

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: P841587

Luminaire Tested: **ARCH4-200-727-U-T2R**

Issue Date: 5/27/2024

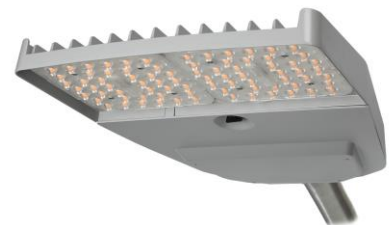
Test Information

Test Method: LM-79-08
Report Number: P841587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-200-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30261 lumens
Efficiency: N/A
Efficacy: 148.6 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): 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



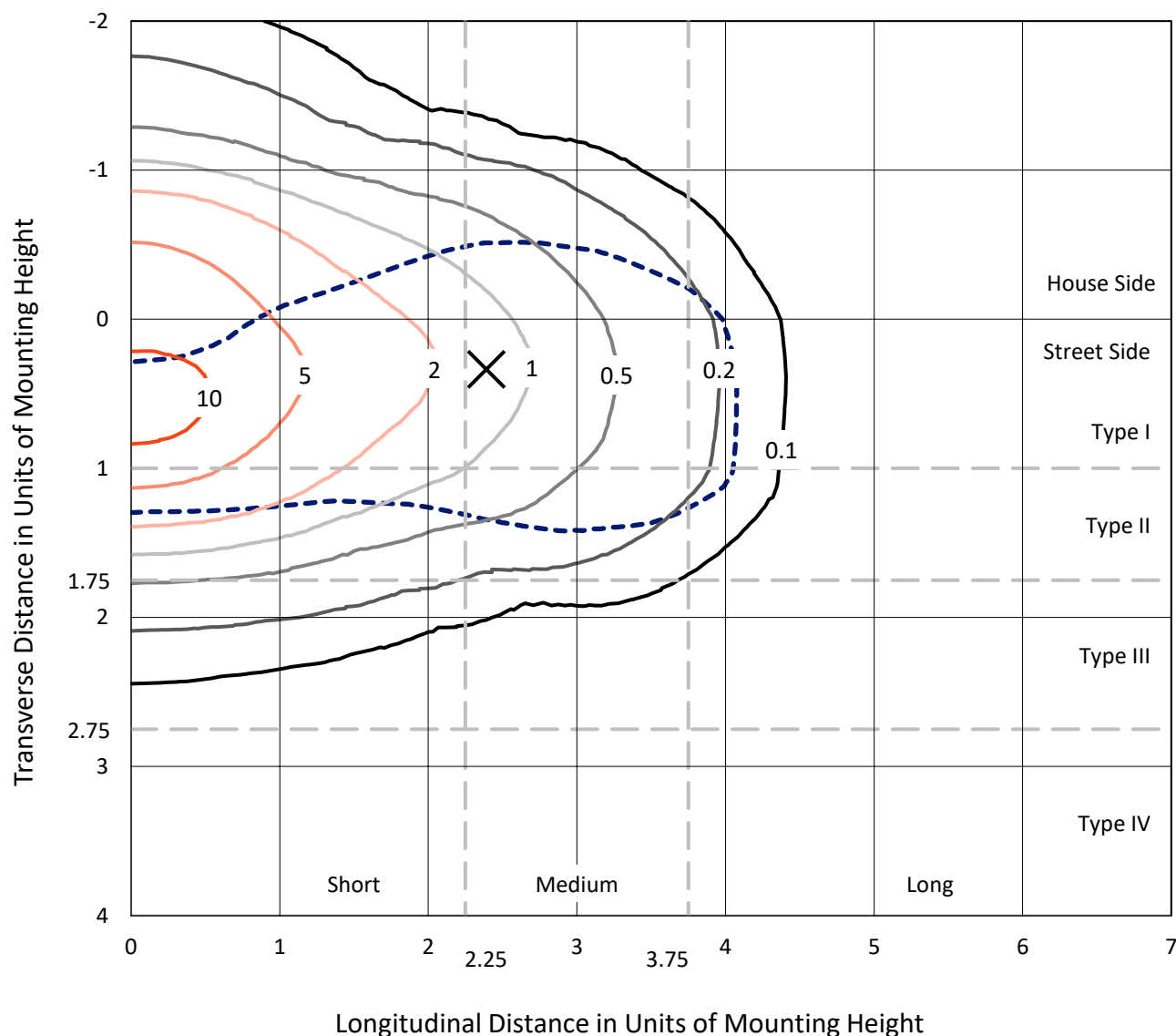
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

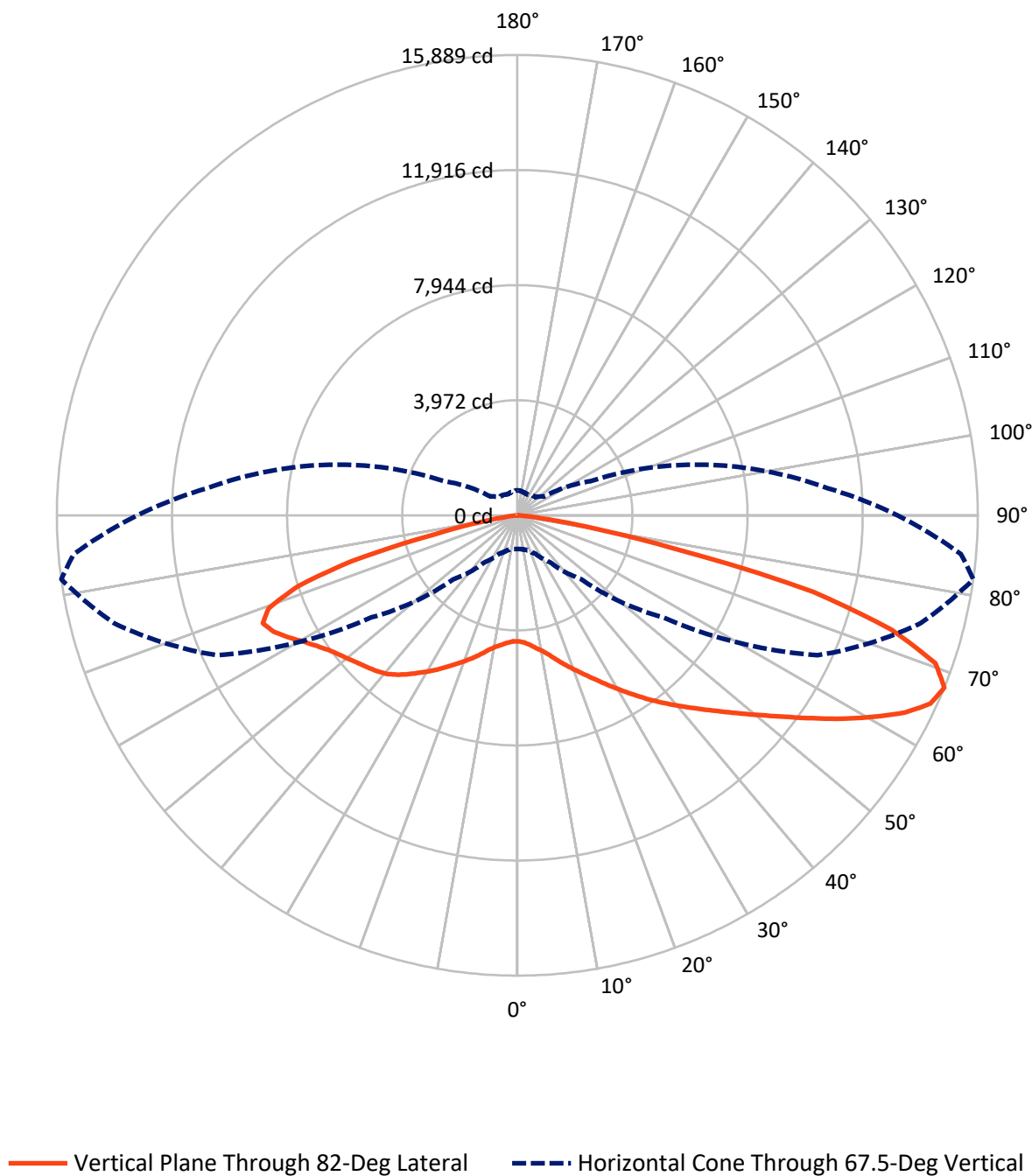
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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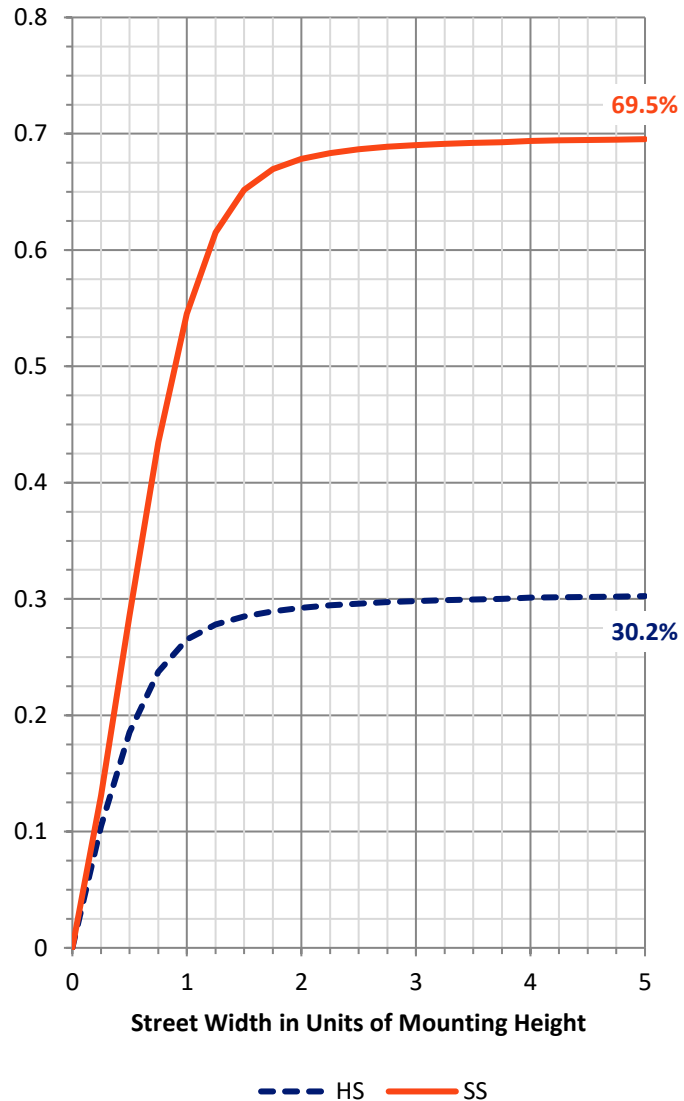
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9215.7	0.0	9215.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	21045.3	0.0	21045.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	30261.0	0.0	30261.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.6	1.5
10°-20°	1619.3	5.4
20°-30°	3254.4	10.8
30°-40°	5112.2	16.9
40°-50°	6227.7	20.6
50°-60°	5884.4	19.4
60°-70°	4859.2	16.1
70°-80°	2646.0	8.7
80°-90°	208.1	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°	30261.0	100.0
