

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: P841600

Luminaire Tested: **ARCH4-200-730-U-T3**

Issue Date: 5/27/2024

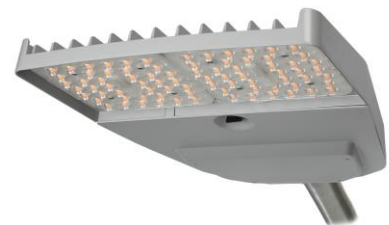
Test Information

Test Method: LM-79-08
Report Number: P841600
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: ARCH4-200-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31324 lumens
Efficiency: N/A
Efficacy: 153.8 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): 203.7
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



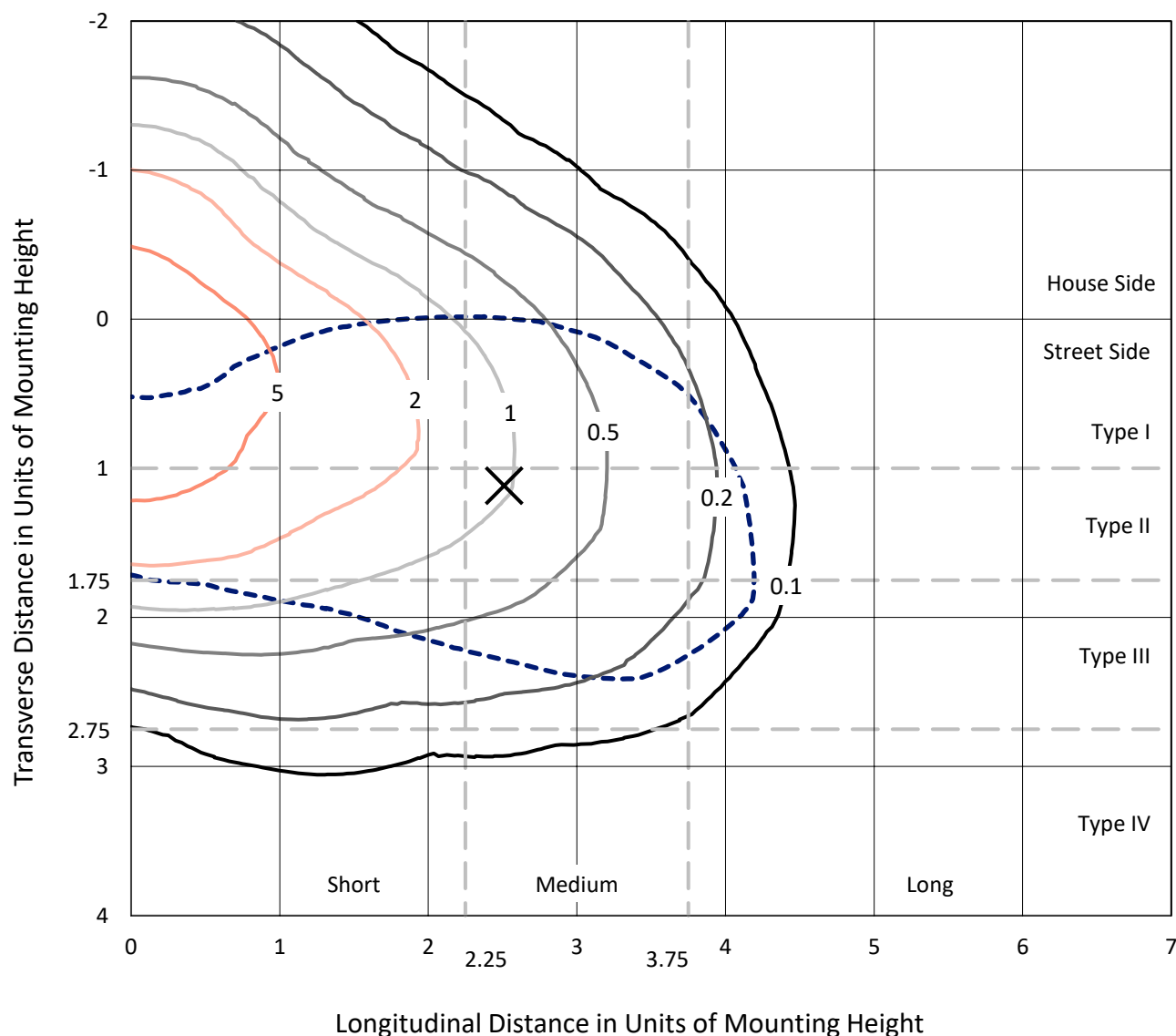
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

