

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: P841019

Luminaire Tested: **ARCH4-120-730-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841019
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: ARCH4-120-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1000mA 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: 14272 lumens
Efficiency: N/A
Efficacy: 117.0 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

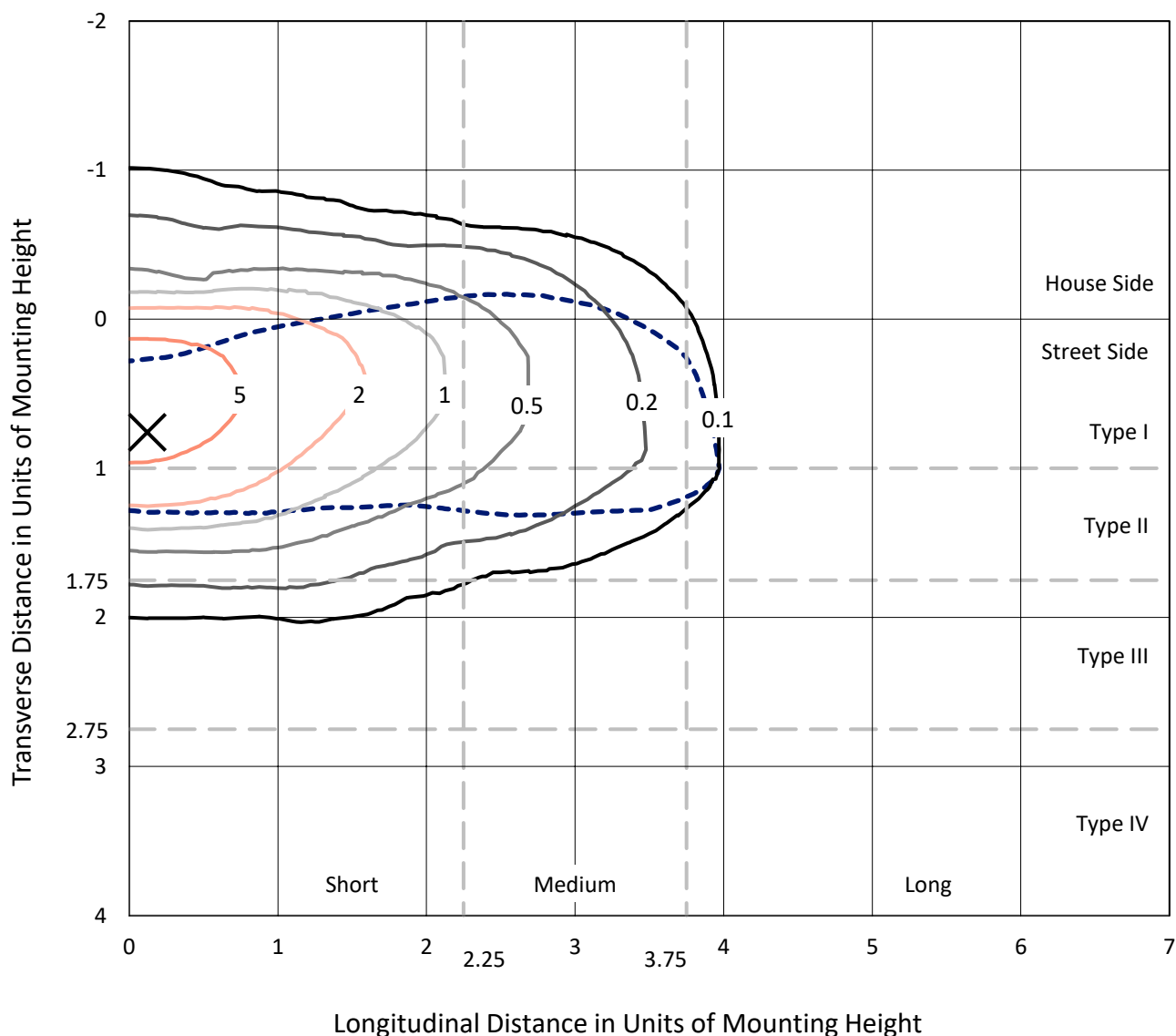
Input Watts (W): 122
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

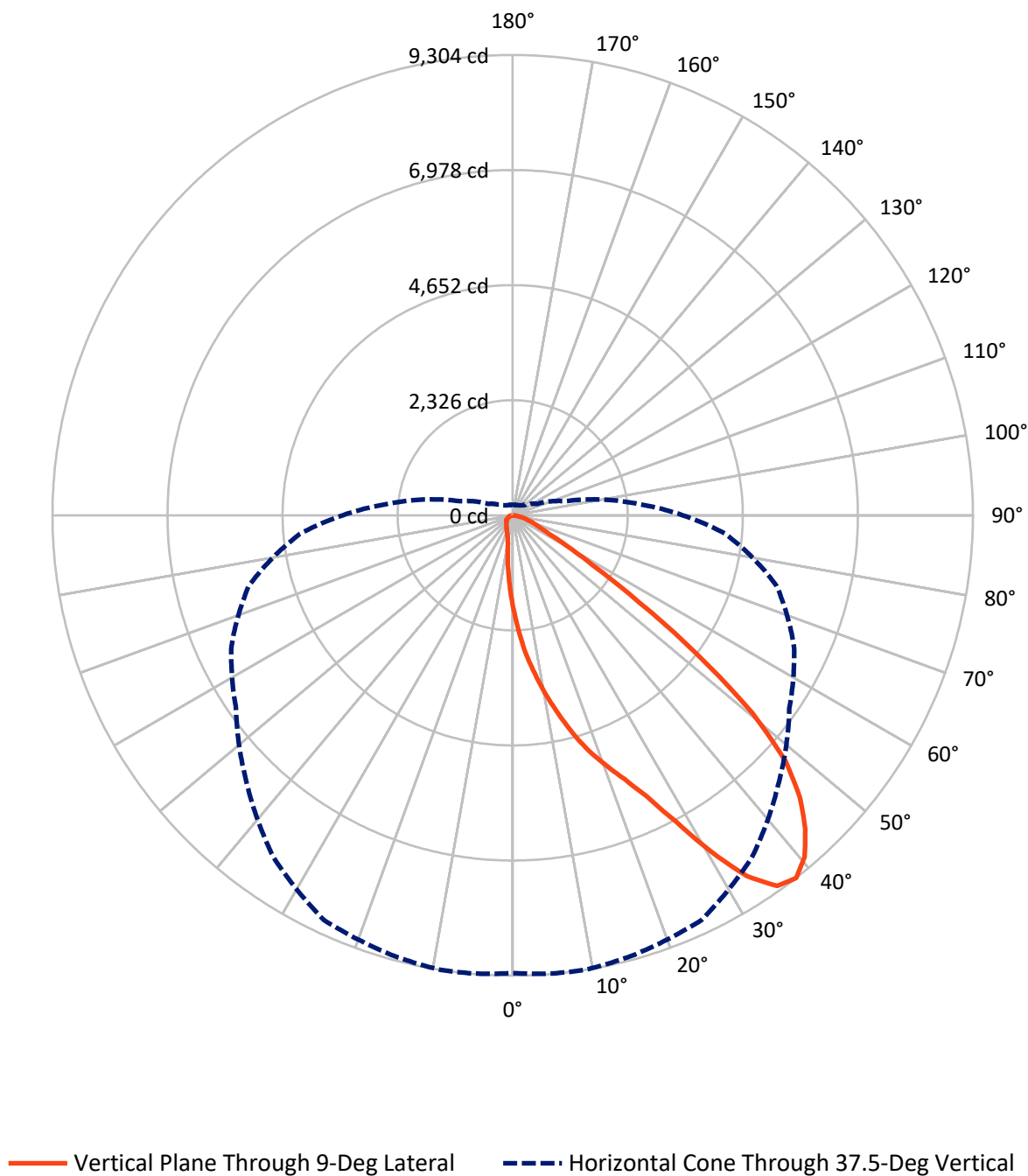
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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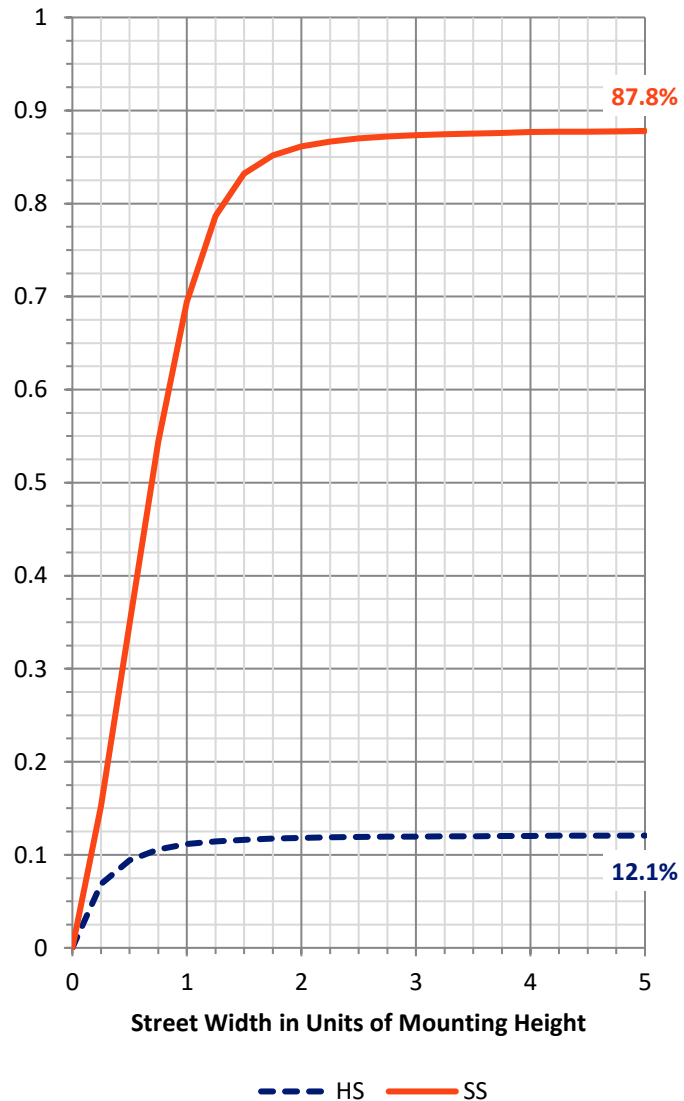
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1735.7	0.0	1735.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	12536.3	0.0	12536.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	14272.0	0.0	14272.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	1.3
10°-20°	659.1	4.6
20°-30°	1354.3	9.5
30°-40°	2393.8	16.8
40°-50°	3180.0	22.3
50°-60°	3016.0	21.1
60°-70°	2300.9	16.1
70°-80°	1115.5	7.8
80°-90°	62.8	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°	14272.0	100.0
