

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: P841361

Luminaire Tested: **ARCH4-170-722-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841361
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: ARCH4-170-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1380mA 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: 16592 lumens
Efficiency: N/A
Efficacy: 97.7 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

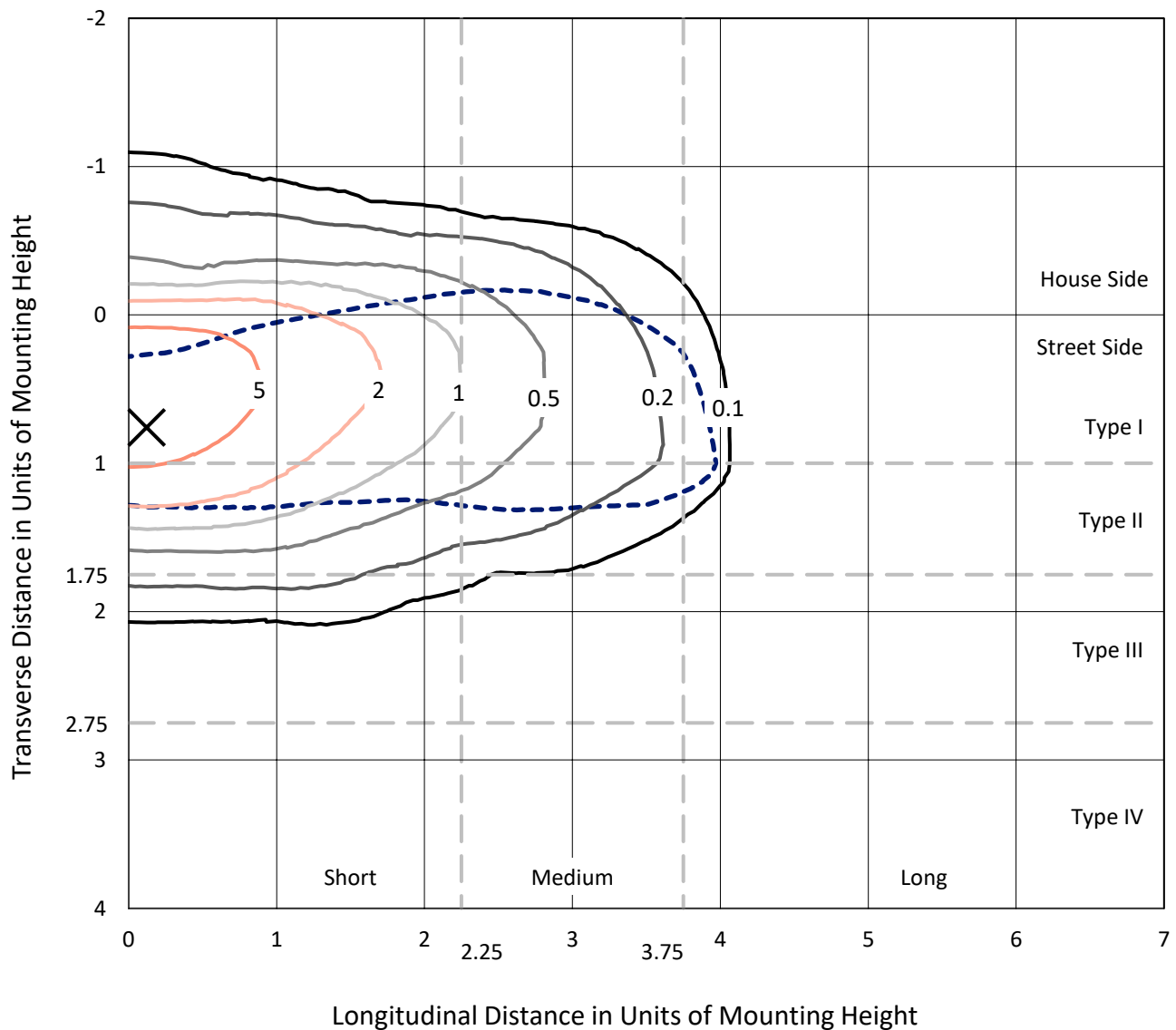
Input Watts (W): 169.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

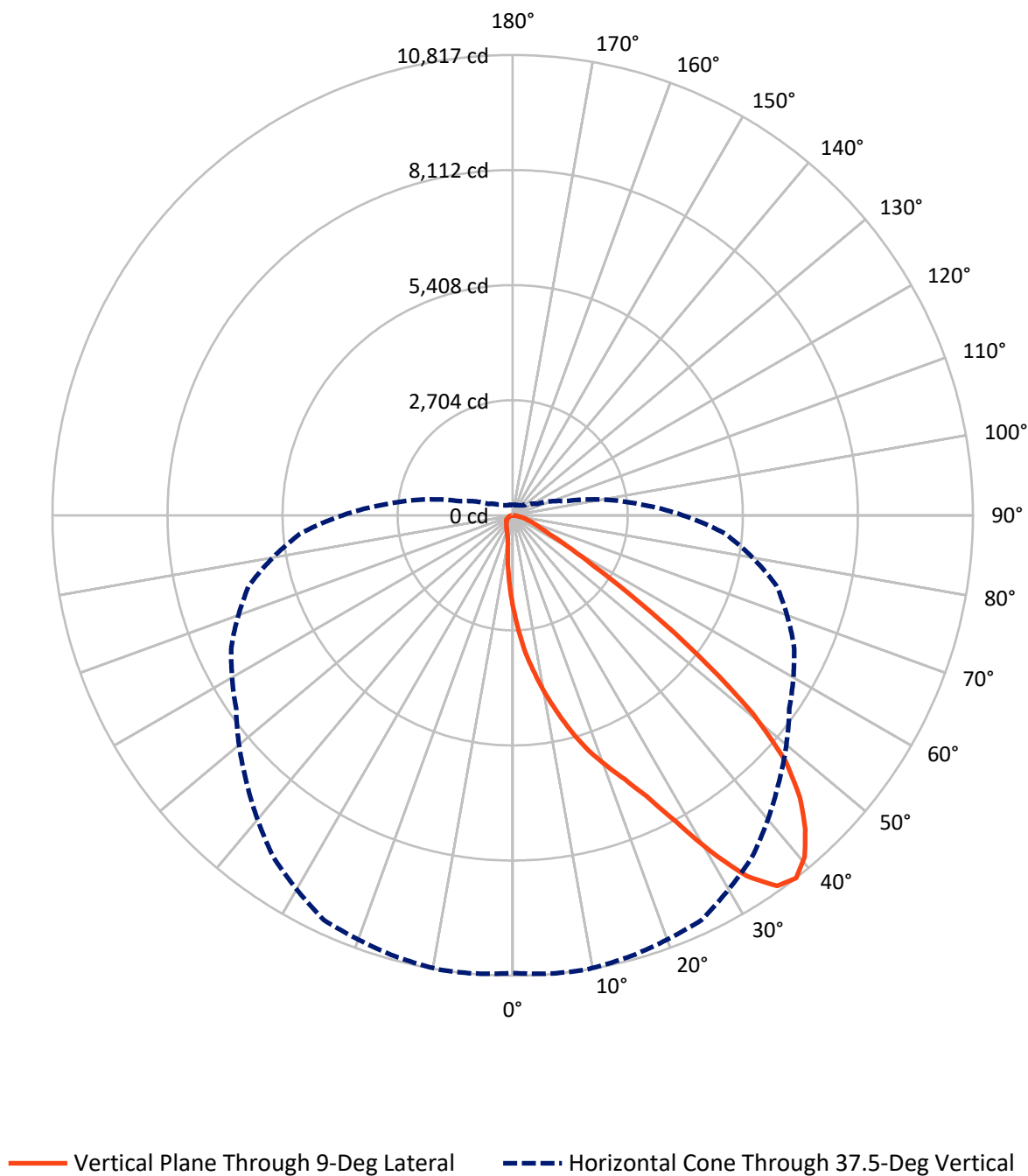
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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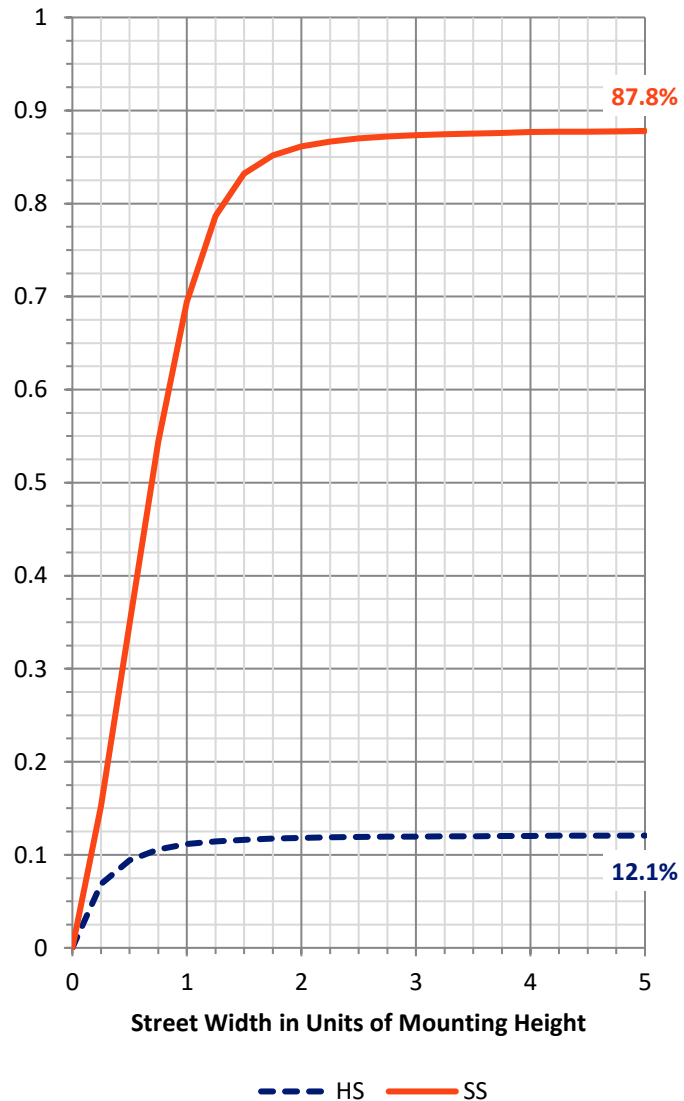
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2017.9	0.0	2017.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	14574.1	0.0	14574.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	16592.0	0.0	16592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.5	1.3
10°-20°	766.2	4.6
20°-30°	1574.4	9.5
30°-40°	2782.9	16.8
40°-50°	3696.9	22.3
50°-60°	3506.3	21.1
60°-70°	2675.0	16.1
70°-80°	1296.8	7.8
80°-90°	73.0	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°	16592.0	100.0
