

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: P841960

Luminaire Tested: **ARCH4-250-730-U-T3**

Issue Date: 5/27/2024

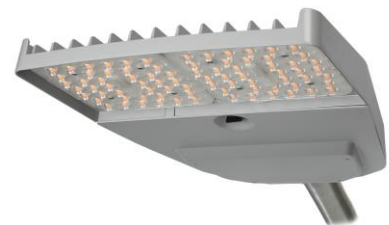
Test Information

Test Method: LM-79-08
Report Number: P841960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-250-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36845 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.5
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



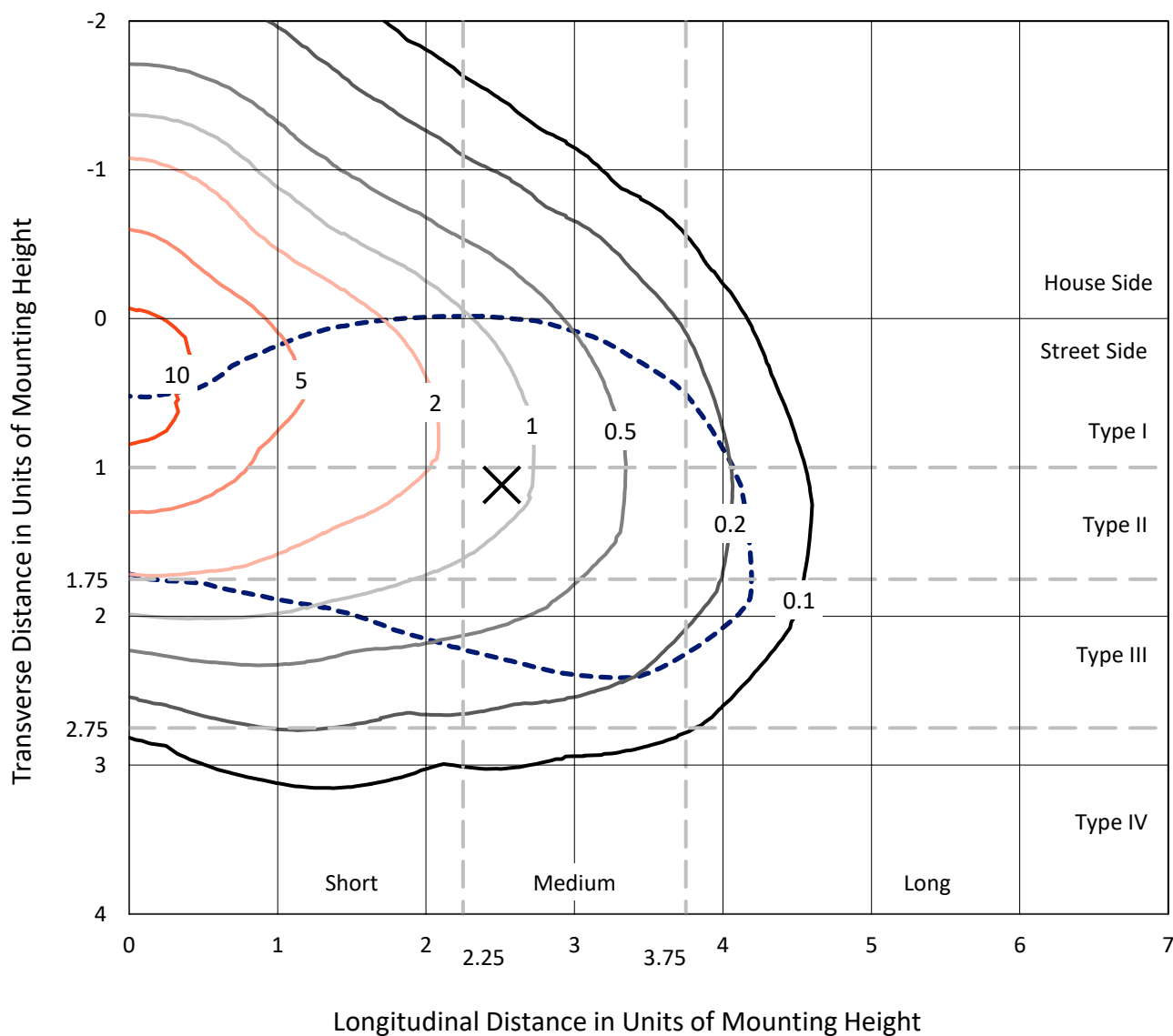
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

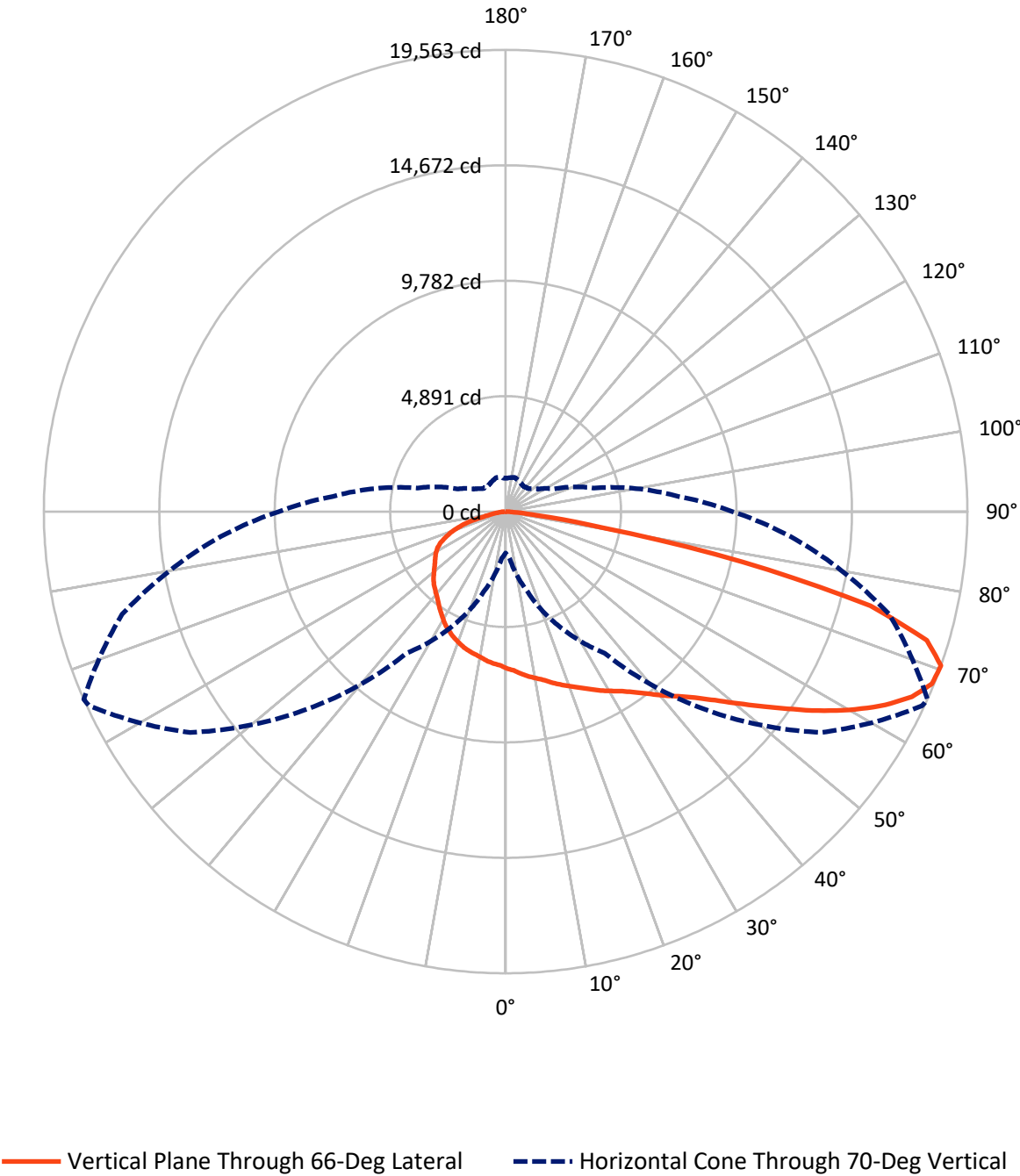
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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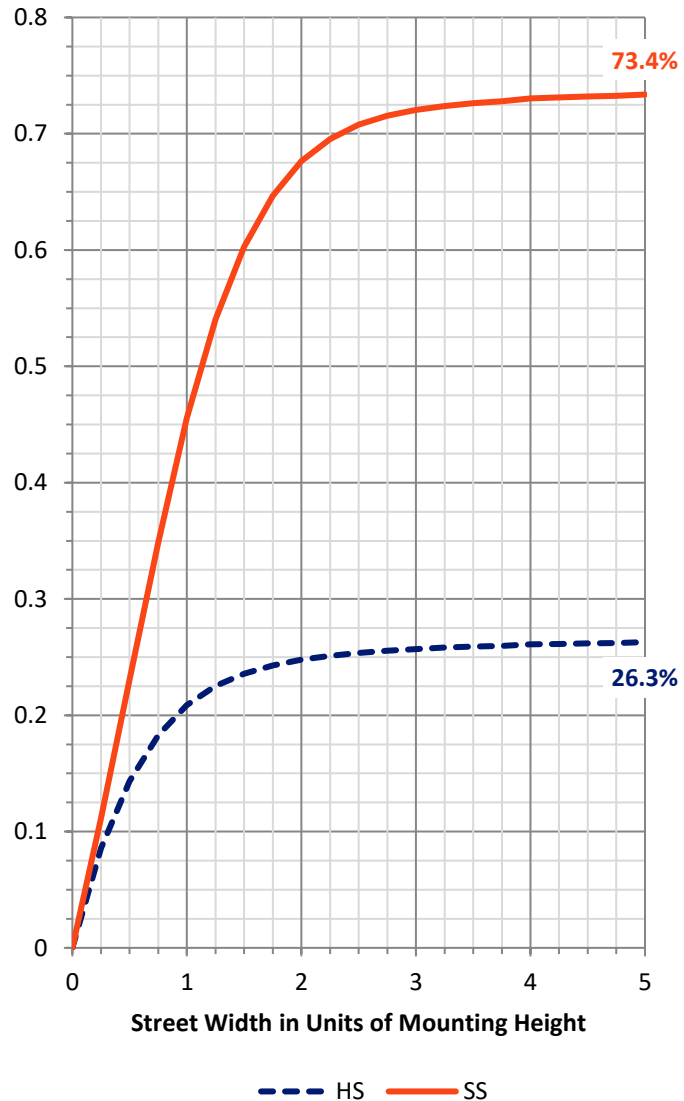
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9763.1	0.0	9763.1
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	27081.9	0.0	27081.9
	% Fixture	73.5	0.0	73.5
Total	Lumens	36845.0	0.0	36845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	639.0	1.7
10°-20°	1916.7	5.2
20°-30°	3213.0	8.7
30°-40°	4810.9	13.1
40°-50°	6432.1	17.5
50°-60°	7509.7	20.4
60°-70°	7467.3	20.3
70°-80°	4420.7	12.0
80°-90°	435.7	1.2
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°	36845.0	100.0
0°-180°	36845.0	100.0

Coefficient of Utilization



