

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: P841163

Luminaire Tested: **ARCH4-140-730-U-T2R-HSS**

Issue Date: 5/27/2024

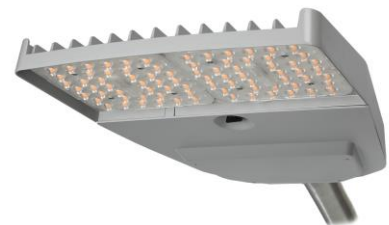
Test Information

Test Method: LM-79-08
Report Number: P841163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-140-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16238 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

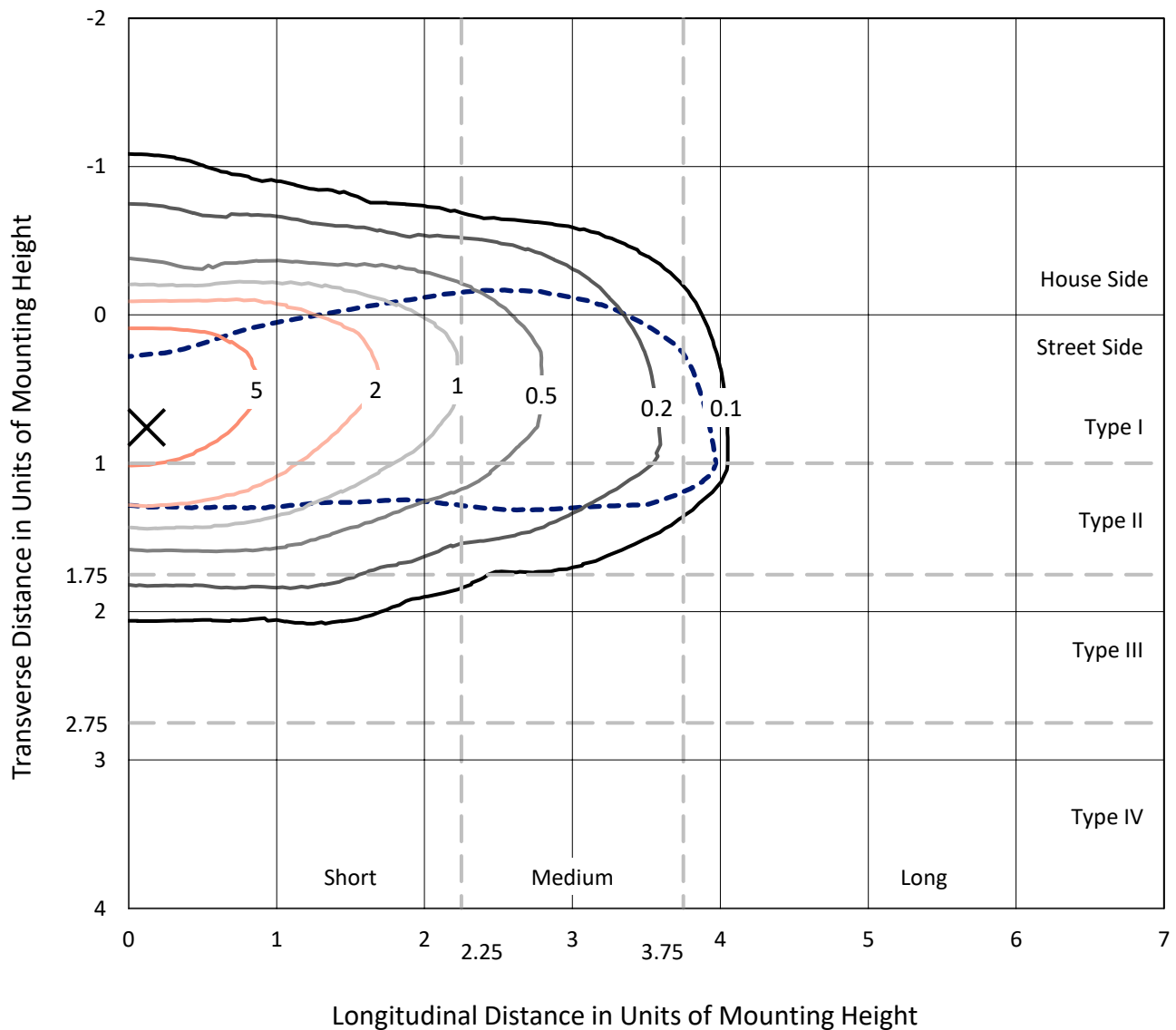
Input Watts (W): 141.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

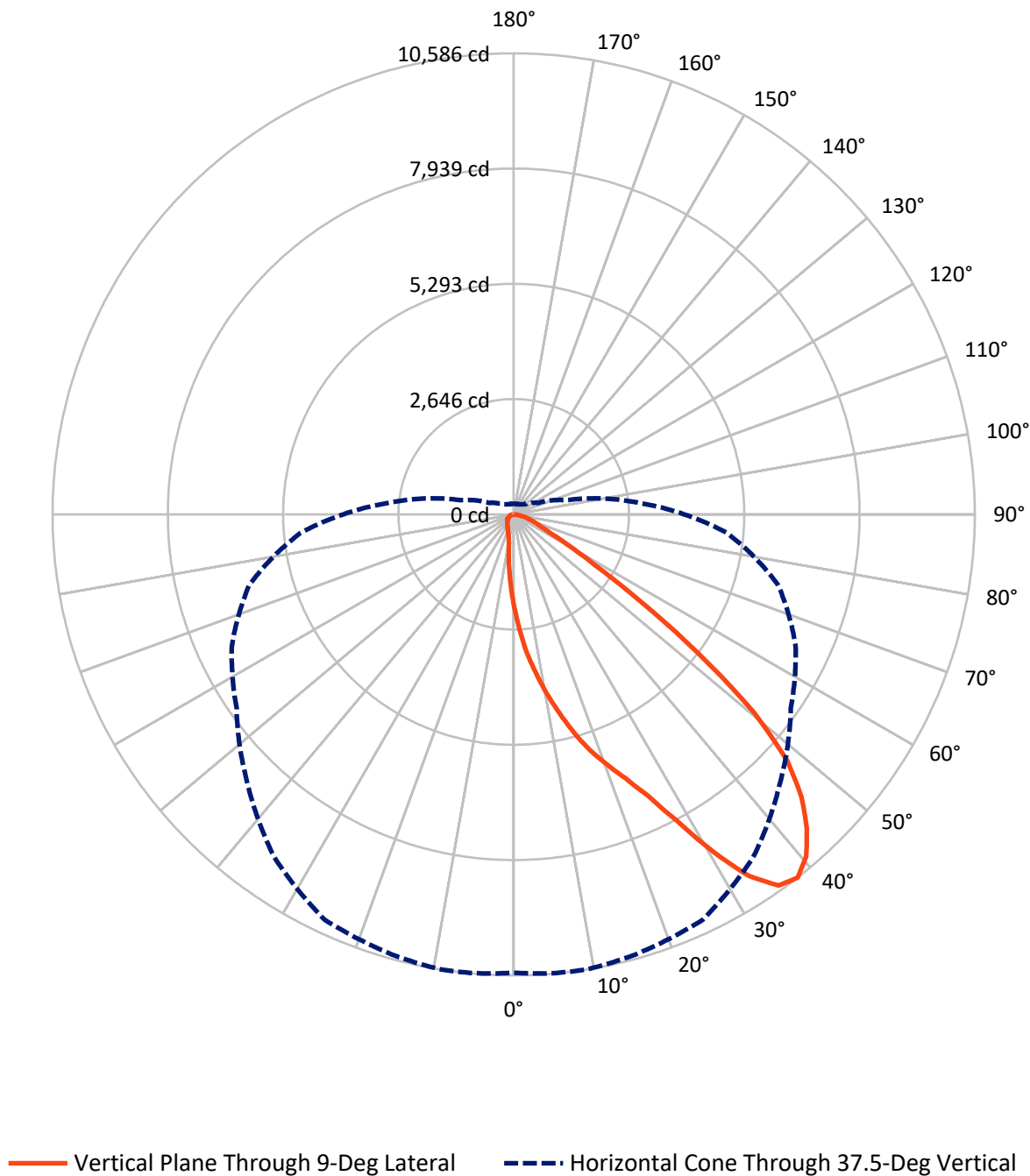
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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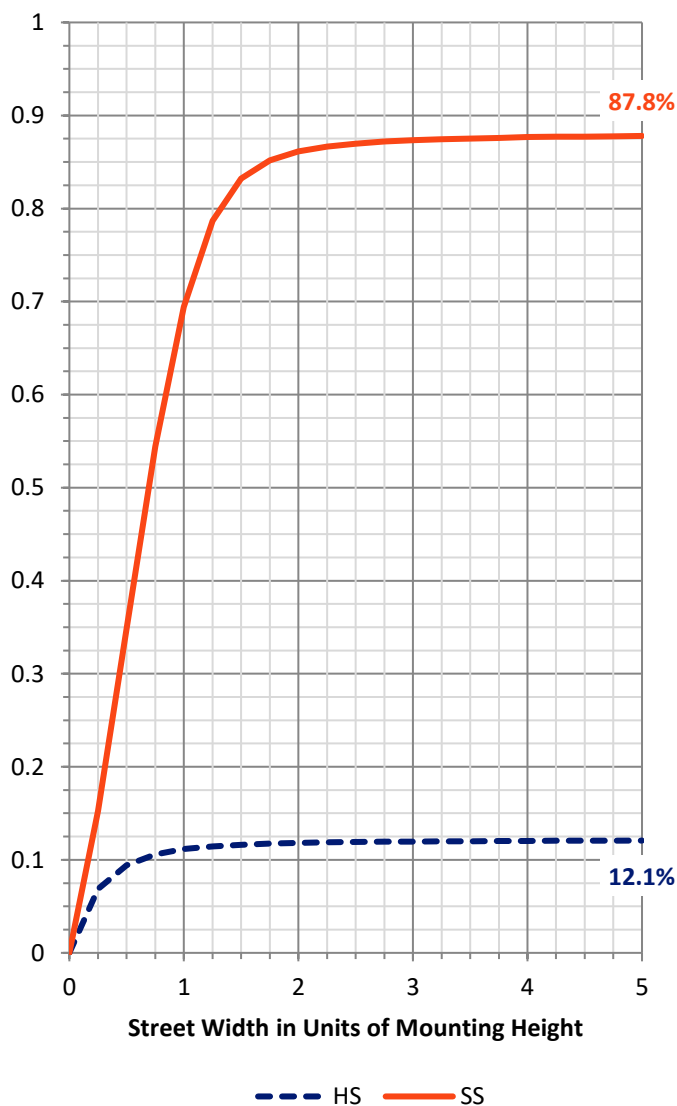
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1974.8	0.0	1974.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	14263.2	0.0	14263.2
	% Fixture	87.8	0.0	87.8
Total	Lumens	16238.0	0.0	16238.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.8	1.3
10°-20°	749.9	4.6
20°-30°	1540.8	9.5
30°-40°	2723.6	16.8
40°-50°	3618.0	22.3
50°-60°	3431.4	21.1
60°-70°	2617.9	16.1
70°-80°	1269.2	7.8
80°-90°	71.4	0.4
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°	16238.0	100.0