0°-180°	30261.0	100.0

Coefficient of Utilization



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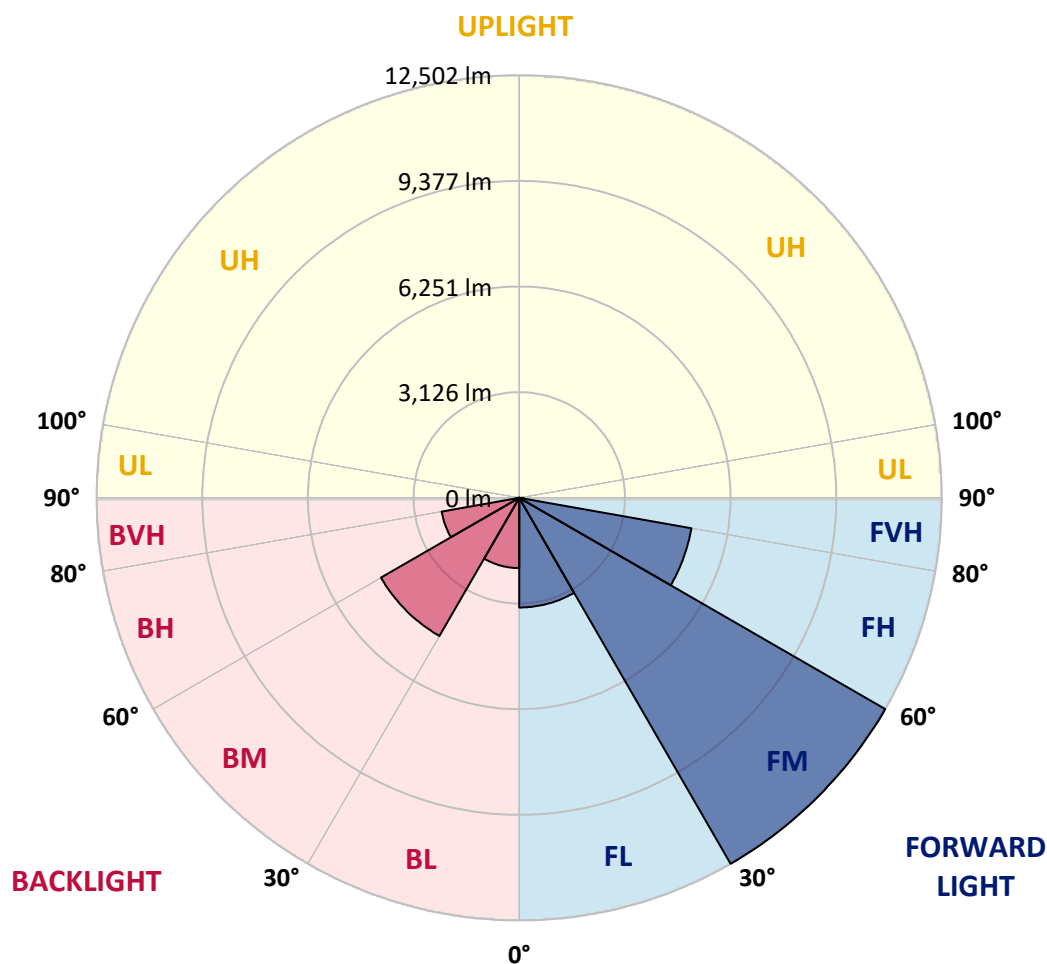
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3245.1	10.7			
FM	(30°-60°)	12502.1	41.3			
FH	(60°-80°)	5172.7	17.1			G3/7500
FVH	(80°-90°)	125.4	0.4			G2/225
BL	(0°-30°)	2078.2	6.9	B3/2500		
BM	(30°-60°)	4722.3	15.6	B3/5000		
BH	(60°-80°)	2332.5	7.7	B3/2500		G3/2500
BVH	(80°-90°)	82.6	0.3			G1/100
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°	82°	85°
0°	4350.0	4350.0	4350.0	4350.0	4350.0	4350.0	4350.0	4350.0	4350.0	4350.0	4350.0
2.5°	4547.7	4547.7	4582.9	4582.9	4552.1	4503.8	4490.6	4437.9	4389.5	4389.5	4393.9
5°	4982.7	4978.3	5004.7	4969.5	4894.9	4798.2	4732.3	4618.0	4521.4	4490.6	4486.2
7.5°	5514.4	5510.0	5523.2	5466.1	5325.5	5167.3	5035.5	4850.9	4692.7	4626.8	4609.2
10°	6107.6	6103.2	6090.0	5993.3	5804.4	5558.3	5360.6	5105.8	4868.5	4763.0	4741.1
12.5°	6788.6	6779.9	6749.1	6608.5	6349.2	6032.9	5747.3	5417.7	5101.4	4956.4	4908.0
15°	7548.8	7535.6	7478.5	7307.1	6960.0	6560.2	6191.1	5769.2	5382.6	5193.6	5127.7
17.5°	8348.5	8348.5	8260.6	8005.8	7619.1	7122.6	6665.6	6129.5	5677.0	5444.1	5365.0
20°	9161.4	9157.0	9047.1	8739.6	8282.6	7711.4	7131.4	6542.6	5980.2	5698.9	5602.3
22.5°	10018.2	10009.4	9873.2	9521.7	8976.8	8330.9	7654.2	6951.2	6314.1	5975.8	5852.7
