

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: P841091

Luminaire Tested: **ARCH4-130-730-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841091
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: ARCH4-130-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1080mA 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: 15321 lumens
Efficiency: N/A
Efficacy: 116.1 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

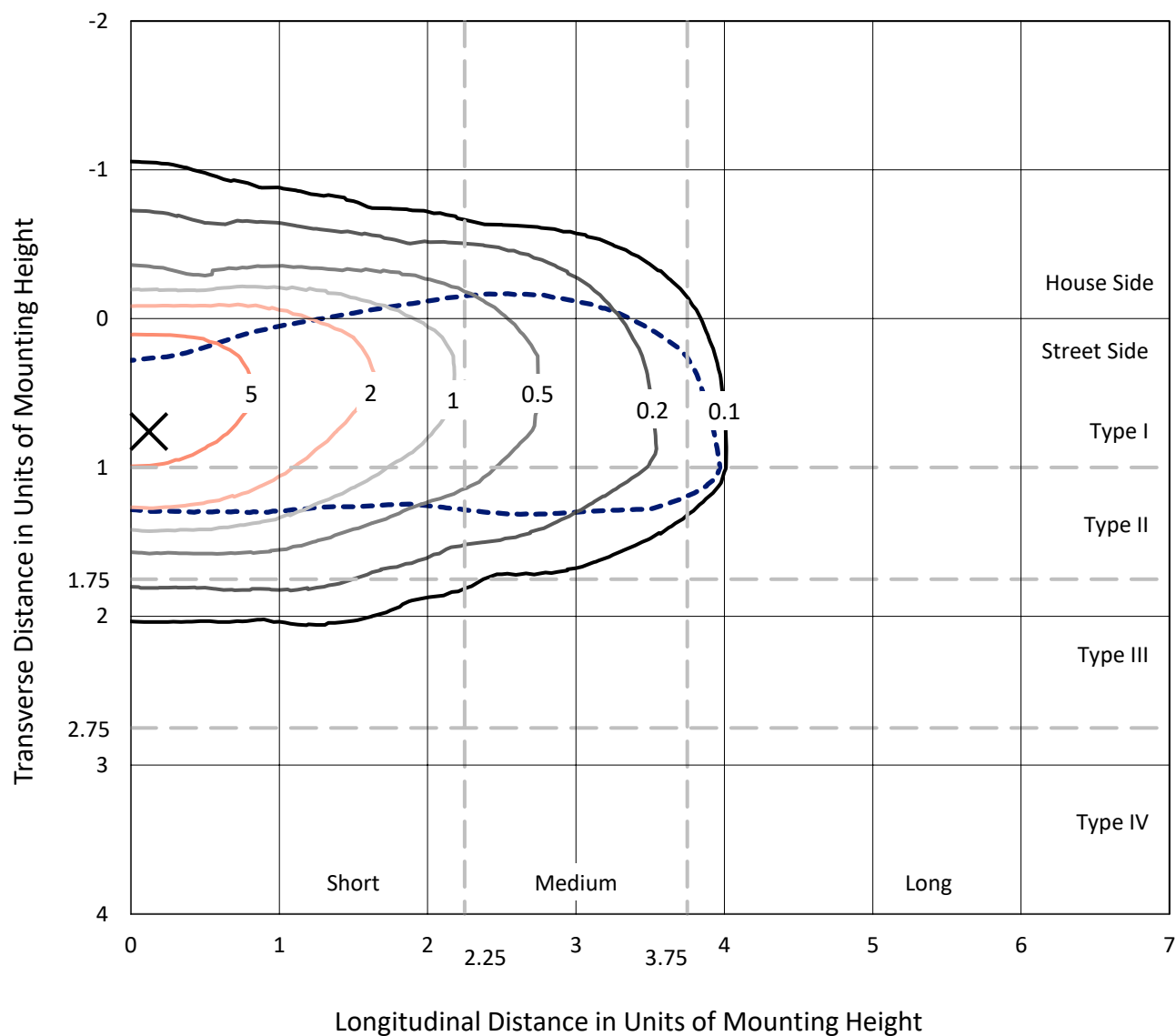
Input Watts (W): 132
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

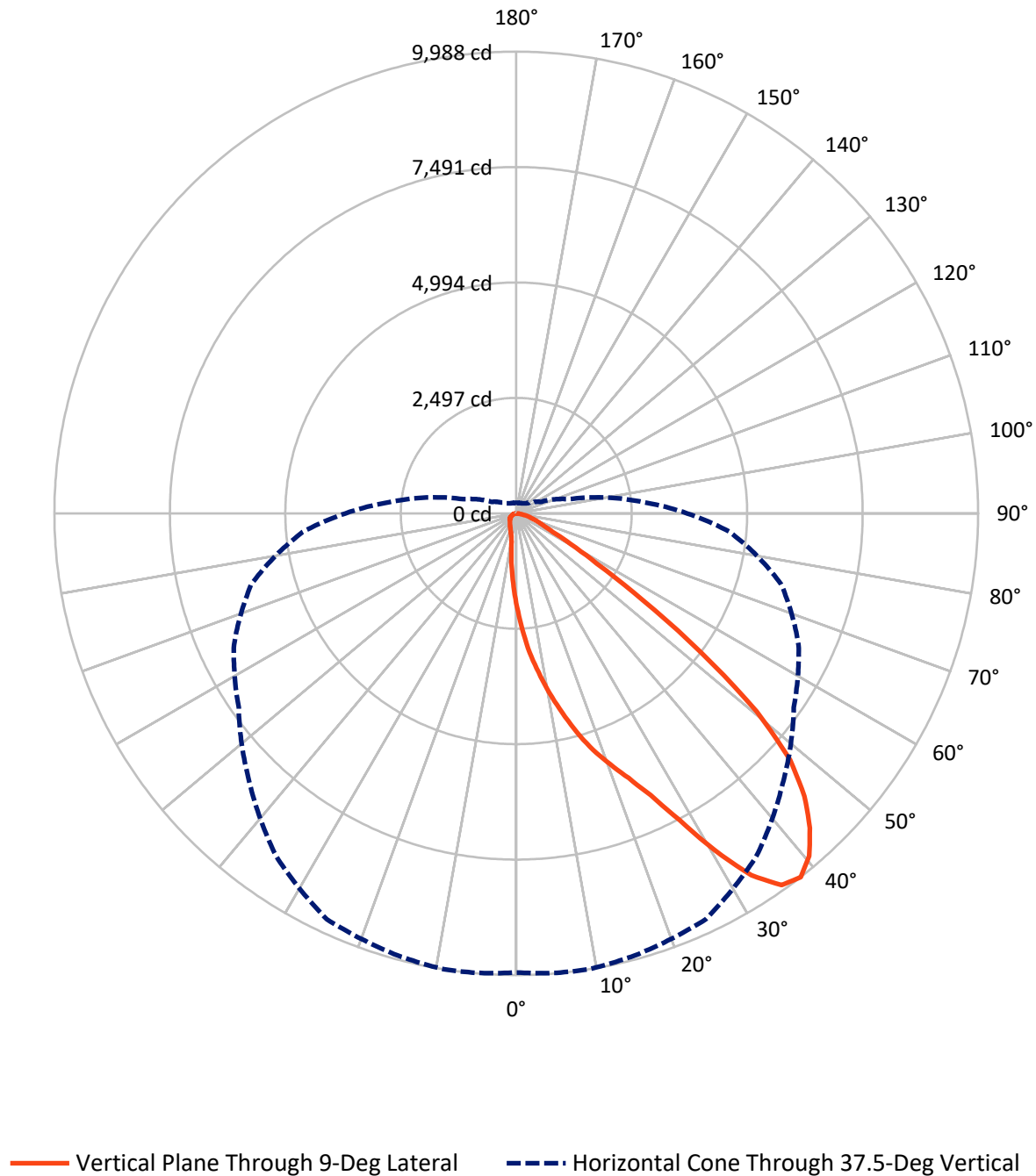
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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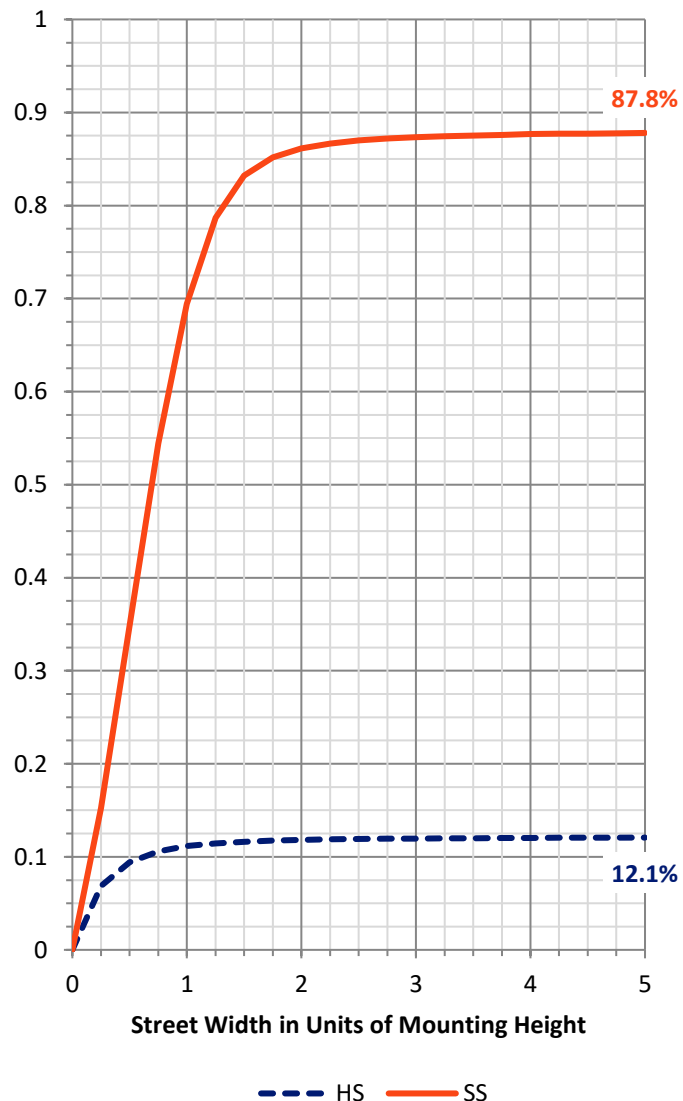
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1863.3	0.0	1863.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	13457.7	0.0	13457.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	15321.0	0.0	15321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.6	1.3
10°-20°	707.5	4.6
20°-30°	1453.8	9.5
30°-40°	2569.7	16.8
40°-50°	3413.7	22.3
50°-60°	3237.7	21.1
60°-70°	2470.1	16.1
70°-80°	1197.5	7.8
80°-90°	67.4	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°	15321.0	100.0