0°-180°	14272.0	100.0

Coefficient of Utilization



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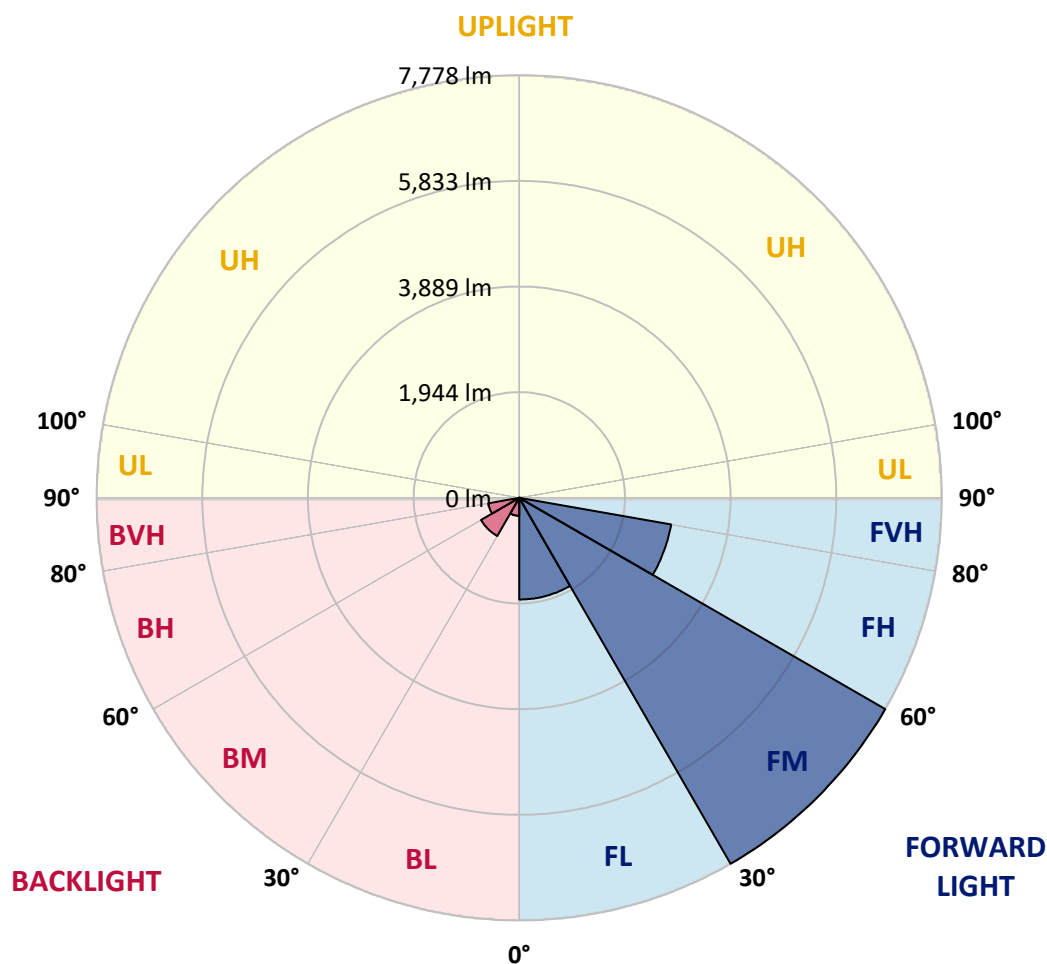
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1871.8	13.1			
FM	(30°-60°)	7777.6	54.5			
FH	(60°-80°)	2837.2	19.9			G2/5000
FVH	(80°-90°)	49.7	0.3			G1/100
BL	(0°-30°)	331.2	2.3	B1/500		
BM	(30°-60°)	812.2	5.7	B1/1000		
BH	(60°-80°)	579.2	4.1	B2/1000		G2/1000
BVH	(80°-90°)	13.1	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°	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6
2.5°	2337.7	2296.7	2343.6	2337.7	2296.7	2270.3	2188.3	2162.0	2065.3	1995.0	1933.5
5°	2818.2	2777.1	2818.2	2806.4	2747.9	2683.4	2548.6	2460.8	2287.9	2135.6	1997.9
7.5°	3216.6	3216.6	3234.1	3237.1	3166.8	3067.2	2900.2	2768.4	2525.2	2290.9	2071.1
10°	3647.2	3650.1	3688.2	3661.9	3568.1	3433.4	3222.4	3055.4	2762.5	2454.9	2141.5
12.5°	4107.1	4110.1	4121.8	4110.1	3998.7	3825.9	3571.0	3351.3	3014.4	2642.4	2238.1
15°	4567.1	4570.0	4584.6	4564.1	4441.1	4239.0	3948.9	3679.4	3281.0	2853.3	2355.3
17.5°	4997.7	5003.6	5015.3	4988.9	4860.0	4619.8	4323.9	3998.7	3565.2	3078.9	2487.1