0°-180°	16238.0	100.0

Coefficient of Utilization



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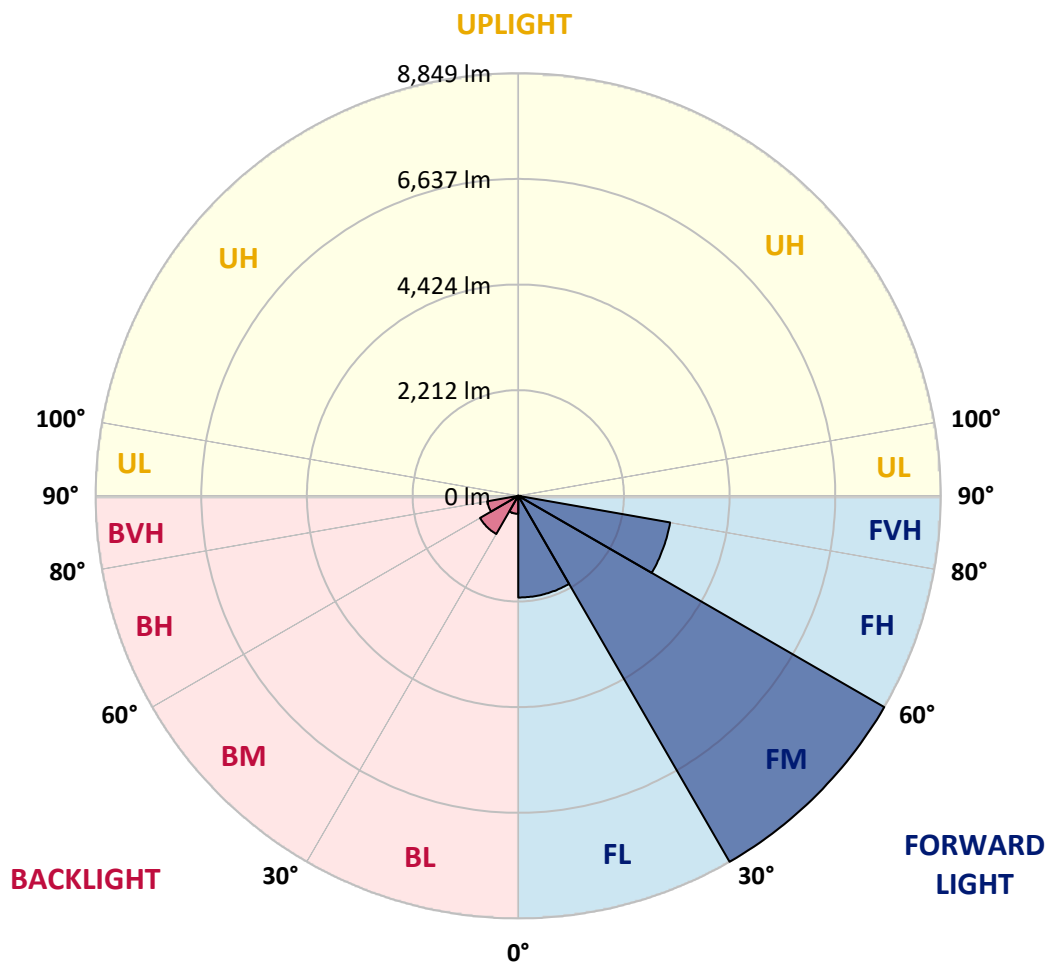
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2129.6	13.1			
FM	(30°-60°)	8848.9	54.5			
FH	(60°-80°)	3228.1	19.9			G2/5000
FVH	(80°-90°)	56.6	0.3			G1/100
BL	(0°-30°)	376.9	2.3	B1/500		
BM	(30°-60°)	924.1	5.7	B1/1000		
BH	(60°-80°)	659.0	4.1	B2/1000		G2/1000
BVH	(80°-90°)	14.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5
2.5°	2659.8	2613.1	2666.4	2659.8	2613.1	2583.1	2489.8	2459.8	2349.8	2269.8	2199.8
5°	3206.4	3159.7	3206.4	3193.0	3126.4	3053.0	2899.7	2799.7	2603.1	2429.8	2273.1
7.5°	3659.7	3659.7	3679.7	3683.0	3603.0	3489.7	3299.7	3149.7	2873.1	2606.4	2356.4
10°	4149.6	4152.9	4196.3	4166.3	4059.6	3906.3	3666.3	3476.3	3143.0	2793.1	2436.4
12.5°	4672.9	4676.2	4689.6	4676.2	4549.6	4352.9	4063.0	3813.0	3429.7	3006.4	2546.4
15°	5196.2	5199.5	5216.2	5192.9	5052.9	4822.9	4492.9	4186.3	3733.0	3246.4	2679.8
17.5°	5686.1	5692.8	5706.1	5676.1	5529.5	5256.2	4919.5	4549.6	4056.3	3503.0	2829.7
20°	6126.1	6132.8	6142.8	6102.8	5956.1	5682.8	5319.5	4932.9	4386.3	3766.3	2993.1