0°-180°	15321.0	100.0

Coefficient of Utilization



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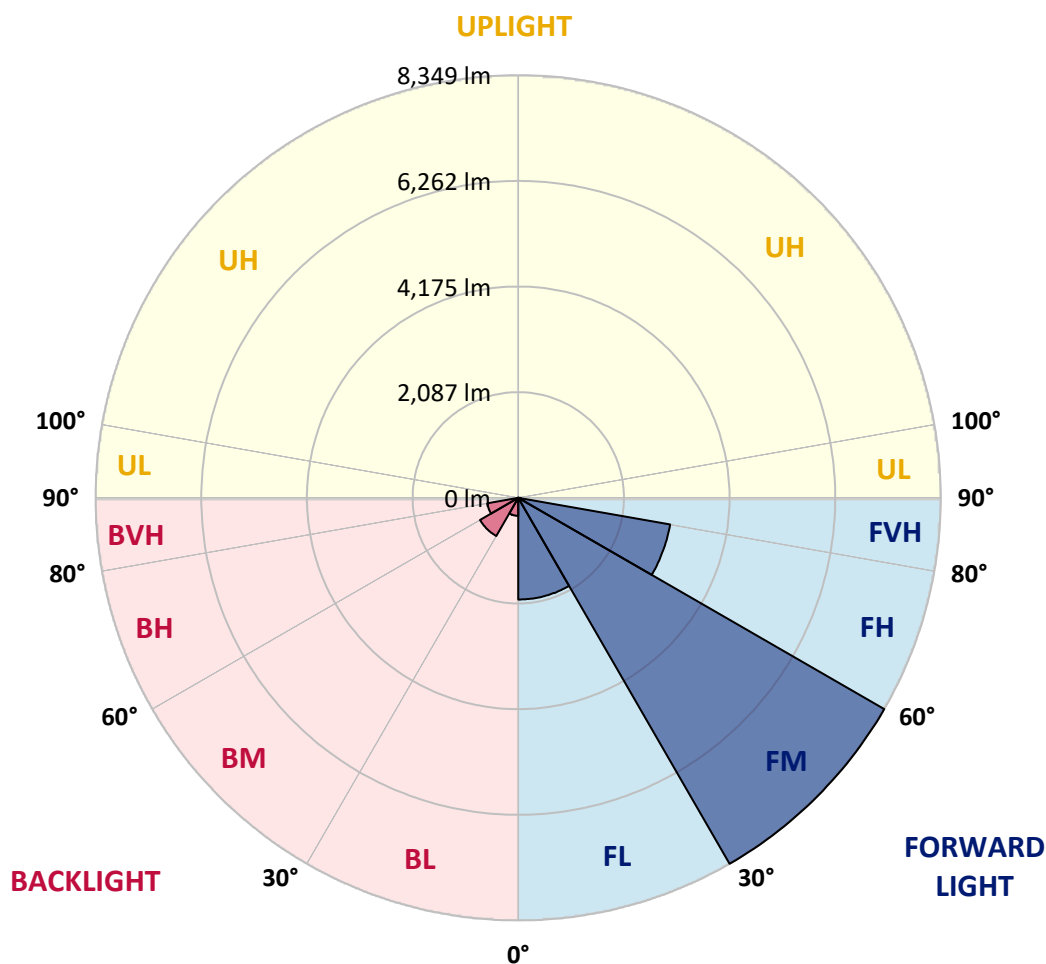
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2009.4	13.1			
FM	(30°-60°)	8349.2	54.5			
FH	(60°-80°)	3045.8	19.9			G2/5000
FVH	(80°-90°)	53.4	0.3			G1/100
BL	(0°-30°)	355.6	2.3	B1/500		
BM	(30°-60°)	871.9	5.7	B1/1000		
BH	(60°-80°)	621.8	4.1	B2/1000		G2/1000
BVH	(80°-90°)	14.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2025.3	2025.3	2025.3	2025.3	2025.3	2025.3	2025.3	2025.3	2025.3	2025.3	2025.3
2.5°	2509.5	2465.5	2515.8	2509.5	2465.5	2437.2	2349.2	2320.9	2217.1	2141.6	2075.6
5°	3025.3	2981.3	3025.3	3012.7	2949.8	2880.6	2736.0	2641.6	2456.1	2292.6	2144.8
7.5°	3453.0	3453.0	3471.9	3475.0	3399.5	3292.6	3113.4	2971.8	2710.8	2459.2	2223.4
10°	3915.3	3918.4	3959.3	3931.0	3830.4	3685.7	3459.3	3280.0	2965.5	2635.3	2298.8
12.5°	4409.0	4412.2	4424.7	4412.2	4292.7	4107.1	3833.5	3597.7	3236.0	2836.6	2402.6
15°	4902.7	4905.9	4921.6	4899.6	4767.5	4550.5	4239.2	3949.9	3522.2	3063.0	2528.4
17.5°	5365.0	5371.3	5383.9	5355.6	5217.2	4959.3	4641.7	4292.7	3827.2	3305.2	2669.9