20°	5384.4	5390.2	5399.0	5363.9	5235.0	4994.8	4675.5	4335.6	3855.2	3310.3	2630.7
22.5°	5774.0	5779.9	5794.5	5747.6	5604.1	5328.7	5015.3	4663.7	4162.8	3565.2	2797.7
25°	6272.0	6277.9	6289.6	6222.2	6025.9	5703.7	5372.7	5012.3	4496.8	3852.3	3002.7
27.5°	7001.5	6995.6	6995.6	6872.6	6535.7	6116.8	5733.0	5366.8	4857.1	4159.9	3228.3
30°	7903.7	7889.1	7880.3	7713.3	7232.9	6582.5	6102.1	5697.8	5202.8	4485.0	3471.4
32.5°	8712.3	8712.3	8694.7	8518.9	8009.2	7209.5	6494.7	6020.1	5536.7	4813.1	3723.4
35°	9189.8	9210.3	9201.5	9069.7	8697.6	7883.2	7024.9	6406.8	5888.3	5155.9	4025.1
37.5°	9254.2	9295.2	9304.0	9224.9	9028.7	8434.0	7613.7	6825.7	6274.9	5525.0	4318.1
40°	8993.5	9081.4	9081.4	9069.7	8999.4	8694.7	8108.8	7312.0	6673.4	5908.8	4613.9
42.5°	8592.2	8683.0	8671.3	8715.2	8697.6	8633.2	8387.1	7766.1	7071.8	6304.2	4883.4
45°	8067.8	8161.5	8138.1	8217.2	8252.3	8322.7	8357.8	8082.4	7464.3	6734.9	5185.2
47.5°	7227.0	7385.2	7420.4	7561.0	7707.5	7927.2	8094.2	8196.7	7830.5	7197.7	5513.3
50°	5984.9	6207.6	6277.9	6573.8	6975.1	7429.2	7698.7	8056.1	8088.3	7672.3	5867.8
52.5°	4285.8	4543.6	4652.0	5138.3	5964.4	6755.4	7241.7	7745.5	8187.9	8126.4	6251.5
55°	2771.3	2991.0	3096.5	3553.5	4652.0	5894.1	6702.7	7344.2	8132.2	8542.4	6690.9
