

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: P841722

Luminaire Tested: **ARCH4-220-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841722
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: ARCH4-220-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 870mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29445 lumens
Efficiency: N/A
Efficacy: 132.8 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): 221.8
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

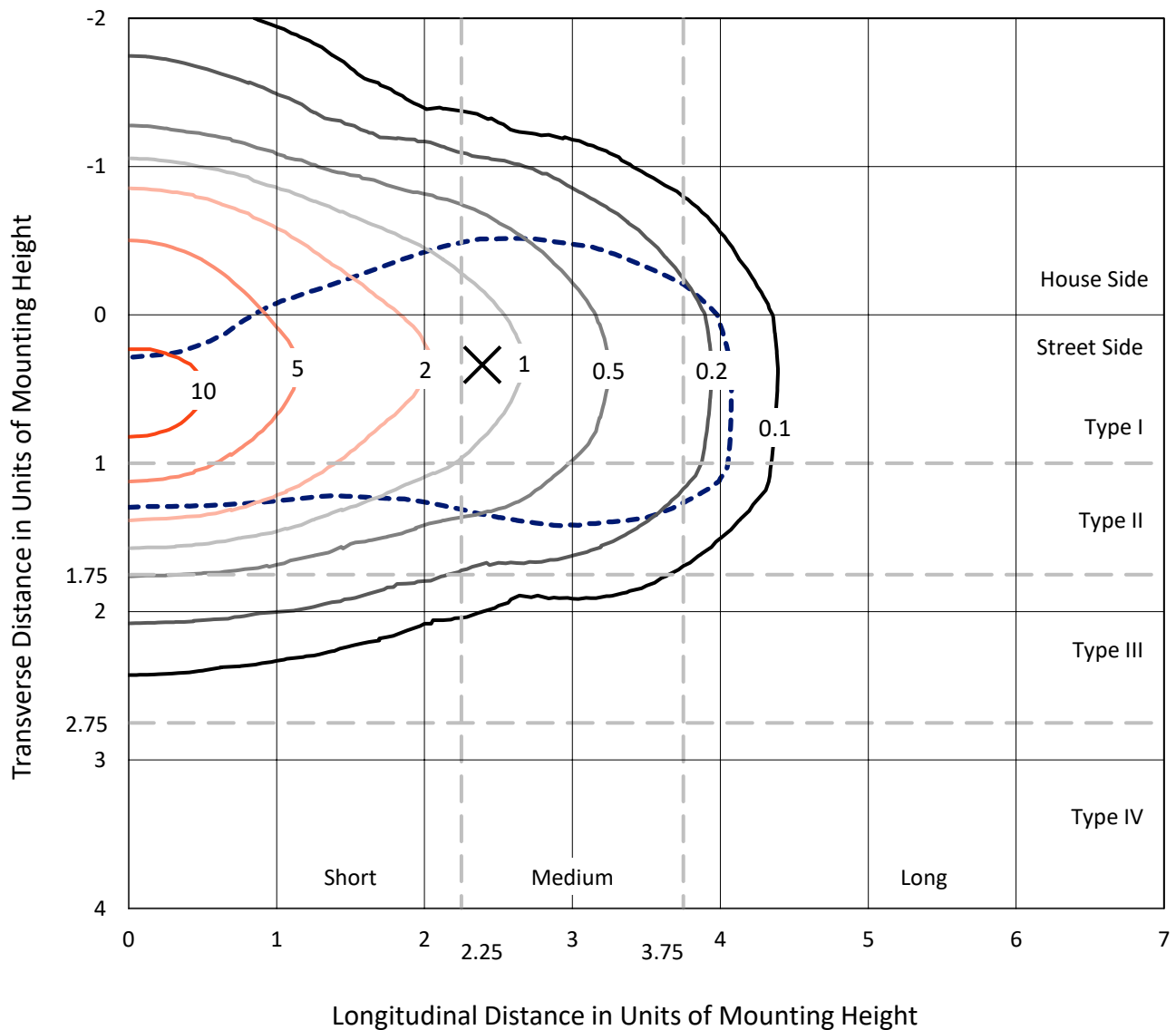


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Iso-Footcandle Lines of Horizontal Illumination

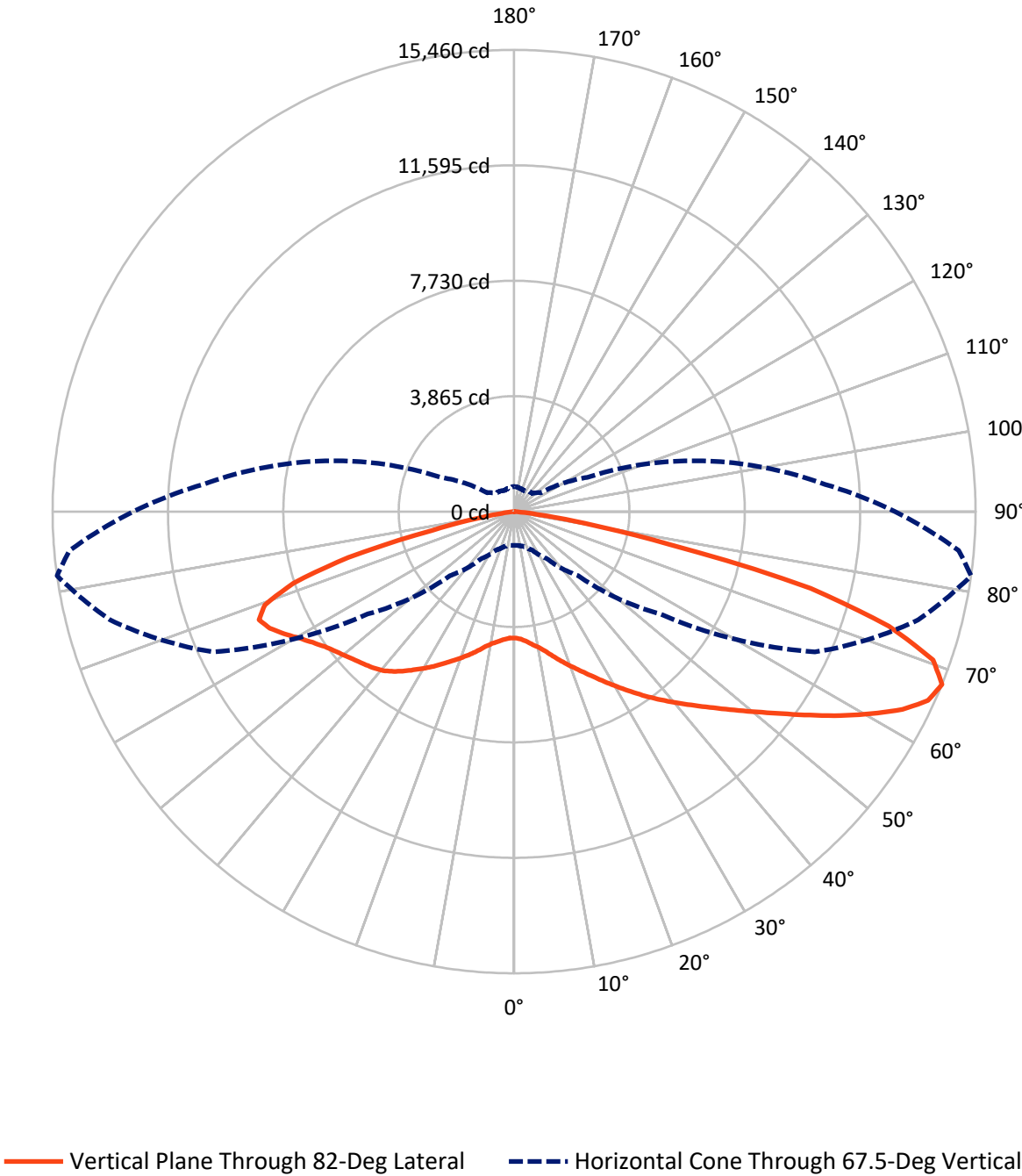
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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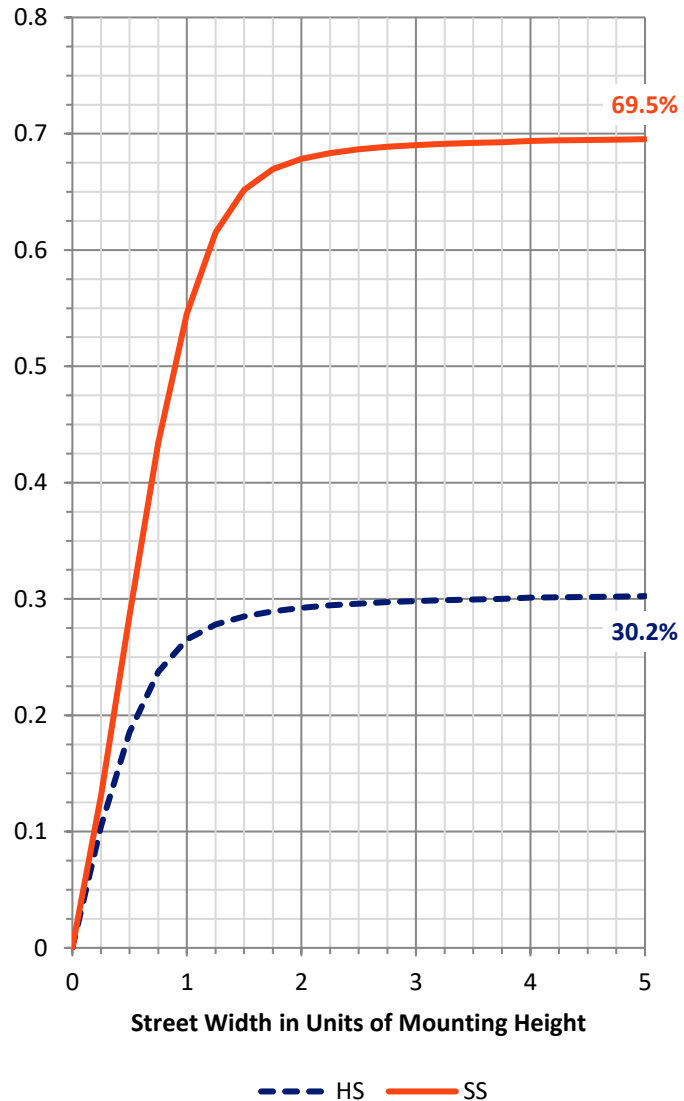
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8967.2	0.0	8967.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	20477.8	0.0	20477.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	29445.0	0.0	29445.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.4	1.5
10°-20°	1575.6	5.4
20°-30°	3166.7	10.8
30°-40°	4974.4	16.9
40°-50°	6059.8	20.6
50°-60°	5725.8	19.4
60°-70°	4728.2	16.1
70°-80°	2574.7	8.7
80°-90°	202.4	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°	29445.0	100.0