20°	5780.1	5786.4	5795.9	5758.1	5619.8	5361.9	5019.1	4654.3	4138.6	3553.6	2824.0
22.5°	6198.4	6204.7	6220.4	6170.1	6016.0	5720.4	5383.9	5006.5	4468.8	3827.2	3003.3
25°	6733.0	6739.3	6751.9	6679.6	6468.9	6122.9	5767.6	5380.8	4827.3	4135.4	3223.4
27.5°	7516.1	7509.8	7509.8	7377.7	7016.0	6566.3	6154.4	5761.3	5214.1	4465.6	3465.6
30°	8484.7	8468.9	8459.5	8280.3	7764.5	7066.4	6550.6	6116.6	5585.2	4814.7	3726.6
32.5°	9352.6	9352.6	9333.8	9145.1	8597.9	7739.4	6972.0	6462.6	5943.7	5166.9	3997.0
35°	9865.2	9887.2	9877.8	9736.3	9336.9	8462.7	7541.2	6877.7	6321.0	5534.8	4321.0
37.5°	9934.4	9978.4	9987.9	9903.0	9692.3	9053.9	8173.3	7327.4	6736.2	5931.1	4635.4
40°	9654.5	9748.9	9748.9	9736.3	9660.8	9333.8	8704.8	7849.4	7163.9	6343.1	4953.1
42.5°	9223.7	9321.2	9308.6	9355.8	9336.9	9267.7	9003.6	8336.9	7591.5	6767.6	5242.4
45°	8660.8	8761.4	8736.3	8821.2	8858.9	8934.4	8972.1	8676.5	8012.9	7229.9	5566.3
47.5°	7758.2	7928.0	7965.8	8116.7	8274.0	8509.8	8689.1	8799.1	8406.0	7726.8	5918.5
50°	6424.8	6663.8	6739.3	7056.9	7487.8	7975.2	8264.5	8648.2	8682.8	8236.2	6299.0
52.5°	4600.8	4877.6	4993.9	5516.0	6402.8	7251.9	7773.9	8314.8	8789.7	8723.7	6711.0
55°	2975.0	3210.8	3324.1	3814.6	4993.9	6327.3	7195.3	7884.0	8730.0	9170.2	7182.7