0°-180°	16592.0	100.0

Coefficient of Utilization



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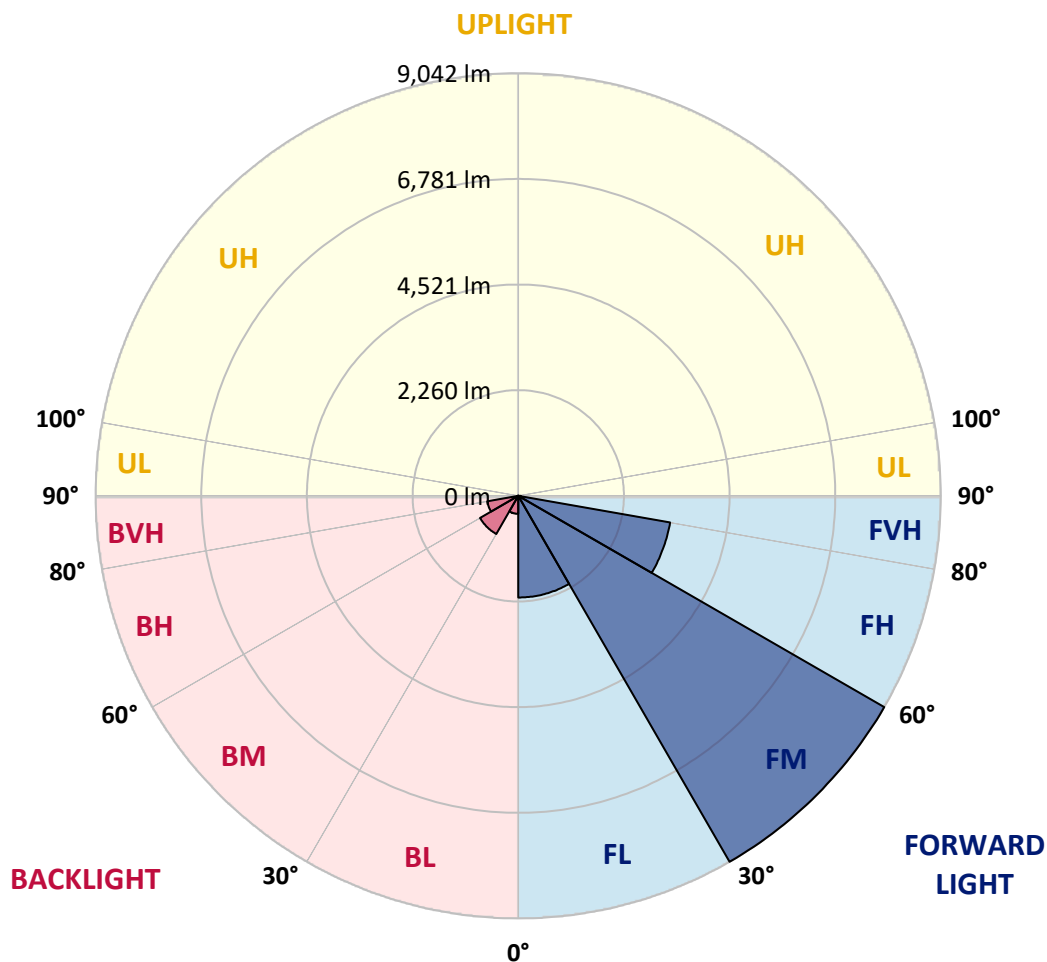
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2176.0	13.1			
FM	(30°-60°)	9041.8	54.5			
FH	(60°-80°)	3298.4	19.9			G2/5000
FVH	(80°-90°)	57.8	0.3			G1/100
BL	(0°-30°)	385.1	2.3	B1/500		
BM	(30°-60°)	944.2	5.7	B1/1000		
BH	(60°-80°)	673.4	4.1	B2/1000		G2/1000
BVH	(80°-90°)	15.2	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°	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3
2.5°	2717.7	2670.1	2724.5	2717.7	2670.1	2639.4	2544.0	2513.4	2401.0	2319.3	2247.8
5°	3276.3	3228.6	3276.3	3262.6	3194.5	3119.6	2962.9	2860.8	2659.8	2482.7	2322.7
7.5°	3739.4	3739.4	3759.9	3763.3	3681.5	3565.8	3371.6	3218.4	2935.7	2663.2	2407.8
10°	4240.1	4243.5	4287.8	4257.1	4148.1	3991.5	3746.3	3552.1	3211.6	2854.0	2489.6
12.5°	4774.8	4778.2	4791.8	4778.2	4648.8	4447.8	4151.5	3896.1	3504.5	3071.9	2601.9
15°	5309.5	5312.9	5329.9	5306.1	5163.0	4928.0	4590.9	4277.5	3814.4	3317.1	2738.2
17.5°	5810.1	5816.9	5830.5	5799.9	5650.0	5370.8	5026.8	4648.8	4144.7	3579.4	2891.4
20°	6259.7	6266.5	6276.7	6235.8	6086.0	5806.7	5435.5	5040.4	4481.9	3848.4	3058.3