25°	11002.4	10989.3	10822.3	10391.7	9745.8	9016.4	8243.0	7430.2	6696.4	6283.3	6138.3
27.5°	12048.2	12030.6	11832.9	11332.0	10624.6	9745.8	8893.3	7983.8	7118.2	6626.1	6463.5
30°	12979.7	12966.5	12751.2	12237.1	11424.3	10470.8	9512.9	8537.4	7562.0	6990.8	6788.6
32.5°	13682.7	13682.7	13489.4	12984.1	12140.5	11165.0	10136.8	9060.3	8023.3	7381.8	7144.6
35°	14108.9	14122.1	13955.2	13550.9	12755.6	11819.7	10782.7	9675.5	8515.5	7799.2	7544.4
37.5°	14170.5	14214.4	14117.7	13845.3	13181.8	12364.6	11415.5	10268.6	9025.2	8221.1	7935.5
40°	13884.9	13915.6	13920.0	13814.6	13357.6	12755.6	11973.5	10897.0	9565.6	8664.9	8335.3
42.5°	13313.6	13335.6	13375.2	13405.9	13230.2	12927.0	12399.7	11481.4	10141.2	9117.4	8730.8
45°	12575.5	12571.1	12637.0	12768.8	12760.0	12830.3	12637.0	12013.0	10738.8	9631.5	9170.2
47.5°	11472.6	11450.6	11683.5	11982.3	12131.7	12461.2	12641.4	12430.5	11389.1	10198.3	9671.1
50°	9745.8	9723.8	10233.5	10936.5	11375.9	11876.8	12399.7	12680.9	12070.2	10835.5	10215.9
52.5°	7645.5	7623.5	8269.4	9499.7	10457.6	11187.0	11912.0	12738.0	12716.1	11547.3	10831.1
55°	5685.8	5668.2	6296.5	7627.9	9178.9	10387.3	11314.4	12588.6	13322.4	12364.6	11578.0
57.5°	4007.3	3998.5	4543.3	5646.2	7535.6	9411.8	10738.8	12298.6	13880.5	13252.1	12421.7