22.5°	6569.4	6576.1	6592.7	6539.4	6376.1	6062.8	5706.1	5306.2	4736.2	4056.3	3183.0
25°	7136.0	7142.7	7156.0	7079.3	6856.0	6489.4	6112.8	5702.8	5116.2	4382.9	3416.3
27.5°	7965.9	7959.3	7959.3	7819.3	7436.0	6959.4	6522.7	6106.1	5526.2	4732.9	3673.0
30°	8992.5	8975.8	8965.8	8775.9	8229.2	7489.3	6942.7	6482.7	5919.4	5102.9	3949.6
32.5°	9912.4	9912.4	9892.4	9692.4	9112.5	8202.6	7389.3	6849.4	6299.4	5476.2	4236.3
35°	10455.7	10479.0	10469.0	10319.0	9895.7	8969.2	7992.6	7289.3	6699.4	5866.1	4579.6
37.5°	10529.0	10575.7	10585.7	10495.7	10272.4	9595.8	8662.5	7765.9	7139.3	6286.1	4912.9
40°	10232.4	10332.4	10332.4	10319.0	10239.0	9892.4	9225.8	8319.2	7592.6	6722.7	5249.5
42.5°	9775.8	9879.1	9865.7	9915.7	9895.7	9822.4	9542.4	8835.8	8045.9	7172.7	5556.2
45°	9179.1	9285.8	9259.1	9349.1	9389.1	9469.1	9509.1	9195.8	8492.5	7662.6	5899.5
47.5°	8222.6	8402.6	8442.5	8602.5	8769.2	9019.2	9209.1	9325.8	8909.2	8189.2	6272.8
50°	6809.4	7062.7	7142.7	7479.3	7935.9	8452.5	8759.2	9165.8	9202.5	8729.2	6676.0
52.5°	4876.2	5169.5	5292.8	5846.1	6786.0	7686.0	8239.2	8812.5	9315.8	9245.8	7112.7
55°	3153.0	3403.0	3523.0	4043.0	5292.8	6706.0	7626.0	8355.9	9252.5	9719.1	7612.6
57.5°	1943.2	2086.5	2166.5	2613.1	3763.0	5449.5	6822.7	7935.9	9059.2	10129.1	8132.6