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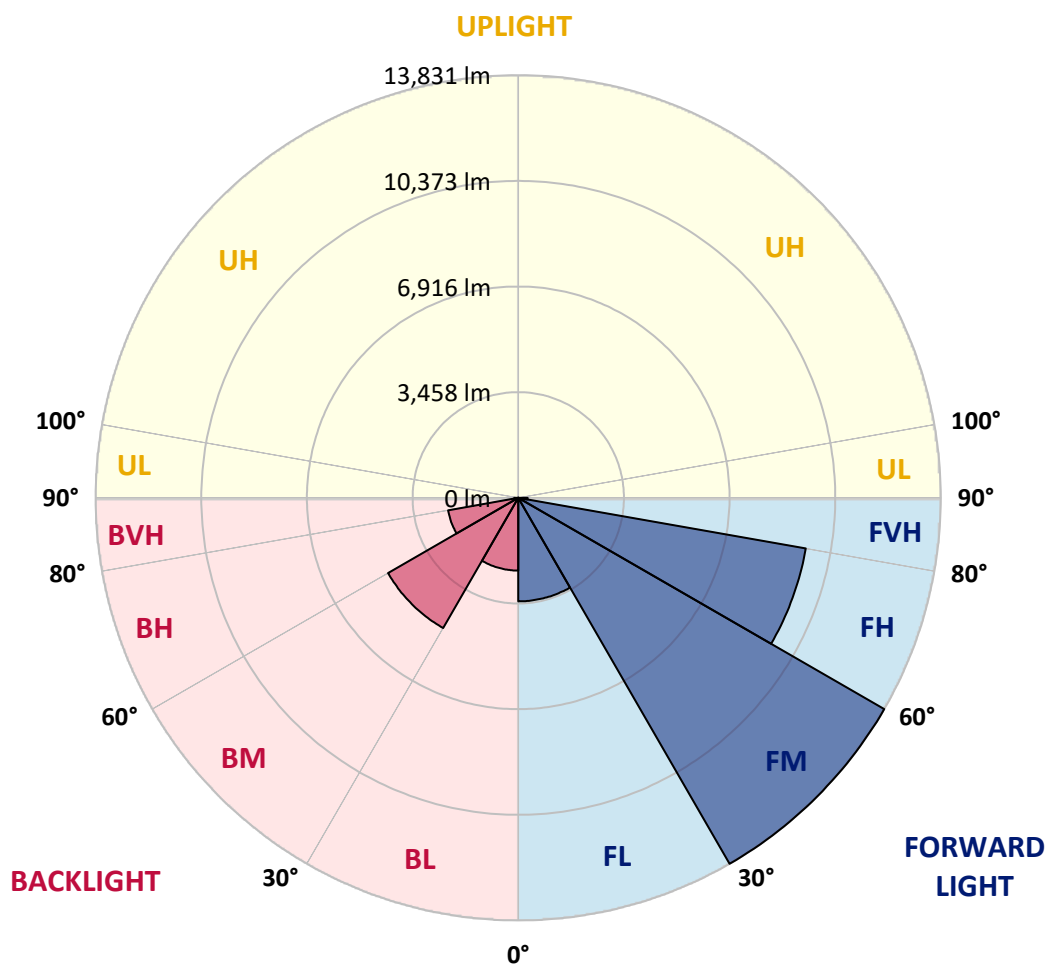
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3388.8	9.2			
FM	(30°-60°)	13831.1	37.5			
FH	(60°-80°)	9555.8	25.9			G4/12000
FVH	(80°-90°)	306.2	0.8			G3/500
BL	(0°-30°)	2379.8	6.5	B3/2500		
BM	(30°-60°)	4921.6	13.4	B3/5000		
BH	(60°-80°)	2332.2	6.3	B3/2500		G3/2500
BVH	(80°-90°)	129.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6649.7	6649.7	6649.7	6649.7	6649.7	6649.7	6649.7	6649.7	6649.7	6649.7	6649.7
2.5°	6894.2	6883.3	6877.9	6856.1	6807.2	6829.0	6780.1	6747.5	6742.0	6666.0	6622.5
5°	7176.7	7171.2	7160.4	7127.8	7051.7	7062.6	6981.1	6921.3	6905.0	6785.5	6693.1
7.5°	7415.7	7404.8	7399.4	7355.9	7274.4	7269.0	7171.2	7084.3	7057.1	6894.2	6752.9
10°	7600.4	7584.1	7595.0	7551.5	7464.6	7448.3	7323.3	7209.3	7182.1	6975.6	6780.1
12.5°	7758.0	7747.1	7763.4	7725.4	7654.7	7638.4	7513.5	7366.8	7334.2	7095.2	6839.8
15°	7931.8	7893.8	7926.4	7910.1	7861.2	7855.8	7741.7	7578.7	7535.2	7247.3	6932.2
17.5°	8024.2	8002.4	8040.5	8045.9	8024.2	8062.2	7953.5	7758.0	7719.9	7388.5	7013.7
20°	8089.4	8056.8	8100.2	8132.8	8149.1	8225.2	8138.3	7948.1	7904.6	7524.4	7089.7
22.5°	8312.1	8241.5	8246.9	8268.6	8279.5	8388.2	8333.8	8149.1	8105.7	7692.8	7182.1
25°	8871.7	8730.4	8638.1	8572.9	8496.8	8589.2	8556.6	8377.3	8339.3	7893.8	7296.2