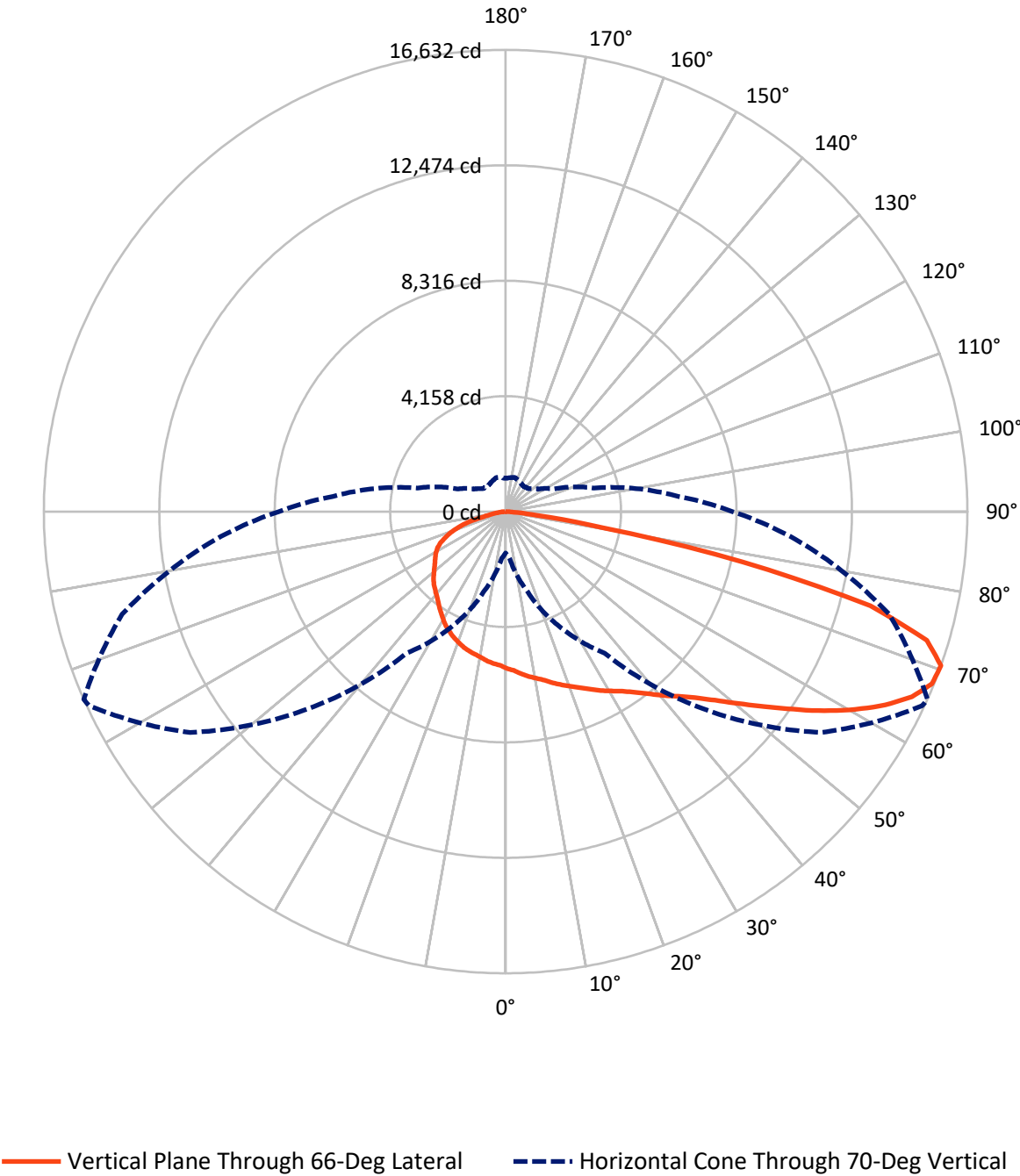


Based on 25 foot mounting height. Maximum calculated value = 9.8 fc

Type III - Medium - N/A

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Luminous Intensity Polar Plot