60°	1309.9	1393.2	1433.2	1643.2	2556.4	4073.0	5719.5	7496.0	8805.8	10405.7	8605.9
62.5°	869.9	896.6	936.6	1066.6	1686.5	2859.7	4392.9	6709.4	8615.9	10422.4	8955.8
65°	673.3	686.6	703.3	759.9	1039.9	1999.8	3089.7	5436.2	8332.6	10069.1	9065.8
67.5°	530.0	543.3	563.3	593.3	753.3	1356.5	2103.1	3983.0	7752.6	9515.8	8885.8
70°	416.6	426.6	440.0	466.6	586.6	983.2	1389.9	2646.4	6582.7	8989.2	8319.2
72.5°	330.0	340.0	353.3	380.0	476.6	719.9	953.2	1649.8	5076.2	8345.9	7229.3
75°	260.0	266.6	276.6	303.3	383.3	559.9	646.6	986.6	3449.7	7169.3	5632.8
77.5°	130.0	160.0	183.3	210.0	280.0	386.6	430.0	546.6	1456.5	3679.7	2686.4
80°	76.7	93.3	100.0	116.7	183.3	233.3	233.3	220.0	460.0	1413.2	1096.6
82.5°	43.3	60.0	63.3	66.7	110.0	133.3	106.7	80.0	93.3	473.3	320.0
85°	13.3	20.0	23.3	26.7	36.7	40.0	36.7	33.3	26.7	46.7	30.0
87.5°	0.0	0.0	0.0	0.0	3.3	6.7	6.7	6.7	10.0	10.0	10.0
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°	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5
2.5°	2159.8	2116.5	2033.1	1956.5	1883.2	1829.8	1779.8	1733.2	1699.8	1673.2	1669.8
5°	2189.8	2103.1	1943.2	1793.2	1656.5	1543.2	1446.5	1369.9	1313.2	1273.2	1269.9