22.5°	6712.6	6719.4	6736.4	6682.0	6515.1	6194.9	5830.5	5421.9	4839.5	4144.7	3252.4
25°	7291.6	7298.4	7312.0	7233.7	7005.5	6630.9	6246.0	5827.1	5227.7	4478.5	3490.8
27.5°	8139.6	8132.8	8132.8	7989.7	7598.1	7111.1	6664.9	6239.2	5646.6	4836.1	3753.1
30°	9188.5	9171.5	9161.3	8967.2	8408.6	7652.6	7094.0	6624.1	6048.5	5214.1	4035.7
32.5°	10128.5	10128.5	10108.1	9903.7	9311.1	8381.4	7550.4	6998.7	6436.7	5595.5	4328.6
35°	10683.6	10707.5	10697.3	10544.0	10111.5	9164.7	8166.8	7448.2	6845.4	5994.0	4679.4
37.5°	10758.6	10806.2	10816.5	10724.5	10496.3	9805.0	8851.4	7935.2	7295.0	6423.1	5020.0
40°	10455.5	10557.6	10557.6	10544.0	10462.3	10108.1	9426.9	8500.6	7758.2	6869.3	5364.0
42.5°	9988.9	10094.5	10080.8	10131.9	10111.5	10036.6	9750.5	9028.5	8221.3	7329.0	5677.3
45°	9379.3	9488.2	9461.0	9552.9	9593.8	9675.6	9716.4	9396.3	8677.7	7829.7	6028.1
47.5°	8401.8	8585.7	8626.6	8790.1	8960.4	9215.8	9409.9	9529.1	9103.4	8367.8	6409.5
50°	6957.8	7216.6	7298.4	7642.4	8108.9	8636.8	8950.1	9365.6	9403.1	8919.5	6821.6
52.5°	4982.5	5282.2	5408.2	5973.6	6934.0	7853.5	8418.9	9004.6	9518.9	9447.4	7267.7
55°	3221.8	3477.2	3599.8	4131.1	5408.2	6852.2	7792.2	8538.1	9454.2	9931.0	7778.6