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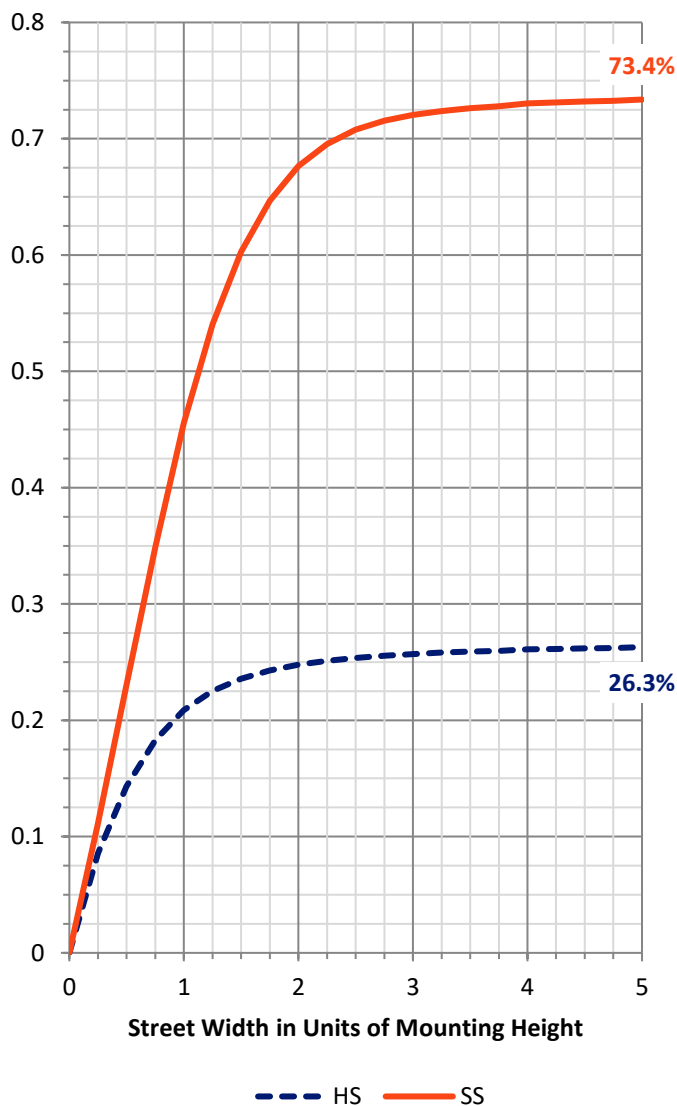
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8300.1	0.0	8300.1
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	23023.9	0.0	23023.9
	% Fixture	73.5	0.0	73.5
Total	Lumens	31324.0	0.0	31324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.2	1.7
10°-20°	1629.5	5.2
20°-30°	2731.5	8.7
30°-40°	4090.0	13.1
40°-50°	5468.3	17.5
50°-60°	6384.4	20.4
60°-70°	6348.3	20.3
70°-80°	3758.3	12.0
80°-90°	370.4	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°	31324.0	100.0
0°-180°	31324.0	100.0

