

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: P835892

Luminaire Tested: **ARCH3-110-730-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11963 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

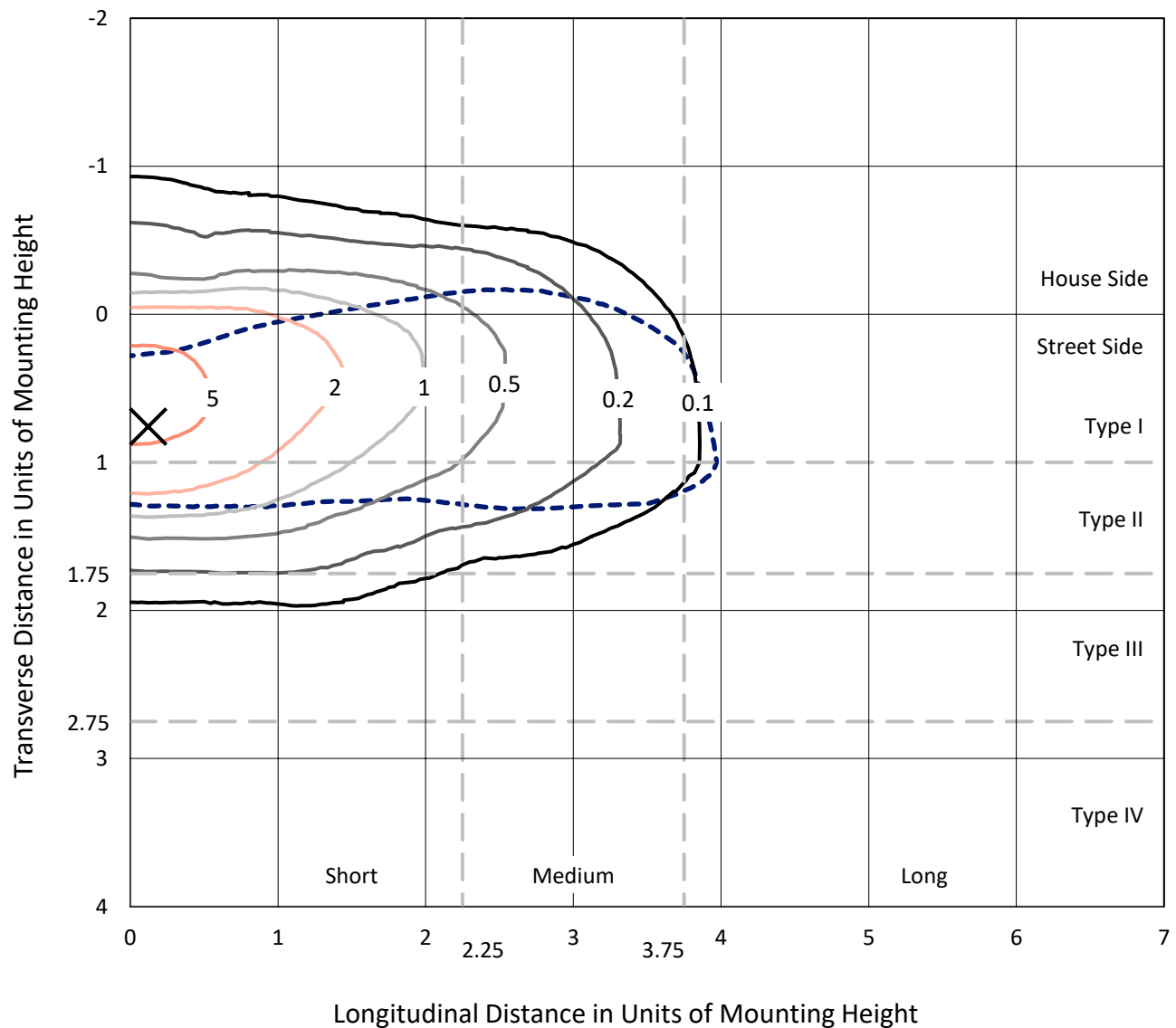
Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

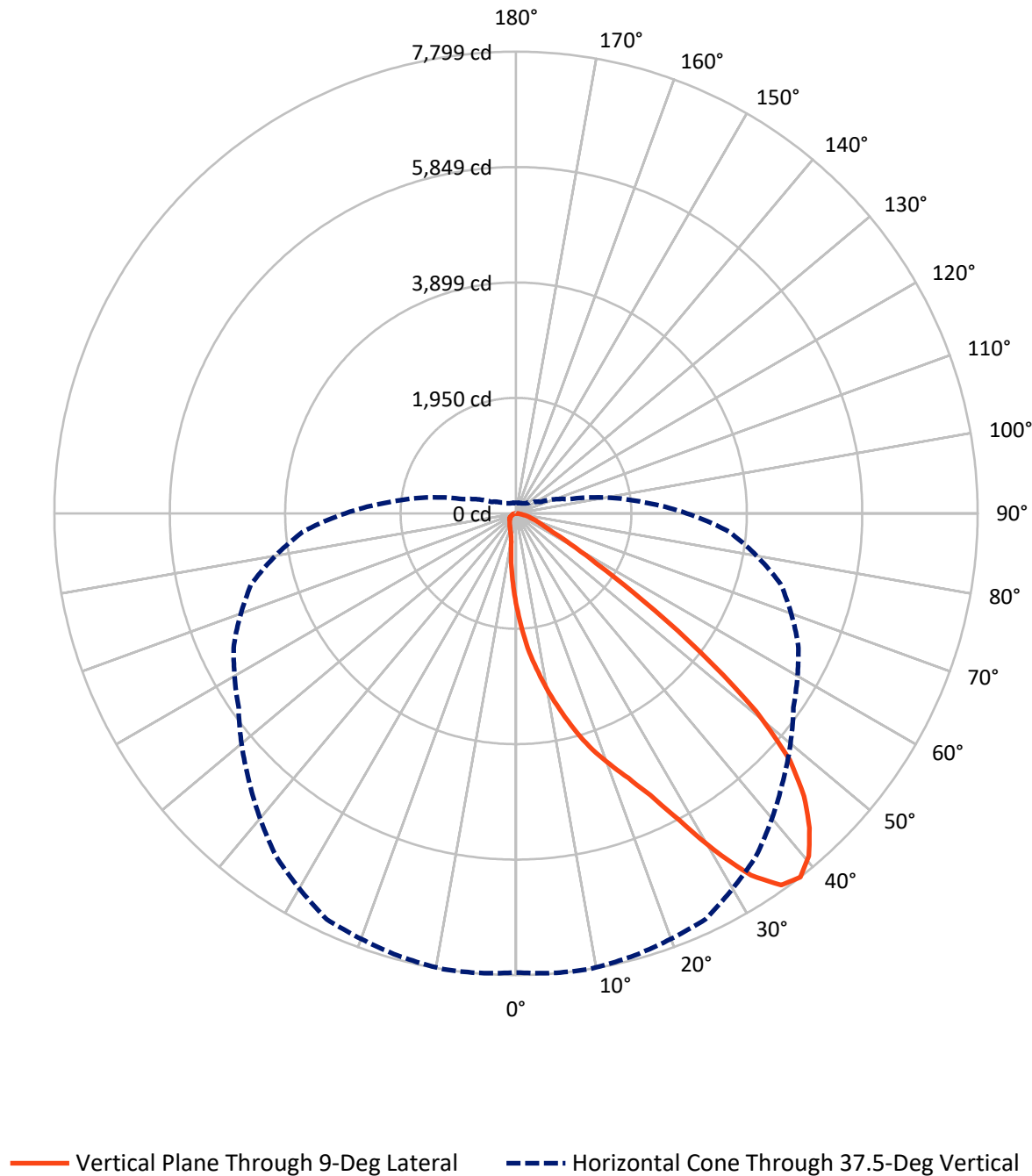
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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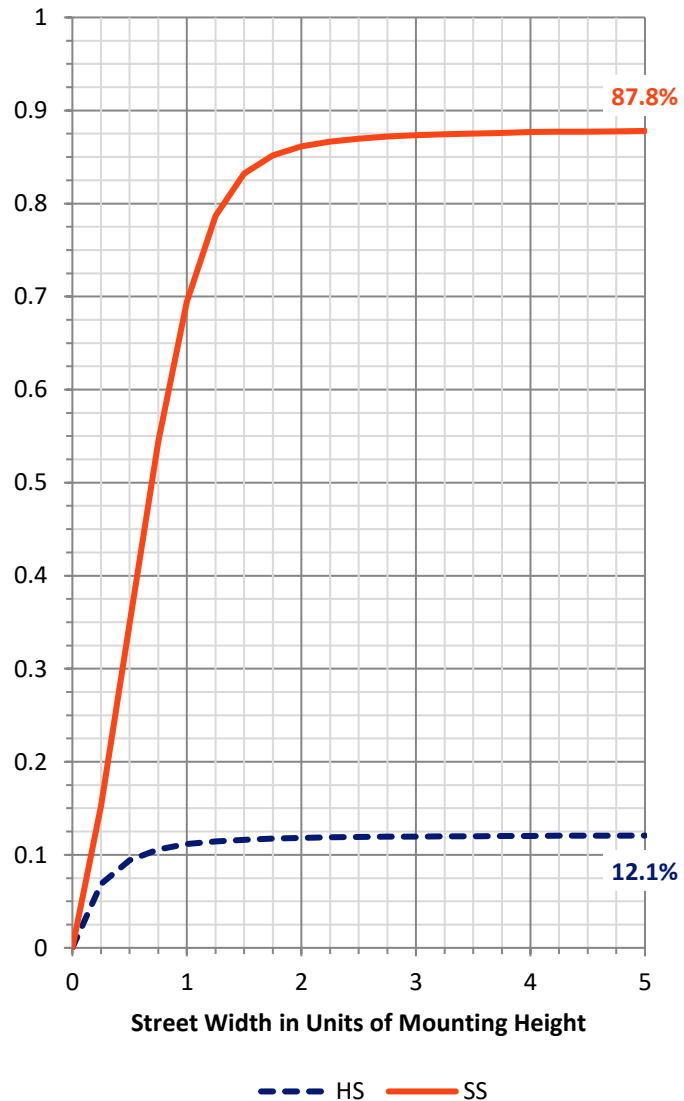
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1454.9	0.0	1454.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	10508.1	0.0	10508.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	11963.0	0.0	11963.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	1.3
10°-20°	552.5	4.6
20°-30°	1135.2	9.5
30°-40°	2006.5	16.8
40°-50°	2665.5	22.3
50°-60°	2528.1	21.1
60°-70°	1928.7	16.1
70°-80°	935.0	7.8
80°-90°	52.6	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°	11963.0	100.0
0°-180°	11963.0	100.0

Coefficient of Utilization



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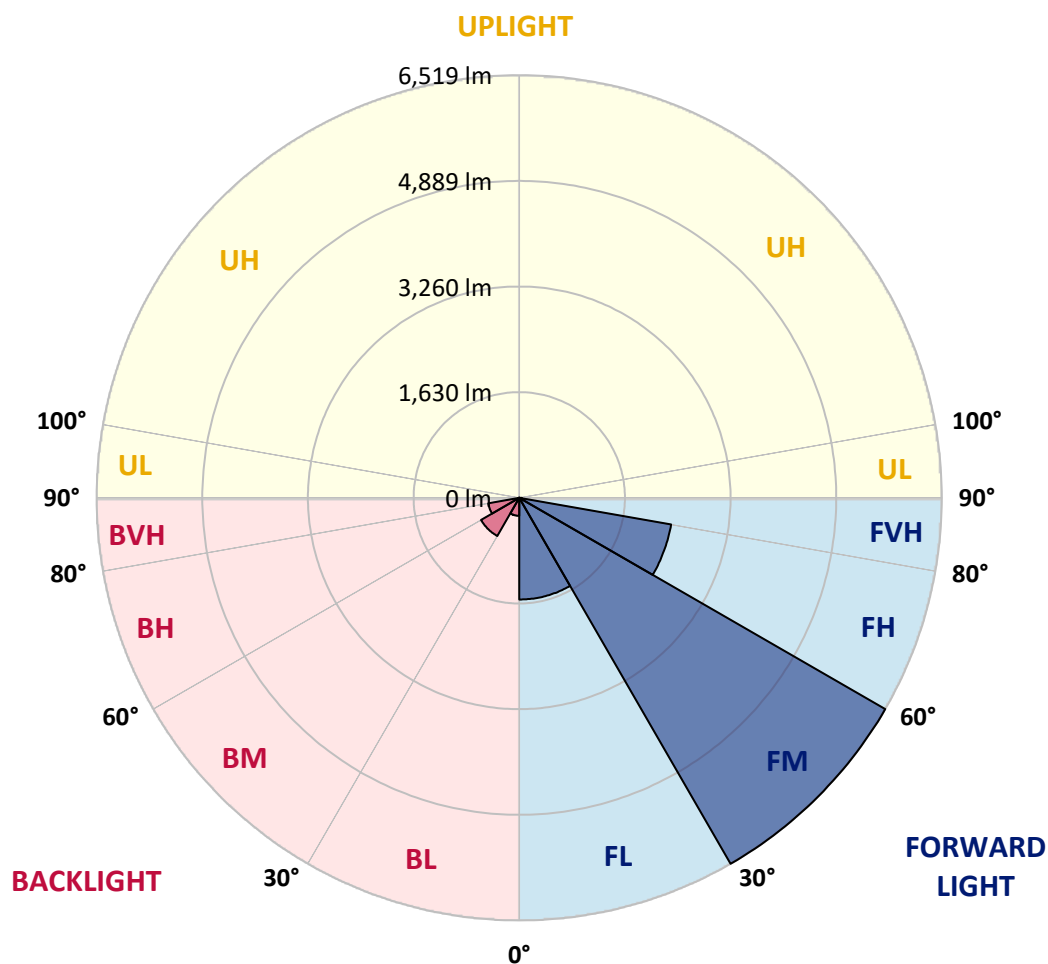