57.5°	1985.5	2132.0	2213.7	2670.1	3845.0	5568.3	6971.4	8108.9	9256.7	10349.9	8309.9
60°	1338.4	1423.6	1464.4	1679.0	2612.2	4161.7	5844.2	7659.4	8997.8	10632.6	8793.5
62.5°	888.9	916.1	957.0	1089.8	1723.3	2922.1	4488.7	6855.6	8803.7	10649.6	9151.1
65°	687.9	701.6	718.6	776.5	1062.6	2043.4	3157.1	5554.7	8514.2	10288.6	9263.5
67.5°	541.5	555.1	575.6	606.2	769.7	1386.1	2149.0	4069.8	7921.6	9723.2	9079.6
70°	425.7	435.9	449.6	476.8	599.4	1004.7	1420.2	2704.1	6726.2	9185.1	8500.6
72.5°	337.2	347.4	361.0	388.2	487.0	735.6	974.0	1685.8	5186.9	8527.8	7386.9
75°	265.6	272.5	282.7	309.9	391.7	572.2	660.7	1008.1	3524.9	7325.6	5755.6
77.5°	132.8	163.5	187.3	214.6	286.1	395.1	439.3	558.5	1488.3	3759.9	2745.0
80°	78.3	95.4	102.2	119.2	187.3	238.4	238.4	224.8	470.0	1444.0	1120.5
82.5°	44.3	61.3	64.7	68.1	112.4	136.2	109.0	81.7	95.4	483.6	326.9
85°	13.6	20.4	23.8	27.2	37.5	40.9	37.5	34.1	27.2	47.7	30.7
87.5°	0.0	0.0	0.0	0.0	3.4	6.8	6.8	6.8	10.2	10.2	10.2
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°	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3
2.5°	2206.9	2162.6	2077.5	1999.1	1924.2	1869.7	1818.6	1771.0	1736.9	1709.7	1706.2
5°	2237.5	2149.0	1985.5	1832.3	1692.6	1576.8	1478.1	1399.7	1341.8	1301.0	1297.6