0°-180°	29445.0	100.0

Coefficient of Utilization



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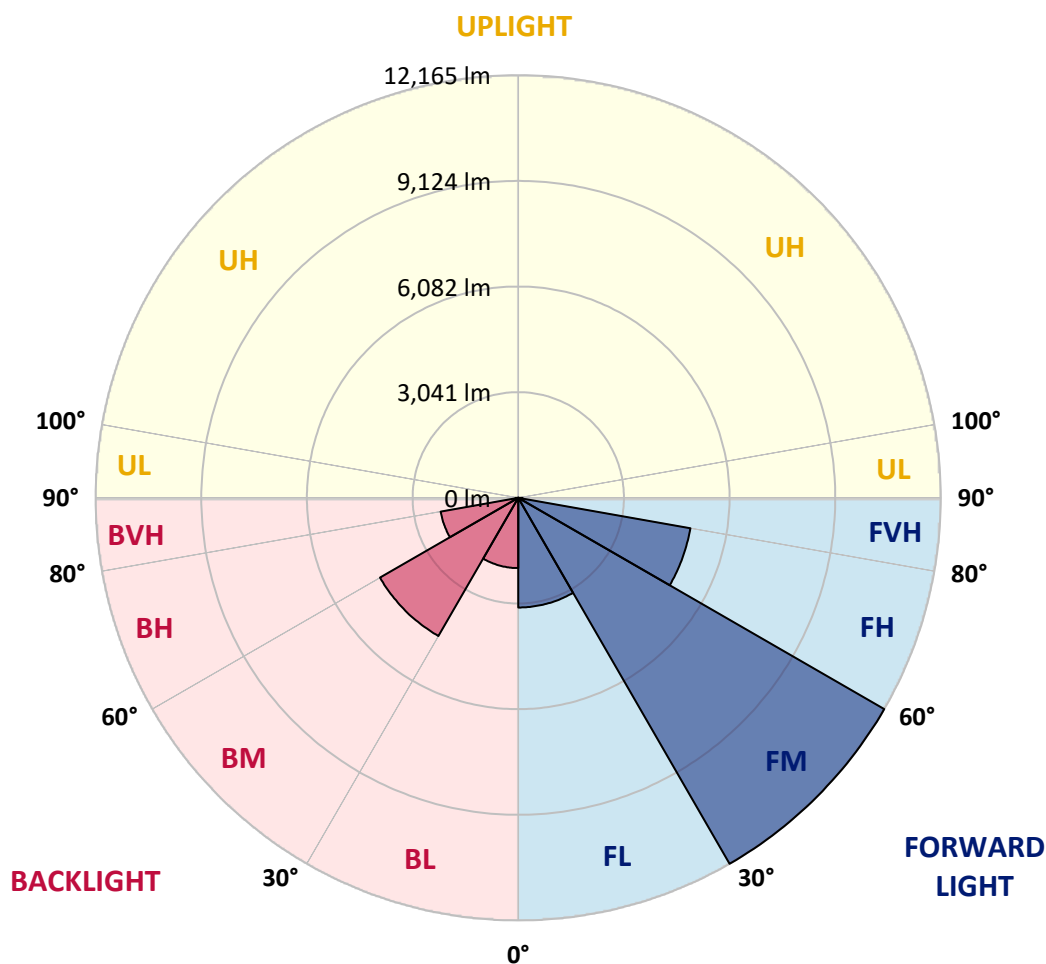
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3157.6	10.7			
FM	(30°-60°)	12165.0	41.3			
FH	(60°-80°)	5033.2	17.1			G3/7500
FVH	(80°-90°)	122.0	0.4			G2/225
BL	(0°-30°)	2022.2	6.9	B3/2500		
BM	(30°-60°)	4595.0	15.6	B3/5000		
BH	(60°-80°)	2269.6	7.7	B3/2500		G3/2500
BVH	(80°-90°)	80.4	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°	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7
2.5°	4425.1	4425.1	4459.3	4459.3	4429.4	4382.3	4369.5	4318.2	4271.2	4271.2	4275.5
5°	4848.4	4844.1	4869.7	4835.5	4762.9	4668.8	4604.7	4493.5	4399.4	4369.5	4365.2
7.5°	5365.7	5361.4	5374.3	5318.7	5181.9	5027.9	4899.7	4720.1	4566.2	4502.1	4485.0
10°	5942.9	5938.6	5925.8	5831.7	5647.9	5408.5	5216.1	4968.1	4737.2	4634.6	4613.2
12.5°	6605.6	6597.0	6567.1	6430.3	6178.0	5870.2	5592.3	5271.6	4963.8	4822.7	4775.7
15°	7345.2	7332.4	7276.8	7110.1	6772.3	6383.3	6024.1	5613.7	5237.4	5053.6	4989.5
17.5°	8123.4	8123.4	8037.9	7789.9	7413.6	6930.5	6485.9	5964.3	5523.9	5297.3	5220.3
20°	8914.3	8910.1	8803.2	8503.9	8059.2	7503.4	6939.1	6366.2	5818.9	5545.3	5451.2