27.5°	9740.9	9561.6	9376.9	9186.8	8888.0	8849.9	8795.6	8632.6	8589.2	8094.8	7410.3
30°	10729.7	10550.4	10333.1	10028.9	9469.3	9175.9	9051.0	8871.7	8822.8	8274.1	7518.9
32.5°	11713.0	11555.5	11338.1	10968.7	10170.1	9572.5	9306.3	9121.6	9072.7	8469.7	7649.3
35°	12479.0	12381.2	12240.0	11778.2	10865.5	10039.7	9675.7	9453.0	9398.7	8779.3	7888.3
37.5°	13098.4	13027.7	12908.2	12424.7	11370.7	10506.9	10099.5	9844.1	9784.4	9116.2	8143.7
40°	14011.1	13826.3	13728.6	13027.7	11810.8	10930.7	10577.6	10311.4	10246.2	9474.7	8350.1
42.5°	14787.9	14652.1	14532.6	13565.6	12229.1	11294.7	11028.5	10784.0	10697.1	9827.8	8572.9
45°	14918.3	14972.7	14912.9	13831.8	12891.9	11653.2	11484.8	11327.3	11245.8	10305.9	8909.7
47.5°	14923.8	14923.8	14570.6	13983.9	13712.3	12055.3	11973.8	12028.1	11941.2	10914.4	9311.7
50°	14532.6	14603.2	14418.5	14021.9	13929.6	12457.3	12571.4	12864.7	12777.8	11560.9	9746.3
52.5°	13723.1	13956.7	13951.3	13962.2	13614.5	12799.6	13201.6	13869.8	13723.1	12288.9	10208.1
55°	12294.3	12761.5	13179.8	13538.4	13342.8	13006.0	13973.0	14940.1	14787.9	13103.8	10675.3
57.5°	11071.9	11370.7	11892.3	12908.2	13022.3	13185.3	14695.6	16059.2	15923.4	14005.6	11164.3
60°	9675.7	10088.6	10610.2	12055.3	12631.1	13418.9	15488.8	17151.2	17020.8	14918.3	11636.9