7.5°	2278.4	2142.2	1893.6	1665.4	1457.6	1290.8	1147.7	1042.1	967.2	936.6	912.7
10°	2312.5	2135.4	1801.6	1498.5	1226.0	1014.9	844.6	739.0	684.5	664.1	653.9
12.5°	2370.4	2142.2	1723.3	1345.2	1025.1	776.5	647.1	589.2	565.3	548.3	544.9
15°	2455.5	2172.8	1648.4	1195.4	820.8	626.6	551.7	514.3	490.4	487.0	483.6
17.5°	2540.6	2200.1	1580.2	1042.1	681.1	544.9	493.8	463.2	446.1	442.7	442.7
20°	2639.4	2234.1	1505.3	895.7	582.4	490.4	449.6	425.7	405.3	401.9	401.9
22.5°	2755.2	2281.8	1433.8	766.3	517.7	449.6	415.5	388.2	371.2	367.8	367.8
25°	2911.9	2353.3	1375.9	670.9	473.4	415.5	384.8	361.0	347.4	340.6	340.6
27.5°	3085.6	2452.1	1335.0	613.0	442.7	388.2	357.6	337.2	323.5	316.7	316.7
30°	3279.7	2561.1	1307.8	589.2	425.7	364.4	337.2	316.7	299.7	296.3	296.3
32.5°	3494.2	2687.1	1290.8	592.6	422.3	347.4	316.7	296.3	282.7	275.9	275.9
35°	3732.6	2826.7	1280.5	613.0	429.1	333.8	299.7	279.3	265.6	258.8	258.8
37.5°	3998.3	2990.2	1280.5	633.5	446.1	330.4	282.7	262.2	252.0	245.2	245.2
40°	4246.9	3163.9	1294.2	657.3	463.2	330.4	269.0	252.0	238.4	231.6	231.6
42.5°	4441.0	3262.6	1304.4	681.1	473.4	326.9	255.4	238.4	228.2	221.4	221.4
45°	4662.4	3368.2	1283.9	691.4	473.4	320.1	245.2	228.2	218.0	211.2	211.2