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1568.9	13.1			
FM	(30°-60°)	6519.3	54.5			
FH	(60°-80°)	2378.2	19.9			G2/5000
FVH	(80°-90°)	41.7	0.3			G1/100
BL	(0°-30°)	277.7	2.3	B1/500		
BM	(30°-60°)	680.8	5.7	B1/1000		
BH	(60°-80°)	485.5	4.1	B1/500		G1/500
BVH	(80°-90°)	11.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4
2.5°	1959.5	1925.1	1964.4	1959.5	1925.1	1903.0	1834.3	1812.2	1731.2	1672.2	1620.7
5°	2362.2	2327.8	2362.2	2352.4	2303.3	2249.3	2136.3	2062.6	1917.8	1790.1	1674.7
7.5°	2696.2	2696.2	2710.9	2713.4	2654.4	2570.9	2431.0	2320.5	2116.7	1920.2	1736.1
10°	3057.1	3059.6	3091.5	3069.4	2990.8	2877.9	2701.1	2561.1	2315.6	2057.7	1795.0
12.5°	3442.7	3445.1	3454.9	3445.1	3351.8	3206.9	2993.3	2809.1	2526.7	2214.9	1876.0
15°	3828.2	3830.6	3842.9	3825.7	3722.6	3553.2	3310.1	3084.2	2750.2	2391.7	1974.2
17.5°	4189.1	4194.1	4203.9	4181.8	4073.7	3872.4	3624.4	3351.8	2988.4	2580.8	2084.7
20°	4513.3	4518.2	4525.5	4496.1	4388.0	4186.7	3919.0	3634.2	3231.5	2774.8	2205.1
22.5°	4839.9	4844.8	4857.0	4817.8	4697.4	4466.6	4203.9	3909.2	3489.3	2988.4	2345.0
25°	5257.3	5262.2	5272.0	5215.6	5051.0	4780.9	4503.4	4201.4	3769.2	3229.0	2516.9