57.5°	1707.9	1833.9	1904.2	2296.7	3307.4	4789.7	5996.6	6975.1	7962.3	8902.7	7147.9
60°	1151.3	1224.5	1259.7	1444.2	2246.9	3579.8	5027.0	6588.4	7739.7	9145.8	7563.9
62.5°	764.6	788.0	823.2	937.4	1482.3	2513.5	3861.1	5897.0	7572.7	9160.5	7871.5
65°	591.8	603.5	618.1	667.9	914.0	1757.7	2715.6	4778.0	7323.7	8850.0	7968.2
67.5°	465.8	477.5	495.1	521.4	662.1	1192.3	1848.5	3500.7	6814.0	8363.7	7810.0
70°	366.2	375.0	386.7	410.1	515.6	864.2	1221.6	2326.0	5785.7	7900.8	7312.0
72.5°	290.0	298.8	310.5	334.0	418.9	632.8	837.8	1450.1	4461.6	7335.4	6354.0
75°	228.5	234.4	243.1	266.6	336.9	492.2	568.3	867.1	3032.0	6301.3	4950.8
77.5°	114.2	140.6	161.1	184.6	246.1	339.8	377.9	480.4	1280.2	3234.1	2361.2
80°	67.4	82.0	87.9	102.5	161.1	205.1	205.1	193.3	404.3	1242.1	963.8
82.5°	38.1	52.7	55.7	58.6	96.7	117.2	93.7	70.3	82.0	416.0	281.2
85°	11.7	17.6	20.5	23.4	32.2	35.2	32.2	29.3	23.4	41.0	26.4
87.5°	0.0	0.0	0.0	0.0	2.9	5.9	5.9	5.9	8.8	8.8	8.8
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°	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6
2.5°	1898.3	1860.2	1787.0	1719.6	1655.2	1608.3	1564.3	1523.3	1494.0	1470.6	1467.7
5°	1924.7	1848.5	1707.9	1576.1	1456.0	1356.3	1271.4	1204.0	1154.2	1119.1	1116.1