22.5°	9748.0	9739.5	9607.0	9264.9	8734.8	8106.3	7447.8	6763.8	6143.8	5814.6	5694.9
25°	10705.7	10692.9	10530.5	10111.5	9483.0	8773.2	8020.8	7229.8	6515.8	6113.9	5972.8
27.5°	11723.3	11706.2	11513.8	11026.4	10338.1	9483.0	8653.5	7768.5	6926.2	6447.4	6289.2
30°	12629.7	12616.9	12407.4	11907.2	11116.2	10188.4	9256.4	8307.2	7358.1	6802.3	6605.6
32.5°	13313.8	13313.8	13125.7	12634.0	11813.1	10863.9	9863.5	8816.0	7807.0	7182.8	6951.9
35°	13728.5	13741.3	13578.9	13185.5	12411.7	11501.0	10492.0	9414.6	8285.8	7588.9	7341.0
37.5°	13788.4	13831.1	13737.0	13472.0	12826.4	12031.1	11107.6	9991.7	8781.8	7999.4	7721.5
40°	13510.4	13540.4	13544.7	13442.0	12997.4	12411.7	11650.6	10603.1	9307.7	8431.2	8110.5
42.5°	12954.6	12976.0	13014.5	13044.4	12873.4	12578.4	12065.3	11171.8	9867.8	8871.6	8495.3
45°	12236.4	12232.1	12296.2	12424.5	12415.9	12484.3	12296.2	11689.1	10449.2	9371.8	8922.9
47.5°	11163.2	11141.8	11368.4	11659.2	11804.5	12125.2	12300.5	12095.3	11082.0	9923.3	9410.3
50°	9483.0	9461.6	9957.5	10641.6	11069.2	11556.6	12065.3	12339.0	11744.7	10543.3	9940.4
52.5°	7439.3	7417.9	8046.4	9243.5	10175.6	10885.3	11590.8	12394.6	12373.2	11235.9	10539.0
55°	5532.4	5515.3	6126.7	7422.2	8931.4	10107.2	11009.3	12249.2	12963.2	12031.1	11265.8
57.5°	3899.2	3890.7	4420.8	5494.0	7332.4	9158.0	10449.2	11967.0	13506.2	12894.8	12086.7