27.5°	5868.7	5863.8	5863.8	5760.7	5478.3	5127.2	4805.5	4498.5	4071.3	3486.9	2706.0
30°	6625.0	6612.8	6605.4	6465.4	6062.7	5517.6	5114.9	4776.0	4361.0	3759.4	2909.8
32.5°	7302.8	7302.8	7288.0	7140.7	6713.4	6043.1	5443.9	5046.1	4641.0	4034.4	3121.0
35°	7703.0	7720.2	7712.8	7602.3	7290.5	6607.8	5888.4	5370.3	4935.6	4321.7	3373.9
37.5°	7757.0	7791.4	7798.8	7732.5	7568.0	7069.5	6381.9	5721.4	5259.8	4631.1	3619.5
40°	7538.5	7612.2	7612.2	7602.3	7543.4	7288.0	6796.9	6129.0	5593.7	4952.8	3867.5
42.5°	7202.1	7278.2	7268.4	7305.2	7290.5	7236.5	7030.2	6509.6	5927.7	5284.3	4093.4
45°	6762.5	6841.1	6821.5	6887.8	6917.2	6976.2	7005.6	6774.8	6256.7	5645.3	4346.3
47.5°	6057.8	6190.4	6219.9	6337.7	6460.5	6644.7	6784.6	6870.6	6563.6	6033.2	4621.3
50°	5016.7	5203.3	5262.2	5510.2	5846.6	6227.2	6453.1	6752.7	6779.7	6431.0	4918.4
52.5°	3592.4	3808.5	3899.4	4307.0	4999.5	5662.5	6070.1	6492.4	6863.2	6811.7	5240.1
55°	2322.9	2507.1	2595.5	2978.6	3899.4	4940.5	5618.3	6156.0	6816.6	7160.3	5608.4
57.5°	1431.6	1537.2	1596.1	1925.1	2772.3	4014.8	5026.5	5846.6	6674.1	7462.4	5991.5
60°	965.0	1026.4	1055.9	1210.6	1883.4	3000.7	4213.7	5522.5	6487.5	7666.2	6340.2