7.5°	2229.8	2096.5	1853.2	1629.8	1426.5	1263.2	1123.2	1019.9	946.6	916.6	893.3
10°	2263.1	2089.8	1763.2	1466.5	1199.9	993.2	826.6	723.3	669.9	649.9	639.9
12.5°	2319.8	2096.5	1686.5	1316.5	1003.2	759.9	633.3	576.6	553.3	536.6	533.3
15°	2403.1	2126.5	1613.2	1169.9	803.3	613.3	539.9	503.3	480.0	476.6	473.3
17.5°	2486.4	2153.1	1546.5	1019.9	666.6	533.3	483.3	453.3	436.6	433.3	433.3
20°	2583.1	2186.5	1473.2	876.6	569.9	480.0	440.0	416.6	396.6	393.3	393.3
22.5°	2696.4	2233.1	1403.2	749.9	506.6	440.0	406.6	380.0	363.3	360.0	360.0
25°	2849.7	2303.1	1346.5	656.6	463.3	406.6	376.6	353.3	340.0	333.3	333.3
27.5°	3019.7	2399.8	1306.5	599.9	433.3	380.0	350.0	330.0	316.6	310.0	310.0
30°	3209.7	2506.4	1279.9	576.6	416.6	356.6	330.0	310.0	293.3	290.0	290.0
32.5°	3419.7	2629.8	1263.2	579.9	413.3	340.0	310.0	290.0	276.6	270.0	270.0
35°	3653.0	2766.4	1253.2	599.9	420.0	326.6	293.3	273.3	260.0	253.3	253.3
37.5°	3913.0	2926.4	1253.2	619.9	436.6	323.3	276.6	256.6	246.6	240.0	240.0
40°	4156.3	3096.4	1266.5	643.3	453.3	323.3	263.3	246.6	233.3	226.6	226.6
42.5°	4346.3	3193.0	1276.5	666.6	463.3	320.0	250.0	233.3	223.3	216.6	216.6
45°	4562.9	3296.4	1256.5	676.6	463.3	313.3	240.0	223.3	213.3	206.6	206.6
