

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: P841021

Luminaire Tested: **ARCH4-120-730-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-120-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14351 lumens
Efficiency: N/A
Efficacy: 117.6 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

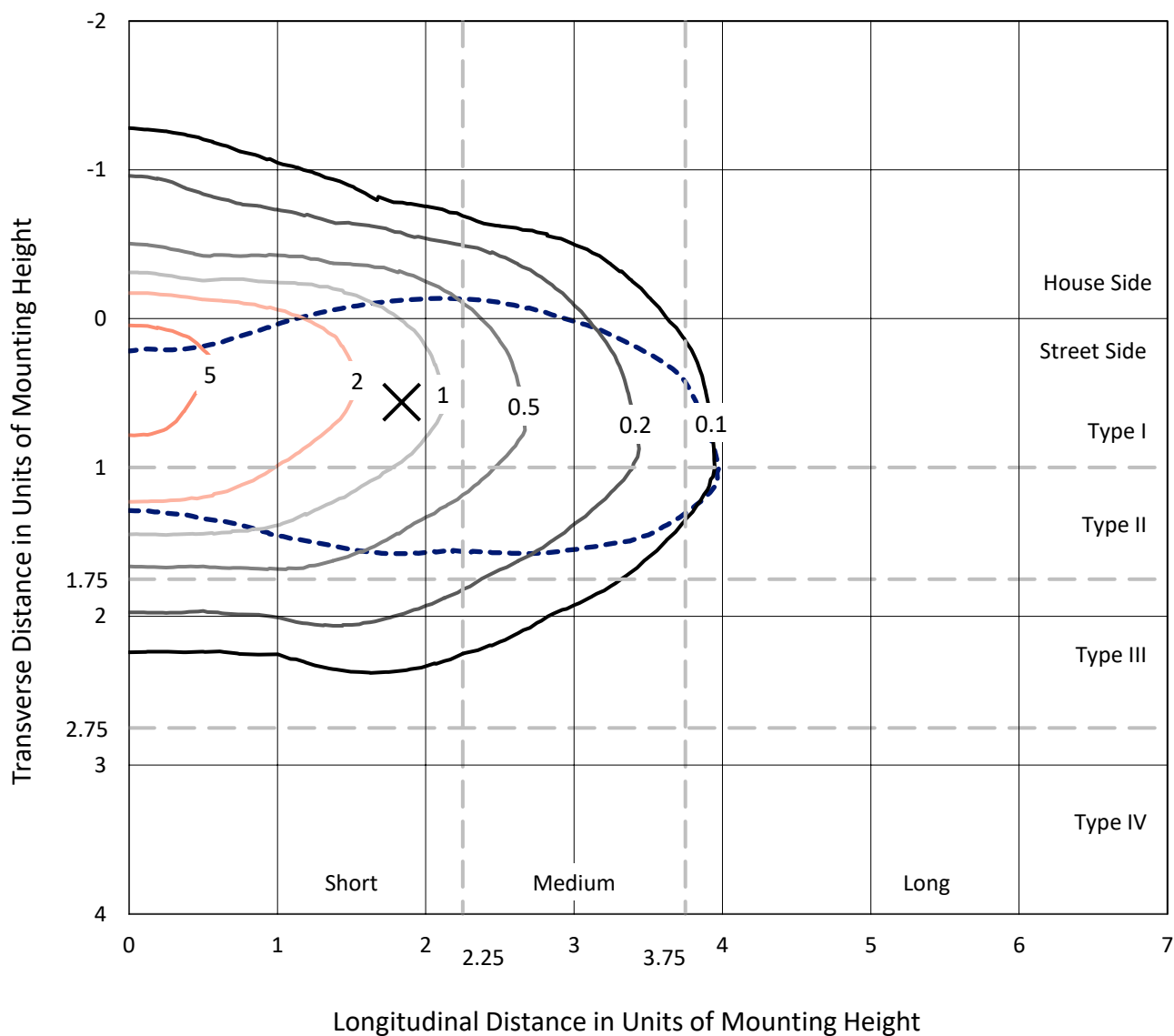
Input Watts (W): 122
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