57.5°	1833.4	1968.6	2044.1	2465.5	3550.5	5141.7	6437.4	7487.8	8547.6	9557.0	7673.3
60°	1235.9	1314.5	1352.3	1550.4	2412.1	3842.9	5396.5	7072.7	8308.6	9818.1	8119.9
62.5°	820.8	846.0	883.7	1006.3	1591.3	2698.2	4144.8	6330.5	8129.3	9833.8	8450.1
65°	635.2	647.8	663.6	717.0	981.2	1886.9	2915.2	5129.2	7862.0	9500.4	8553.9
67.5°	500.0	512.6	531.5	559.8	710.7	1279.9	1984.4	3758.0	7314.8	8978.4	8384.0
70°	393.1	402.5	415.1	440.3	553.5	927.7	1311.4	2497.0	6211.0	8481.5	7849.4
72.5°	311.3	320.8	333.3	358.5	449.7	679.3	899.4	1556.7	4789.5	7874.6	6821.1
75°	245.3	251.6	261.0	286.2	361.7	528.3	610.1	930.9	3254.9	6764.5	5314.7
77.5°	122.6	151.0	173.0	198.1	264.2	364.8	405.7	515.7	1374.3	3471.9	2534.7
80°	72.3	88.1	94.3	110.1	173.0	220.1	220.1	207.6	434.0	1333.4	1034.6
82.5°	40.9	56.6	59.8	62.9	103.8	125.8	100.6	75.5	88.1	446.6	301.9
85°	12.6	18.9	22.0	25.2	34.6	37.7	34.6	31.4	25.2	44.0	28.3
87.5°	0.0	0.0	0.0	0.0	3.1	6.3	6.3	6.3	9.4	9.4	9.4
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°	2025.3	2025.3	2025.3	2025.3	2025.3	2025.3	2025.3	2025.3	2025.3	2025.3	2025.3
2.5°	2037.8	1996.9	1918.3	1846.0	1776.8	1726.5	1679.3	1635.3	1603.8	1578.7	1575.5
5°	2066.1	1984.4	1833.4	1691.9	1563.0	1456.0	1364.8	1292.5	1239.1	1201.3	1198.2