62.5°	640.9	660.5	690.0	785.8	1242.5	2106.8	3236.4	4943.0	6347.6	7678.5	6598.0
65°	496.0	505.8	518.1	559.9	766.1	1473.3	2276.3	4005.0	6138.8	7418.2	6679.1
67.5°	390.4	400.3	415.0	437.1	555.0	999.4	1549.4	2934.4	5711.6	7010.5	6546.5
70°	306.9	314.3	324.1	343.8	432.2	724.4	1024.0	1949.7	4849.7	6622.6	6129.0
72.5°	243.1	250.5	260.3	279.9	351.1	530.4	702.3	1215.5	3739.8	6148.7	5326.1
75°	191.5	196.4	203.8	223.5	282.4	412.5	476.4	726.8	2541.5	5281.9	4149.9
77.5°	95.8	117.9	135.1	154.7	206.3	284.8	316.8	402.7	1073.1	2710.9	1979.2
80°	56.5	68.8	73.7	85.9	135.1	171.9	171.9	162.1	338.9	1041.1	807.9
82.5°	31.9	44.2	46.7	49.1	81.0	98.2	78.6	58.9	68.8	348.7	235.7
85°	9.8	14.7	17.2	19.6	27.0	29.5	27.0	24.6	19.6	34.4	22.1
87.5°	0.0	0.0	0.0	0.0	2.5	4.9	4.9	4.9	7.4	7.4	7.4
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°	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4
2.5°	1591.2	1559.3	1497.9	1441.4	1387.4	1348.1	1311.3	1276.9	1252.3	1232.7	1230.2
5°	1613.3	1549.4	1431.6	1321.1	1220.4	1136.9	1065.7	1009.2	967.5	938.0	935.6
7.5°	1642.8	1544.5	1365.3	1200.8	1051.0	930.6	827.5	751.4	697.4	675.3	658.1