62.5°	7529.8	8062.2	9105.3	10746.0	12060.7	13565.6	16113.5	18112.8	18053.0	15782.1	12060.7
65°	5248.0	5720.7	7182.1	9137.9	11153.4	13500.4	16613.3	18971.2	18916.8	16488.4	12359.5
67.5°	3064.1	3612.8	5264.3	7355.9	9550.8	13049.5	16776.3	19476.4	19476.4	16917.6	12441.0
70°	1749.3	2004.7	3471.5	5362.1	7323.3	11805.4	16320.0	19471.0	19563.3	16819.8	12104.2
72.5°	1222.4	1336.5	2336.1	3607.3	4965.5	9550.8	15124.8	18531.1	18656.1	15896.2	10952.4
75°	950.7	1032.2	1646.1	2461.0	3129.3	6486.7	12511.6	15624.6	15956.0	13549.3	8855.4
77.5°	722.6	782.3	961.6	1537.5	2004.7	3726.9	8257.8	10246.2	10267.9	8295.8	4748.2
80°	527.0	586.7	641.1	939.9	1064.8	1743.9	3118.4	4281.0	4161.5	4014.8	2569.7
82.5°	315.1	374.9	391.2	510.7	521.5	744.3	1092.0	1379.9	1325.6	1765.6	1206.1
85°	135.8	190.1	201.0	233.6	222.7	304.2	434.6	364.0	326.0	374.9	260.8
87.5°	32.6	54.3	54.3	59.8	48.9	76.1	81.5	59.8	54.3	65.2	65.2
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°	6649.7	6649.7	6649.7	6649.7	6649.7	6649.7	6649.7	6649.7	6649.7	6649.7	6649.7
2.5°	6611.7	6595.4	6600.8	6508.4	6481.3	6454.1	6437.8	6426.9	6416.1	6432.4	6448.7
5°	6660.5	6622.5	6579.1	6443.2	6388.9	6329.2	6285.7	6247.7	6231.4	6231.4	6247.7
7.5°	6698.6	6633.4	6541.0	6361.7	6264.0	6182.5	6111.8	6062.9	6035.8	6035.8	6052.1