60°	2736.3	2723.5	3108.3	3937.7	5545.3	7725.8	9893.4	11590.8	13912.3	13745.6	12958.9
62.5°	1842.7	1834.2	2107.8	2800.4	3937.7	5947.2	9051.1	11338.5	14143.2	14600.7	13839.7
65°	1398.1	1393.8	1517.8	1898.3	2787.6	4271.2	7712.9	11308.6	14173.1	15242.0	14587.9
67.5°	1128.7	1133.0	1201.4	1419.5	1928.2	3035.6	5981.4	11120.5	14015.0	15460.1	14951.3
70°	923.5	923.5	953.4	1098.8	1423.7	2047.9	4177.1	10265.4	13574.6	14891.4	14519.5
72.5°	705.5	709.7	803.8	889.3	1073.1	1436.6	2676.4	8495.3	12535.6	13129.9	12847.8
75°	560.1	555.8	611.4	731.1	833.7	1026.1	1641.8	6092.5	10667.3	10261.1	10081.5
77.5°	401.9	397.6	440.4	543.0	632.8	726.8	979.1	3074.1	5801.8	5331.5	5199.0
80°	273.6	265.1	303.6	376.2	419.0	427.5	478.9	1180.0	2531.1	2385.7	2355.8
82.5°	141.1	141.1	162.5	213.8	218.0	222.3	213.8	380.5	838.0	782.4	748.2
85°	55.6	55.6	59.9	72.7	72.7	77.0	77.0	98.3	89.8	85.5	81.2
87.5°	4.3	4.3	8.6	8.6	12.8	12.8	12.8	17.1	21.4	21.4	21.4
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°	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7
2.5°	4266.9	4249.8	4194.2	4181.4	4172.8	4160.0	4164.3	4134.4	4121.5	4125.8	4108.7
5°	4343.9	4313.9	4245.5	4215.6	4207.1	4194.2	4207.1	4185.7	4164.3	4172.8	4164.3
7.5°	4450.8	4408.0	4322.5	4292.6	4288.3	4275.5	4292.6	4275.5	4258.4	4266.9	4249.8