10°	1667.3	1539.6	1299.0	1080.4	884.0	731.7	609.0	532.9	493.6	478.8	471.5
12.5°	1709.1	1544.5	1242.5	969.9	739.1	559.9	466.6	424.8	407.6	395.3	392.9
15°	1770.4	1566.6	1188.5	861.9	591.8	451.8	397.8	370.8	353.6	351.1	348.7
17.5°	1831.8	1586.3	1139.4	751.4	491.1	392.9	356.1	334.0	321.7	319.2	319.2
20°	1903.0	1610.8	1085.3	645.8	419.9	353.6	324.1	306.9	292.2	289.8	289.8
22.5°	1986.5	1645.2	1033.8	552.5	373.2	324.1	299.6	279.9	267.7	265.2	265.2
25°	2099.5	1696.8	992.0	483.7	341.3	299.6	277.5	260.3	250.5	245.6	245.6
27.5°	2224.7	1768.0	962.6	442.0	319.2	279.9	257.8	243.1	233.3	228.4	228.4
30°	2364.7	1846.6	942.9	424.8	306.9	262.7	243.1	228.4	216.1	213.6	213.6
32.5°	2519.4	1937.4	930.6	427.3	304.5	250.5	228.4	213.6	203.8	198.9	198.9
35°	2691.3	2038.1	923.3	442.0	309.4	240.6	216.1	201.4	191.5	186.6	186.6
37.5°	2882.8	2156.0	923.3	456.7	321.7	238.2	203.8	189.1	181.7	176.8	176.8
40°	3062.1	2281.2	933.1	473.9	334.0	238.2	194.0	181.7	171.9	167.0	167.0
42.5°	3202.0	2352.4	940.5	491.1	341.3	235.7	184.2	171.9	164.5	159.6	159.6
45°	3361.6	2428.5	925.7	498.5	341.3	230.8	176.8	164.5	157.2	152.2	152.2