Coefficient of Utilization



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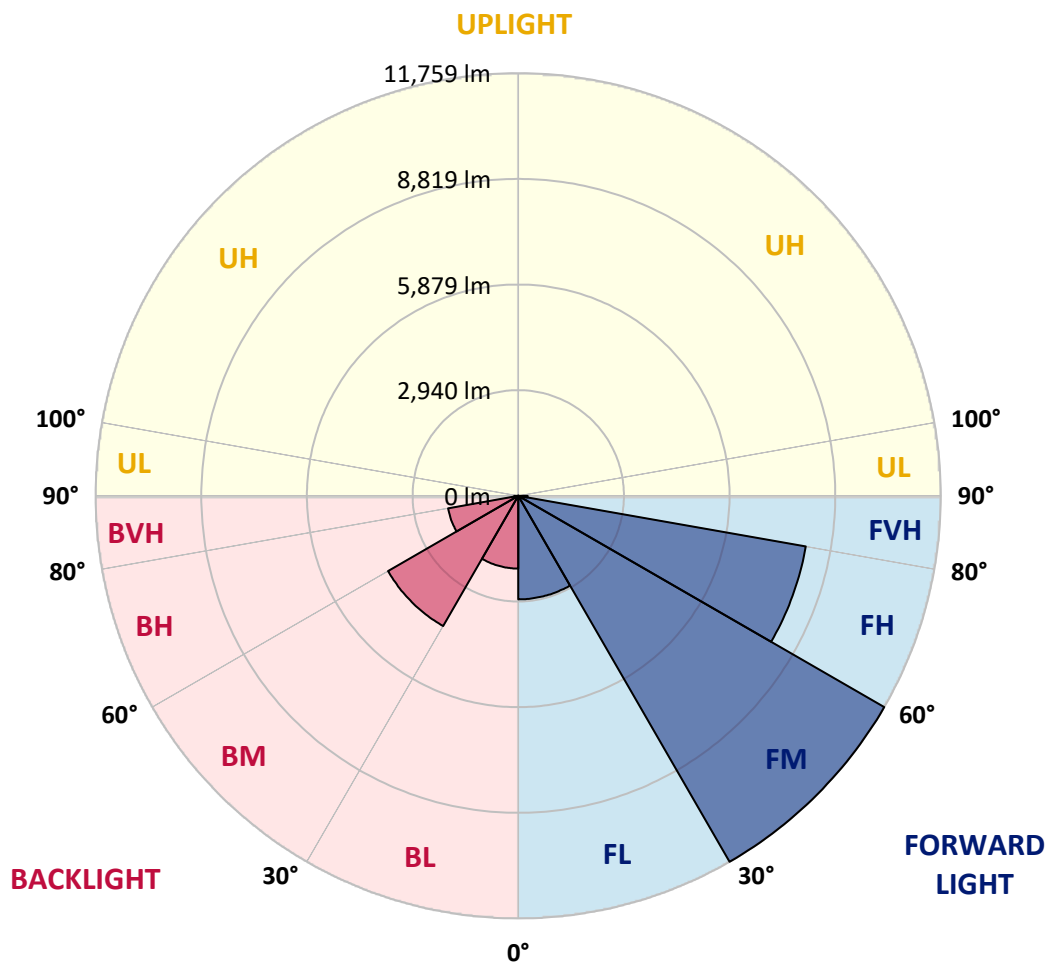
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2881.0	9.2			
FM	(30°-60°)	11758.6	37.5			
FH	(60°-80°)	8123.9	25.9			G4/12000
FVH	(80°-90°)	260.3	0.8			G3/500
BL	(0°-30°)	2023.2	6.5	B3/2500		
BM	(30°-60°)	4184.1	13.4	B3/5000		
BH	(60°-80°)	1982.7	6.3	B3/2500		G3/2500
BVH	(80°-90°)	110.1	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°	5653.3	5653.3	5653.3	5653.3	5653.3	5653.3	5653.3	5653.3	5653.3	5653.3	5653.3
2.5°	5861.1	5851.9	5847.3	5828.8	5787.2	5805.7	5764.1	5736.4	5731.8	5667.1	5630.2
5°	6101.3	6096.7	6087.4	6059.7	5995.1	6004.3	5935.0	5884.2	5870.3	5768.7	5690.2
7.5°	6304.5	6295.3	6290.6	6253.7	6184.4	6179.8	6096.7	6022.8	5999.7	5861.1	5741.0
10°	6461.5	6447.7	6456.9	6420.0	6346.1	6332.2	6226.0	6129.0	6105.9	5930.4	5764.1
12.5°	6595.5	6586.2	6600.1	6567.8	6507.7	6493.9	6387.6	6262.9	6235.2	6032.0	5814.9
15°	6743.3	6710.9	6738.7	6724.8	6683.2	6678.6	6581.6	6443.1	6406.1	6161.3	5893.4
17.5°	6821.8	6803.3	6835.7	6840.3	6821.8	6854.1	6761.8	6595.5	6563.1	6281.4	5962.7
20°	6877.2	6849.5	6886.5	6914.2	6928.0	6992.7	6918.8	6757.1	6720.2	6396.9	6027.4
22.5°	7066.6	7006.5	7011.2	7029.6	7038.9	7131.2	7085.1	6928.0	6891.1	6540.1	6105.9
25°	7542.3	7422.2	7343.7	7288.3	7223.6	7302.1	7274.4	7122.0	7089.7	6710.9	6202.9
27.5°	8281.3	8128.9	7971.8	7810.2	7556.2	7523.8	7477.6	7339.1	7302.1	6881.8	6299.9
30°	9121.9	8969.5	8784.7	8526.1	8050.4	7801.0	7694.7	7542.3	7500.7	7034.3	6392.3
32.5°	9957.9	9823.9	9639.2	9325.1	8646.2	8138.1	7911.8	7754.8	7713.2	7200.5	6503.1
35°	10609.1	10526.0	10405.9	10013.3	9237.4	8535.3	8225.9	8036.5	7990.3	7463.8	6706.3
37.5°	11135.6	11075.6	10974.0	10562.9	9666.9	8932.5	8586.1	8369.1	8318.2	7750.2	6923.4
40°	11911.6	11754.5	11671.4	11075.6	10041.0	9292.8	8992.6	8766.3	8710.8	8055.0	7098.9
42.5°	12572.1	12456.6	12355.0	11532.9	10396.7	9602.2	9375.9	9168.1	9094.2	8355.2	7288.3
45°	12682.9	12729.1	12678.3	11759.2	10960.1	9907.1	9763.9	9630.0	9560.7	8761.6	7574.6
47.5°	12687.5	12687.5	12387.3	11888.5	11657.6	10248.9	10179.6	10225.8	10151.9	9278.9	7916.4