10°	4561.9	4506.3	4412.3	4382.3	4382.3	4378.1	4395.2	4369.5	4352.4	4356.7	4348.1
12.5°	4724.4	4651.7	4549.1	4523.4	4510.6	4523.4	4527.7	4493.5	4463.6	4467.9	4455.0
15°	4921.1	4839.8	4728.7	4690.2	4681.6	4677.4	4660.2	4617.5	4579.0	4574.7	4561.9
17.5°	5134.8	5032.2	4899.7	4861.2	4822.7	4809.9	4767.1	4711.6	4651.7	4651.7	4634.6
20°	5340.0	5224.6	5066.4	5010.8	4955.3	4904.0	4831.3	4741.5	4664.5	4651.7	4634.6
22.5°	5562.4	5425.6	5241.7	5160.5	5062.1	4959.5	4835.5	4715.8	4617.5	4596.1	4583.3
25°	5810.3	5639.3	5421.3	5301.6	5143.4	4985.2	4801.3	4647.4	4532.0	4497.8	4489.2
27.5°	6084.0	5878.8	5613.7	5438.4	5207.5	4959.5	4724.4	4540.5	4399.4	4356.7	4343.9
30°	6361.9	6118.2	5789.0	5532.4	5207.5	4878.3	4583.3	4369.5	4207.1	4147.2	4138.6
32.5°	6639.8	6366.2	5947.2	5583.7	5156.2	4741.5	4399.4	4147.2	3963.3	3890.7	3907.8
35°	6973.3	6639.8	6092.5	5605.1	5070.7	4574.7	4189.9	3894.9	3706.8	3642.7	3655.5
37.5°	7319.6	6913.4	6208.0	5588.0	4951.0	4386.6	3954.8	3668.3	3433.2	3322.0	3334.9
40°	7618.9	7161.4	6289.2	5528.2	4797.1	4172.8	3723.9	3347.7	3022.7	2915.9	2903.0
42.5°	7901.0	7345.2	6332.0	5438.4	4621.8	3924.9	3394.7	2911.6	2586.7	2454.1	2458.4
45°	8196.1	7524.8	6314.9	5318.7	4403.7	3634.1	2971.4	2484.0	2197.6	2077.9	2082.1
47.5°	8533.8	7717.2	6297.7	5190.4	4138.6	3257.9	2565.3	2107.8	1859.8	1774.3	1765.8