47.5°	3538.4	2521.8	923.3	503.4	334.0	221.0	169.4	157.2	152.2	147.3	147.3
50°	3717.7	2625.0	928.2	500.9	324.1	206.3	159.6	152.2	144.9	140.0	140.0
52.5°	3921.5	2733.0	938.0	496.0	302.0	189.1	152.2	144.9	137.5	132.6	130.1
55°	4147.4	2850.9	957.7	486.2	272.6	171.9	144.9	137.5	127.7	122.8	120.3
57.5°	4407.7	2995.8	979.8	466.6	240.6	157.2	137.5	127.7	113.0	105.6	103.1
60°	4655.7	3160.3	1004.3	419.9	208.7	142.4	130.1	115.4	100.7	95.8	93.3
62.5°	4889.0	3322.3	1016.6	336.4	176.8	130.1	122.8	105.6	90.9	85.9	83.5
65°	5038.8	3499.1	989.6	228.4	144.9	120.3	113.0	98.2	83.5	76.1	76.1
67.5°	5048.6	3582.6	896.3	149.8	117.9	108.0	103.1	88.4	73.7	68.8	66.3
70°	4800.6	3457.4	685.1	117.9	98.2	93.3	93.3	78.6	63.8	58.9	56.5
72.5°	4230.9	3062.1	437.1	95.8	83.5	78.6	78.6	66.3	56.5	49.1	46.7
75°	3339.5	2362.2	233.3	78.6	68.8	66.3	61.4	54.0	46.7	41.7	39.3
77.5°	1534.7	1041.1	108.0	56.5	51.6	51.6	46.7	39.3	36.8	31.9	31.9
80°	606.5	353.6	54.0	36.8	34.4	34.4	34.4	27.0	27.0	22.1	19.6
82.5°	167.0	73.7	27.0	22.1	22.1	22.1	19.6	17.2	17.2	14.7	14.7
85°	17.2	12.3	12.3	12.3	12.3	9.8	9.8	7.4	4.9	4.9	4.9
87.5°	7.4	7.4	7.4	7.4	7.4	4.9	2.5	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)