7.5°	1959.8	1842.6	1628.8	1432.5	1253.8	1110.3	987.2	896.4	832.0	805.6	785.1
10°	1989.1	1836.8	1549.7	1289.0	1054.6	873.0	726.5	635.7	588.8	571.2	562.5
12.5°	2038.9	1842.6	1482.3	1157.1	881.8	667.9	556.6	506.8	486.3	471.6	468.7
15°	2112.2	1869.0	1417.9	1028.2	706.0	539.0	474.6	442.4	421.8	418.9	416.0
17.5°	2185.4	1892.4	1359.3	896.4	585.9	468.7	424.8	398.4	383.8	380.8	380.8
20°	2270.3	1921.7	1294.8	770.5	500.9	421.8	386.7	366.2	348.6	345.7	345.7
22.5°	2370.0	1962.8	1233.3	659.1	445.3	386.7	357.4	334.0	319.3	316.4	316.4
25°	2504.7	2024.3	1183.5	577.1	407.2	357.4	331.0	310.5	298.8	292.9	292.9
27.5°	2654.1	2109.2	1148.4	527.3	380.8	334.0	307.6	290.0	278.3	272.4	272.4
30°	2821.1	2203.0	1124.9	506.8	366.2	313.5	290.0	272.4	257.8	254.9	254.9
32.5°	3005.6	2311.4	1110.3	509.7	363.3	298.8	272.4	254.9	243.1	237.3	237.3
35°	3210.7	2431.5	1101.5	527.3	369.1	287.1	257.8	240.2	228.5	222.6	222.6
37.5°	3439.2	2572.1	1101.5	544.9	383.8	284.2	243.1	225.6	216.8	210.9	210.9
40°	3653.1	2721.5	1113.2	565.4	398.4	284.2	231.4	216.8	205.1	199.2	199.2
42.5°	3820.0	2806.4	1122.0	585.9	407.2	281.2	219.7	205.1	196.3	190.4	190.4
45°	4010.5	2897.3	1104.4	594.7	407.2	275.4	210.9	196.3	187.5	181.6	181.6