7.5°	2103.9	1978.1	1748.5	1537.8	1346.0	1191.9	1059.8	962.3	893.1	864.8	842.8
10°	2135.3	1971.8	1663.6	1383.7	1132.1	937.2	779.9	682.4	632.1	613.2	603.8
12.5°	2188.8	1978.1	1591.3	1242.2	946.6	717.0	597.5	544.1	522.0	506.3	503.2
15°	2267.4	2006.4	1522.1	1103.8	757.9	578.6	509.5	474.9	452.9	449.7	446.6
17.5°	2346.0	2031.5	1459.2	962.3	629.0	503.2	456.0	427.7	412.0	408.8	408.8
20°	2437.2	2063.0	1390.0	827.1	537.8	452.9	415.1	393.1	374.2	371.1	371.1
22.5°	2544.1	2107.0	1324.0	707.6	478.0	415.1	383.7	358.5	342.8	339.6	339.6
25°	2688.8	2173.1	1270.5	619.5	437.1	383.7	355.4	333.3	320.8	314.5	314.5
27.5°	2849.2	2264.3	1232.8	566.1	408.8	358.5	330.2	311.3	298.8	292.5	292.5
30°	3028.4	2364.9	1207.6	544.1	393.1	336.5	311.3	292.5	276.7	273.6	273.6
32.5°	3226.6	2481.2	1191.9	547.2	390.0	320.8	292.5	273.6	261.0	254.7	254.7
35°	3446.7	2610.2	1182.4	566.1	396.2	308.2	276.7	257.9	245.3	239.0	239.0
37.5°	3692.0	2761.1	1182.4	584.9	412.0	305.0	261.0	242.1	232.7	226.4	226.4
40°	3921.6	2921.5	1195.0	606.9	427.7	305.0	248.4	232.7	220.1	213.8	213.8
42.5°	4100.8	3012.7	1204.5	629.0	437.1	301.9	235.9	220.1	210.7	204.4	204.4
45°	4305.2	3110.2	1185.6	638.4	437.1	295.6	226.4	210.7	201.3	195.0	195.0