60°	2812.1	2798.9	3194.4	4046.8	5698.9	7939.9	10167.6	11912.0	14297.9	14126.5	13318.0
62.5°	1893.8	1885.0	2166.2	2878.0	4046.8	6112.0	9302.0	11652.7	14535.2	15005.3	14223.2
65°	1436.8	1432.4	1559.8	1950.9	2864.9	4389.5	7926.7	11622.0	14565.9	15664.4	14992.1
67.5°	1160.0	1164.4	1234.7	1458.8	1981.7	3119.7	6147.1	11428.6	14403.3	15888.5	15365.6
70°	949.1	949.1	979.8	1129.2	1463.2	2104.7	4292.9	10549.9	13950.8	15304.1	14921.8
72.5°	725.0	729.4	826.1	913.9	1102.9	1476.4	2750.6	8730.8	12883.0	13493.8	13203.8
75°	575.6	571.2	628.3	751.4	856.8	1054.5	1687.3	6261.4	10962.9	10545.5	10360.9
77.5°	413.0	408.6	452.6	558.0	650.3	747.0	1006.2	3159.2	5962.6	5479.2	5343.0
80°	281.2	272.4	312.0	386.7	430.6	439.4	492.1	1212.7	2601.2	2451.8	2421.1
82.5°	145.0	145.0	167.0	219.7	224.1	228.5	219.7	391.1	861.2	804.1	768.9
85°	57.1	57.1	61.5	74.7	74.7	79.1	79.1	101.1	92.3	87.9	83.5
87.5°	4.4	4.4	8.8	8.8	13.2	13.2	13.2	17.6	22.0	22.0	22.0
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°	4350.0	4350.0	4350.0	4350.0	4350.0	4350.0	4350.0	4350.0	4350.0	4350.0	4350.0
2.5°	4385.2	4367.6	4310.5	4297.3	4288.5	4275.3	4279.7	4248.9	4235.8	4240.2	4222.6
5°	4464.2	4433.5	4363.2	4332.4	4323.6	4310.5	4323.6	4301.7	4279.7	4288.5	4279.7
7.5°	4574.1	4530.2	4442.3	4411.5	4407.1	4393.9	4411.5	4393.9	4376.4	4385.2	4367.6