50°	12355.0	12415.0	12258.0	11920.8	11842.3	10590.6	10687.6	10937.0	10863.1	9828.6	8285.9
52.5°	11666.8	11865.4	11860.8	11870.0	11574.4	10881.6	11223.4	11791.5	11666.8	10447.5	8678.5
55°	10452.1	10849.3	11204.9	11509.8	11343.5	11057.1	11879.3	12701.4	12572.1	11140.3	9075.7
57.5°	9412.9	9666.9	10110.3	10974.0	11071.0	11209.5	12493.5	13652.8	13537.4	11907.0	9491.4
60°	8225.9	8576.9	9020.3	10248.9	10738.4	11408.1	13167.9	14581.2	14470.3	12682.9	9893.2
62.5°	6401.5	6854.1	7740.9	9135.8	10253.5	11532.9	13699.0	15398.7	15347.9	13417.3	10253.5
65°	4461.6	4863.5	6105.9	7768.6	9482.2	11477.4	14123.9	16128.4	16082.3	14017.7	10507.5
67.5°	2604.9	3071.4	4475.5	6253.7	8119.6	11094.1	14262.5	16558.0	16558.0	14382.6	10576.8
70°	1487.2	1704.3	2951.3	4558.6	6226.0	10036.4	13874.5	16553.4	16631.9	14299.4	10290.4
72.5°	1039.2	1136.2	1986.0	3066.8	4221.5	8119.6	12858.4	15754.3	15860.6	13514.3	9311.3
75°	808.3	877.5	1399.5	2092.3	2660.4	5514.7	10636.8	13283.3	13565.1	11519.0	7528.5
77.5°	614.3	665.1	817.5	1307.1	1704.3	3168.4	7020.4	8710.8	8729.3	7052.7	4036.7
80°	448.0	498.8	545.0	799.0	905.3	1482.6	2651.1	3639.5	3537.9	3413.2	2184.6
82.5°	267.9	318.7	332.5	434.2	443.4	632.8	928.4	1173.1	1127.0	1501.1	1025.3
85°	115.5	161.7	170.9	198.6	189.4	258.6	369.5	309.5	277.1	318.7	221.7
87.5°	27.7	46.2	46.2	50.8	41.6	64.7	69.3	50.8	46.2	55.4	55.4
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°	5653.3	5653.3	5653.3	5653.3	5653.3	5653.3	5653.3	5653.3	5653.3	5653.3	5653.3
2.5°	5620.9	5607.1	5611.7	5533.2	5510.1	5487.0	5473.1	5463.9	5454.7	5468.5	5482.4
5°	5662.5	5630.2	5593.2	5477.8	5431.6	5380.8	5343.8	5311.5	5297.6	5297.6	5311.5
7.5°	5694.8	5639.4	5560.9	5408.5	5325.3	5256.1	5196.0	5154.5	5131.4	5131.4	5145.2
10°	5699.5	5620.9	5496.2	5311.5	5200.6	5099.0	5029.7	4983.6	4951.2	4951.2	4960.5
12.5°	5727.2	5620.9	5459.3	5237.6	5099.0	4974.3	4891.2	4821.9	4808.0	4808.0	4817.3
15°	5773.4	5644.0	5436.2	5172.9	5006.7	4863.5	4771.1	4697.2	4669.5	4688.0	4692.6
17.5°	5814.9	5657.9	5394.6	5089.8	4891.2	4734.2	4632.5	4567.9	4530.9	4572.5	4572.5
20°	5842.6	5657.9	5334.6	4983.6	4766.5	4591.0	4494.0	4415.5	4387.7	4438.6	4443.2