10°	6704.0	6611.7	6465.0	6247.7	6117.3	5997.8	5916.3	5861.9	5823.9	5823.9	5834.8
12.5°	6736.6	6611.7	6421.5	6160.7	5997.8	5851.1	5753.3	5671.8	5655.5	5655.5	5666.4
15°	6790.9	6638.8	6394.3	6084.7	5889.1	5720.7	5612.0	5525.1	5492.5	5514.2	5519.7
17.5°	6839.8	6655.1	6345.4	5986.9	5753.3	5568.6	5449.0	5373.0	5329.5	5378.4	5378.4
20°	6872.4	6655.1	6274.8	5861.9	5606.6	5400.2	5286.1	5193.7	5161.1	5220.9	5226.3
22.5°	6921.3	6649.7	6198.8	5737.0	5449.0	5231.7	5117.6	5047.0	5030.7	5095.9	5117.6
25°	6975.6	6660.5	6117.3	5595.7	5275.2	5063.3	4976.4	4943.8	4954.7	5036.2	5063.3
27.5°	7035.4	6682.3	6035.8	5438.2	5085.1	4894.9	4846.0	4862.3	4905.8	5009.0	5041.6
30°	7089.7	6687.7	5921.7	5253.5	4867.7	4688.5	4710.2	4780.8	4846.0	4949.2	4987.3
32.5°	7160.4	6693.1	5802.2	5052.5	4634.1	4503.7	4601.5	4715.6	4780.8	4878.6	4922.1
35°	7334.2	6785.5	5709.8	4856.9	4416.8	4346.2	4509.2	4655.9	4693.9	4780.8	4818.8
37.5°	7535.2	6937.6	5660.9	4655.9	4204.9	4188.6	4395.1	4541.8	4552.6	4607.0	4645.0
40°	7660.2	7002.8	5606.6	4487.4	4014.8	4025.7	4237.5	4351.6	4329.9	4367.9	4395.1
42.5°	7785.1	7024.5	5492.5	4346.2	3835.5	3846.4	4009.4	4090.9	4101.7	4183.2	4221.2
45°	7997.0	7084.3	5367.6	4215.8	3672.5	3634.5	3732.3	3841.0	3982.2	4139.8	4183.2
47.5°	8279.5	7209.3	5237.2	4058.3	3515.0	3390.0	3428.1	3618.2	3764.9	3911.6	3938.7