47.5°	4907.6	3497.6	1280.5	698.2	463.2	306.5	235.0	218.0	211.2	204.3	204.3
50°	5156.2	3640.7	1287.3	694.8	449.6	286.1	221.4	211.2	200.9	194.1	194.1
52.5°	5438.9	3790.5	1301.0	687.9	418.9	262.2	211.2	200.9	190.7	183.9	180.5
55°	5752.2	3954.0	1328.2	674.3	378.0	238.4	200.9	190.7	177.1	170.3	166.9
57.5°	6113.2	4154.9	1358.9	647.1	333.8	218.0	190.7	177.1	156.7	146.4	143.0
60°	6457.2	4383.1	1392.9	582.4	289.5	197.5	180.5	160.1	139.6	132.8	129.4
62.5°	6780.7	4607.9	1410.0	466.6	245.2	180.5	170.3	146.4	126.0	119.2	115.8
65°	6988.5	4853.1	1372.5	316.7	200.9	166.9	156.7	136.2	115.8	105.6	105.6
67.5°	7002.1	4968.9	1243.1	207.7	163.5	149.9	143.0	122.6	102.2	95.4	92.0
70°	6658.1	4795.2	950.2	163.5	136.2	129.4	129.4	109.0	88.5	81.7	78.3
72.5°	5868.0	4246.9	606.2	132.8	115.8	109.0	109.0	92.0	78.3	68.1	64.7
75°	4631.7	3276.3	323.5	109.0	95.4	92.0	85.1	74.9	64.7	57.9	54.5
77.5°	2128.6	1444.0	149.9	78.3	71.5	71.5	64.7	54.5	51.1	44.3	44.3
80°	841.2	490.4	74.9	51.1	47.7	47.7	47.7	37.5	37.5	30.7	27.2
82.5°	231.6	102.2	37.5	30.7	30.7	30.7	27.2	23.8	23.8	20.4	20.4
85°	23.8	17.0	17.0	17.0	17.0	13.6	13.6	10.2	6.8	6.8	6.8
87.5°	10.2	10.2	10.2	10.2	10.2	6.8	3.4	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)