10°	4688.3	4631.2	4534.5	4503.8	4503.8	4499.4	4517.0	4490.6	4473.0	4477.4	4468.6
12.5°	4855.3	4780.6	4675.2	4648.8	4635.6	4648.8	4653.2	4618.0	4587.3	4591.7	4578.5
15°	5057.4	4973.9	4859.7	4820.2	4811.4	4807.0	4789.4	4745.5	4705.9	4701.5	4688.3
17.5°	5277.1	5171.7	5035.5	4995.9	4956.4	4943.2	4899.2	4842.1	4780.6	4780.6	4763.0
20°	5488.0	5369.4	5206.8	5149.7	5092.6	5039.9	4965.2	4872.9	4793.8	4780.6	4763.0
22.5°	5716.5	5575.9	5387.0	5303.5	5202.4	5097.0	4969.5	4846.5	4745.5	4723.5	4710.3
25°	5971.4	5795.6	5571.5	5448.5	5285.9	5123.3	4934.4	4776.2	4657.6	4622.4	4613.6
27.5°	6252.6	6041.7	5769.2	5589.1	5351.8	5097.0	4855.3	4666.4	4521.4	4477.4	4464.2
30°	6538.2	6287.7	5949.4	5685.8	5351.8	5013.5	4710.3	4490.6	4323.6	4262.1	4253.3
32.5°	6823.8	6542.6	6112.0	5738.5	5299.1	4872.9	4521.4	4262.1	4073.2	3998.5	4016.1
35°	7166.5	6823.8	6261.4	5760.5	5211.2	4701.5	4306.1	4002.9	3809.5	3743.6	3756.8
37.5°	7522.4	7105.0	6380.0	5742.9	5088.2	4508.2	4064.4	3770.0	3528.3	3414.1	3427.3
40°	7830.0	7359.9	6463.5	5681.4	4930.0	4288.5	3827.1	3440.5	3106.5	2996.7	2983.5
42.5°	8120.0	7548.8	6507.4	5589.1	4749.9	4033.6	3488.8	2992.3	2658.3	2522.1	2526.5
45°	8423.2	7733.3	6489.9	5466.1	4525.8	3734.9	3053.8	2552.9	2258.5	2135.5	2139.9
47.5°	8770.3	7931.1	6472.3	5334.2	4253.3	3348.2	2636.4	2166.2	1911.4	1823.5	1814.7