47.5°	4802.9	3423.0	1253.2	683.3	453.3	300.0	230.0	213.3	206.6	200.0	200.0
50°	5046.2	3563.0	1259.9	679.9	440.0	280.0	216.6	206.6	196.6	190.0	190.0
52.5°	5322.8	3709.7	1273.2	673.3	410.0	256.6	206.6	196.6	186.6	180.0	176.7
55°	5629.5	3869.6	1299.9	659.9	370.0	233.3	196.6	186.6	173.3	166.7	163.3
57.5°	5982.8	4066.3	1329.9	633.3	326.6	213.3	186.6	173.3	153.3	143.3	140.0
60°	6319.4	4289.6	1363.2	569.9	283.3	193.3	176.7	156.7	136.7	130.0	126.7
62.5°	6636.0	4509.6	1379.9	456.6	240.0	176.7	166.7	143.3	123.3	116.7	113.3
65°	6839.4	4749.6	1343.2	310.0	196.6	163.3	153.3	133.3	113.3	103.3	103.3
67.5°	6852.7	4862.9	1216.6	203.3	160.0	146.7	140.0	120.0	100.0	93.3	90.0
70°	6516.1	4692.9	929.9	160.0	133.3	126.7	126.7	106.7	86.7	80.0	76.7
72.5°	5742.8	4156.3	593.3	130.0	113.3	106.7	106.7	90.0	76.7	66.7	63.3
75°	4532.9	3206.4	316.6	106.7	93.3	90.0	83.3	73.3	63.3	56.7	53.3
77.5°	2083.1	1413.2	146.7	76.7	70.0	70.0	63.3	53.3	50.0	43.3	43.3
80°	823.3	480.0	73.3	50.0	46.7	46.7	46.7	36.7	36.7	30.0	26.7
82.5°	226.6	100.0	36.7	30.0	30.0	30.0	26.7	23.3	23.3	20.0	20.0
85°	23.3	16.7	16.7	16.7	16.7	13.3	13.3	10.0	6.7	6.7	6.7
87.5°	10.0	10.0	10.0	10.0	10.0	6.7	3.3	0.0	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)