47.5°	4221.4	3008.6	1101.5	600.5	398.4	263.7	202.1	187.5	181.6	175.8	175.8
50°	4435.2	3131.6	1107.3	597.6	386.7	246.1	190.4	181.6	172.8	167.0	167.0
52.5°	4678.4	3260.5	1119.1	591.8	360.3	225.6	181.6	172.8	164.1	158.2	155.3
55°	4947.9	3401.1	1142.5	580.0	325.2	205.1	172.8	164.1	152.3	146.5	143.5
57.5°	5258.4	3574.0	1168.9	556.6	287.1	187.5	164.1	152.3	134.8	126.0	123.0
60°	5554.3	3770.2	1198.2	500.9	249.0	169.9	155.3	137.7	120.1	114.2	111.3
62.5°	5832.6	3963.6	1212.8	401.3	210.9	155.3	146.5	126.0	108.4	102.5	99.6
65°	6011.3	4174.5	1180.6	272.4	172.8	143.5	134.8	117.2	99.6	90.8	90.8
67.5°	6023.0	4274.1	1069.3	178.7	140.6	128.9	123.0	105.5	87.9	82.0	79.1
70°	5727.1	4124.7	817.3	140.6	117.2	111.3	111.3	93.7	76.2	70.3	67.4
72.5°	5047.5	3653.1	521.4	114.2	99.6	93.7	93.7	79.1	67.4	58.6	55.7
75°	3984.1	2818.2	278.3	93.7	82.0	79.1	73.2	64.4	55.7	49.8	46.9
77.5°	1830.9	1242.1	128.9	67.4	61.5	61.5	55.7	46.9	43.9	38.1	38.1
80°	723.6	421.8	64.4	43.9	41.0	41.0	41.0	32.2	32.2	26.4	23.4
82.5°	199.2	87.9	32.2	26.4	26.4	26.4	23.4	20.5	20.5	17.6	17.6
85°	20.5	14.6	14.6	14.6	14.6	11.7	11.7	8.8	5.9	5.9	5.9
87.5°	8.8	8.8	8.8	8.8	8.8	5.9	2.9	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)