50°	8893.0	7931.0	6276.4	5032.2	3843.6	2838.9	2163.4	1757.2	1547.7	1492.1	1479.3
52.5°	9299.1	8161.8	6263.5	4844.1	3488.8	2394.3	1804.2	1449.4	1308.3	1269.8	1265.5
55°	9786.5	8431.2	6280.6	4617.5	3061.2	1975.3	1500.7	1248.4	1154.4	1133.0	1128.7
57.5°	10380.8	8777.5	6332.0	4352.4	2612.3	1611.8	1278.4	1124.4	1064.6	1047.5	1047.5
60°	11026.4	9170.9	6426.0	4053.1	2163.4	1329.7	1133.0	1026.1	1000.5	1021.8	1021.8
62.5°	11723.3	9632.6	6592.8	3689.7	1744.4	1124.4	1017.6	944.9	927.8	970.5	974.8
65°	12368.9	10081.5	6699.6	3253.6	1385.2	974.8	927.8	863.6	872.2	914.9	910.7
67.5°	12766.5	10453.5	6550.0	2706.4	1098.8	863.6	833.7	778.1	799.5	833.7	838.0
70°	12522.8	10244.0	5810.3	2043.7	859.4	752.5	731.1	696.9	714.0	756.8	773.9
72.5°	11330.0	9175.1	4519.2	1381.0	692.6	632.8	641.3	624.2	645.6	684.1	722.6
75°	9196.5	6934.8	3031.3	885.0	547.3	538.7	551.5	538.7	547.3	585.7	607.1
77.5°	4801.3	3381.9	1509.2	551.5	406.2	419.0	440.4	444.6	470.3	478.9	487.4
80°	2240.3	1522.1	628.5	307.8	269.4	295.0	337.8	342.0	350.6	363.4	367.7
82.5°	731.1	457.5	290.7	166.7	153.9	166.7	218.0	260.8	265.1	290.7	290.7
85°	77.0	47.0	64.1	68.4	59.9	72.7	98.3	94.1	42.8	25.7	25.7
87.5°	21.4	17.1	21.4	21.4	17.1	17.1	12.8	4.3	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)