.1	5041.3	5041.3	5007.4	4978.3	4973.4
10°	5230.3	5206.1	5133.4	5094.6	5041.3	4983.1	4929.8	4915.3	4876.5	4842.5	4842.5
12.5°	5235.2	5201.2	5109.1	5046.1	4973.4	4900.7	4832.8	4813.5	4779.5	4745.6	4740.7
15°	5264.3	5215.8	5099.5	5017.0	4910.4	4828.0	4755.3	4740.7	4711.7	4687.4	4687.4
17.5°	5293.3	5230.3	5084.9	4968.6	4837.7	4745.6	4677.7	4677.7	4658.3	4643.8	4643.8
20°	5307.9	5235.2	5055.8	4900.7	4750.4	4653.5	4590.5	4600.2	4595.3	4590.5	4590.5
22.5°	5341.8	5244.9	5031.6	4837.7	4658.3	4556.5	4498.4	4512.9	4508.1	4508.1	4512.9
25°	5395.1	5269.1	5012.2	4779.5	4571.1	4459.6	4396.6	4406.3	4406.3	4406.3	4406.3
27.5°	5467.9	5317.6	5007.4	4726.2	4483.8	4357.8	4280.2	4280.2	4260.9	4265.7	4270.6
30°	5579.3	5409.7	5017.0	4677.7	4391.7	4231.8	4139.7	4125.1	4120.3	4130.0	4134.8
32.5°	5715.1	5535.7	5075.2	4643.8	4294.8	4091.2	3974.9	3970.0	3955.5	3955.5	3955.5
35°	5884.7	5656.9	5128.5	4639.0	4197.8	3940.9	3814.9	3800.4	3766.4	3751.9	3751.9
37.5°	6102.9	5846.0	5191.6	4605.0	4115.4	3795.5	3645.2	3596.8	3558.0	3553.1	3553.1
40°	6369.5	6059.2	5283.7	4566.2	4028.2	3645.2	3446.5	3364.1	3368.9	3388.3	3388.3
42.5°	6684.6	6321.0	5400.0	4546.9	3902.1	3490.1	3213.8	3116.9	3150.8	3170.2	3175.0
45°	7053.0	6631.2	5530.9	4522.6	3785.8	3315.6	2966.6	2845.4	2860.0	2864.8	2869.7
47.5°	7479.5	6975.4	5666.6	4503.2	3654.9	3097.5	2695.1	2535.2	2530.3	2501.3	2510.9
50°	7925.5	7338.9	5807.2	4469.3	3495.0	2840.6	2409.2	2220.1	2181.3	2137.7	2142.5
52.5°	8400.5	7712.2	5938.1	4416.0	3296.2	2578.8	2137.7	1934.1	1856.6	1808.1	1817.8
55°	8924.0	8095.1	6064.1	4333.6	3087.8	2317.1	1895.3	1686.9	1589.9	1551.2	1556.0
57.5°	9403.9	8463.5	6156.2	4231.8	2860.0	2079.5	1682.0	1478.5	1415.4	1410.6	1415.4
60°	9869.3	8773.8	6195.0	4091.2	2627.3	1861.4	1483.3	1328.2	1284.6	1308.8	1313.6
62.5°	10261.9	8972.5	6175.6	3902.1	2389.8	1653.0	1323.3	1211.8	1182.8	1231.2	1236.1
65°	10489.8	9035.5	6039.8	3630.7	2132.9	1449.4	1173.1	1051.9	1037.3	1066.4	1081.0
67.5°	10189.2	8642.9	5671.4	3257.4	1846.9	1260.3	1027.6	930.7	906.5	930.7	930.7
70°	9030.7	7489.2	4798.9	2666.1	1531.8	1076.1	891.9	824.1	804.7	824.1	819.2
72.5°	7523.1	6228.9	3781.0	2079.5	1207.0	906.5	775.6	712.6	693.2	673.8	664.1
75°	5836.3	4731.1	2743.6	1526.9	911.3	727.1	649.6	591.4	542.9	562.3	552.6
77.5°	4275.4	3320.5	1943.8	1056.7	654.4	562.3	509.0	465.3	431.4	470.2	465.3
80°	2753.3	2147.4	1299.1	707.7	450.8	392.6	373.2	349.0	382.9	499.3	509.0
82.5°	1682.0	1362.1	775.6	460.5	295.7	261.8	242.4	242.4	392.6	431.4	436.3
85°	751.3	722.3	421.7	237.5	164.8	150.3	135.7	174.5	160.0	116.3	121.2
87.5°	121.2	126.0	92.1	82.4	63.0	63.0	48.5	33.9	24.2	14.5	14.5
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)