47.5°	4531.7	3229.7	1182.4	644.7	427.7	283.0	217.0	201.3	195.0	188.7	188.7
50°	4761.2	3361.8	1188.7	641.5	415.1	264.2	204.4	195.0	185.5	179.3	179.3
52.5°	5022.2	3500.2	1201.3	635.2	386.8	242.1	195.0	185.5	176.1	169.8	166.7
55°	5311.6	3651.1	1226.5	622.7	349.1	220.1	185.5	176.1	163.5	157.2	154.1
57.5°	5644.9	3836.7	1254.8	597.5	308.2	201.3	176.1	163.5	144.7	135.2	132.1
60°	5962.5	4047.4	1286.2	537.8	267.3	182.4	166.7	147.8	128.9	122.6	119.5
62.5°	6261.3	4254.9	1301.9	430.8	226.4	166.7	157.2	135.2	116.4	110.1	106.9
65°	6453.1	4481.3	1267.4	292.5	185.5	154.1	144.7	125.8	106.9	97.5	97.5
67.5°	6465.7	4588.3	1147.9	191.8	151.0	138.4	132.1	113.2	94.3	88.1	84.9
70°	6148.1	4427.9	877.4	151.0	125.8	119.5	119.5	100.6	81.8	75.5	72.3
72.5°	5418.5	3921.6	559.8	122.6	106.9	100.6	100.6	84.9	72.3	62.9	59.8
75°	4276.9	3025.3	298.8	100.6	88.1	84.9	78.6	69.2	59.8	53.5	50.3
77.5°	1965.5	1333.4	138.4	72.3	66.0	66.0	59.8	50.3	47.2	40.9	40.9
80°	776.8	452.9	69.2	47.2	44.0	44.0	44.0	34.6	34.6	28.3	25.2
82.5°	213.8	94.3	34.6	28.3	28.3	28.3	25.2	22.0	22.0	18.9	18.9
85°	22.0	15.7	15.7	15.7	15.7	12.6	12.6	9.4	6.3	6.3	6.3
87.5°	9.4	9.4	9.4	9.4	9.4	6.3	3.1	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)