50°	8567.4	7334.2	5117.6	3868.1	3357.4	3129.3	3145.6	3319.4	3438.9	3553.0	3569.3
52.5°	8849.9	7442.9	5014.4	3688.8	3178.2	2819.6	2884.8	3064.1	3145.6	3199.9	3216.2
55°	9132.4	7535.2	4922.1	3536.7	2971.7	2575.1	2634.9	2803.3	2884.8	2912.0	2922.8
57.5°	9425.8	7643.9	4851.4	3406.3	2738.1	2357.8	2395.8	2515.4	2591.4	2624.0	2613.2
60°	9670.3	7736.2	4813.4	3270.5	2504.5	2156.8	2145.9	2254.6	2363.2	2395.8	2385.0
62.5°	9860.4	7796.0	4753.7	3096.7	2298.1	1955.8	1901.5	2042.7	2156.8	2178.5	2194.8
65°	9963.7	7801.4	4607.0	2873.9	2086.2	1738.5	1700.5	1841.7	1912.3	1934.1	1934.1
67.5°	9947.4	7714.5	4319.0	2575.1	1890.6	1542.9	1510.3	1597.2	1700.5	1716.7	1700.5
70°	9610.5	7355.9	3857.3	2260.0	1657.0	1369.1	1309.3	1396.2	1494.0	1434.2	1407.1
72.5°	8654.4	6426.9	3178.2	1912.3	1396.2	1151.7	1124.6	1211.5	1216.9	1227.8	1200.6
75°	6829.0	4786.3	2379.5	1488.6	1130.0	967.0	961.6	945.3	967.0	1010.5	977.9
77.5°	3585.6	2390.4	1287.6	912.7	820.3	776.9	738.9	733.4	798.6	825.8	793.2
80°	1944.9	1341.9	738.9	548.7	499.8	505.2	554.1	543.3	613.9	630.2	603.0
82.5°	847.5	635.6	364.0	331.4	331.4	326.0	342.3	380.3	456.4	456.4	364.0
85°	184.7	157.5	141.3	163.0	184.7	184.7	184.7	184.7	130.4	70.6	48.9
87.5°	59.8	59.8	59.8	65.2	70.6	70.6	59.8	43.5	27.2	5.4	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)