22.5°	5884.2	5653.3	5269.9	4877.3	4632.5	4447.8	4350.8	4290.8	4276.9	4332.3	4350.8
25°	5930.4	5662.5	5200.6	4757.2	4484.7	4304.6	4230.7	4203.0	4212.2	4281.5	4304.6
27.5°	5981.2	5681.0	5131.4	4623.3	4323.1	4161.4	4119.9	4133.7	4170.7	4258.4	4286.1
30°	6027.4	5685.6	5034.4	4466.3	4138.3	3985.9	4004.4	4064.4	4119.9	4207.6	4240.0
32.5°	6087.4	5690.2	4932.8	4295.4	3939.7	3828.9	3912.0	4009.0	4064.4	4147.6	4184.5
35°	6235.2	5768.7	4854.2	4129.1	3755.0	3694.9	3833.5	3958.2	3990.5	4064.4	4096.8
37.5°	6406.1	5898.1	4812.7	3958.2	3574.9	3561.0	3736.5	3861.2	3870.5	3916.6	3949.0
40°	6512.3	5953.5	4766.5	3815.0	3413.2	3422.4	3602.6	3699.6	3681.1	3713.4	3736.5
42.5°	6618.6	5972.0	4669.5	3694.9	3260.8	3270.0	3408.6	3477.9	3487.1	3556.4	3588.7
45°	6798.7	6022.8	4563.3	3584.1	3122.2	3089.9	3173.0	3265.4	3385.5	3519.4	3556.4
47.5°	7038.9	6129.0	4452.4	3450.2	2988.3	2882.1	2914.4	3076.0	3200.7	3325.5	3348.5
50°	7283.7	6235.2	4350.8	3288.5	2854.3	2660.4	2674.2	2822.0	2923.6	3020.6	3034.5
52.5°	7523.8	6327.6	4263.0	3136.1	2701.9	2397.1	2452.5	2604.9	2674.2	2720.4	2734.3
55°	7764.0	6406.1	4184.5	3006.8	2526.4	2189.3	2240.1	2383.2	2452.5	2475.6	2484.9
57.5°	8013.4	6498.5	4124.5	2895.9	2327.8	2004.5	2036.8	2138.5	2203.1	2230.8	2221.6
60°	8221.3	6577.0	4092.2	2780.4	2129.2	1833.6	1824.4	1916.8	2009.1	2036.8	2027.6
62.5°	8382.9	6627.8	4041.3	2632.6	1953.7	1662.7	1616.5	1736.6	1833.6	1852.1	1865.9
65°	8470.7	6632.4	3916.6	2443.3	1773.6	1478.0	1445.6	1565.7	1625.8	1644.3	1644.3
67.5°	8456.8	6558.5	3671.9	2189.3	1607.3	1311.7	1284.0	1357.9	1445.6	1459.5	1445.6
70°	8170.5	6253.7	3279.3	1921.4	1408.7	1163.9	1113.1	1187.0	1270.1	1219.3	1196.2
72.5°	7357.6	5463.9	2701.9	1625.8	1187.0	979.2	956.1	1030.0	1034.6	1043.8	1020.7
75°	5805.7	4069.1	2023.0	1265.5	960.7	822.1	817.5	803.7	822.1	859.1	831.4
77.5°	3048.3	2032.2	1094.6	775.9	697.4	660.5	628.1	623.5	678.9	702.0	674.3
80°	1653.5	1140.8	628.1	466.5	424.9	429.5	471.1	461.9	521.9	535.8	512.7
82.5°	720.5	540.4	309.5	281.7	281.7	277.1	291.0	323.3	388.0	388.0	309.5
85°	157.0	133.9	120.1	138.6	157.0	157.0	157.0	157.0	110.8	60.0	41.6
87.5°	50.8	50.8	50.8	55.4	60.0	60.0	50.8	36.9	23.1	4.6	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)