50°	9139.4	8150.8	6450.3	5171.7	3950.2	2917.6	2223.3	1805.9	1590.6	1533.5	1520.3
52.5°	9556.8	8388.0	6437.1	4978.3	3585.5	2460.6	1854.2	1489.5	1344.5	1305.0	1300.6
55°	10057.7	8664.9	6454.7	4745.5	3146.1	2030.0	1542.3	1283.0	1186.4	1164.4	1160.0
57.5°	10668.5	9020.8	6507.4	4473.0	2684.7	1656.5	1313.8	1155.6	1094.1	1076.5	1076.5
60°	11332.0	9425.0	6604.1	4165.5	2223.3	1366.5	1164.4	1054.5	1028.2	1050.2	1050.2
62.5°	12048.2	9899.6	6775.5	3792.0	1792.7	1155.6	1045.8	971.1	953.5	997.4	1001.8
65°	12711.7	10360.9	6885.3	3343.8	1423.6	1001.8	953.5	887.6	896.4	940.3	935.9
67.5°	13120.3	10743.2	6731.5	2781.4	1129.2	887.6	856.8	799.7	821.7	856.8	861.2
70°	12869.9	10527.9	5971.4	2100.3	883.2	773.3	751.4	716.2	733.8	777.7	795.3
72.5°	11643.9	9429.4	4644.4	1419.2	711.8	650.3	659.1	641.5	663.5	703.0	742.6
75°	9451.4	7127.0	3115.3	909.5	562.4	553.6	566.8	553.6	562.4	602.0	623.9
77.5°	4934.4	3475.6	1551.1	566.8	417.4	430.6	452.6	457.0	483.3	492.1	500.9
80°	2302.4	1564.2	645.9	316.4	276.8	303.2	347.1	351.5	360.3	373.5	377.9
82.5°	751.4	470.2	298.8	171.4	158.2	171.4	224.1	268.0	272.4	298.8	298.8
85°	79.1	48.3	65.9	70.3	61.5	74.7	101.1	96.7	43.9	26.4	26.4
87.5°	22.0	17.6	22.0	22.0	17.6	17.6	13.2	4.4	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)