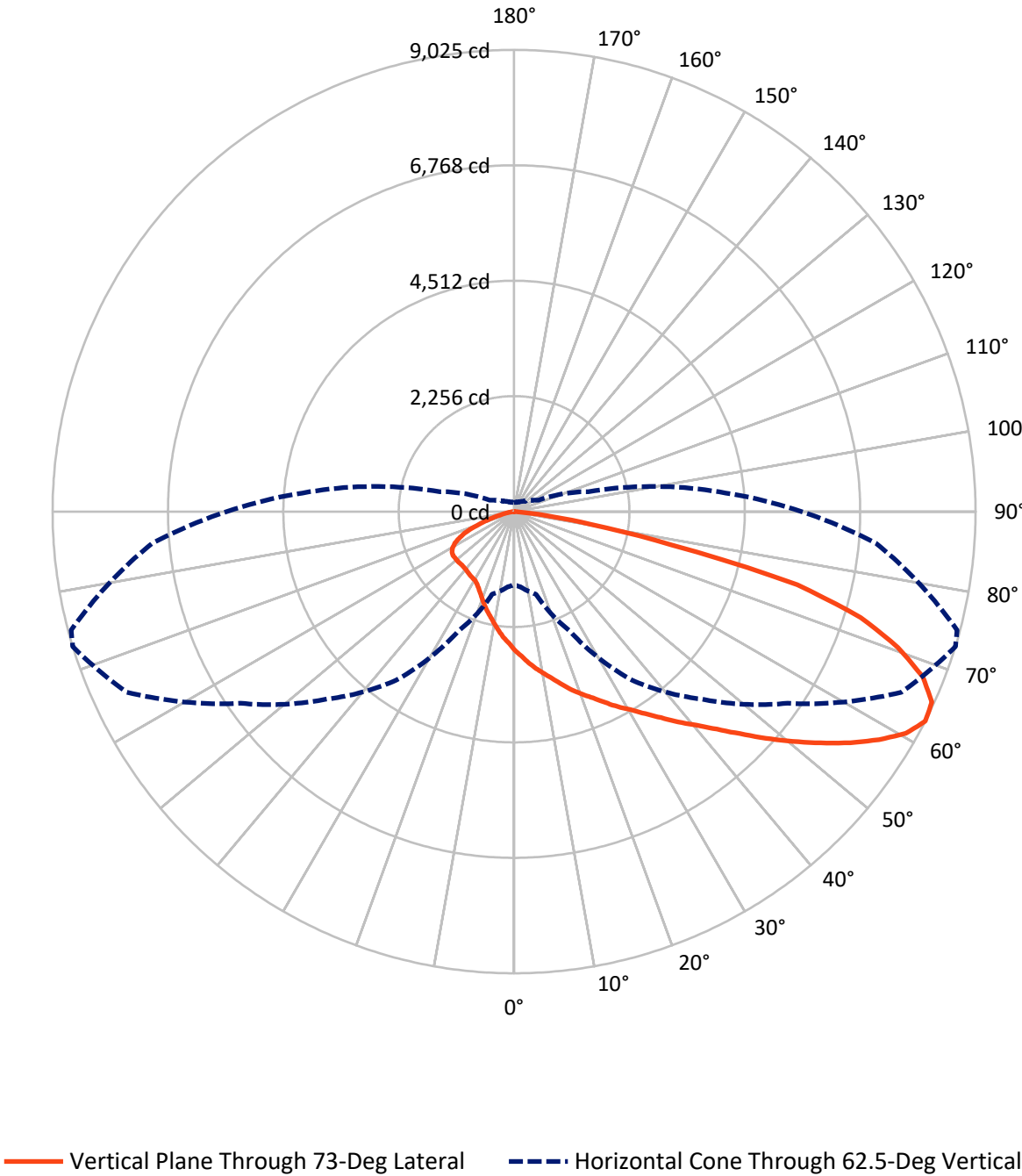
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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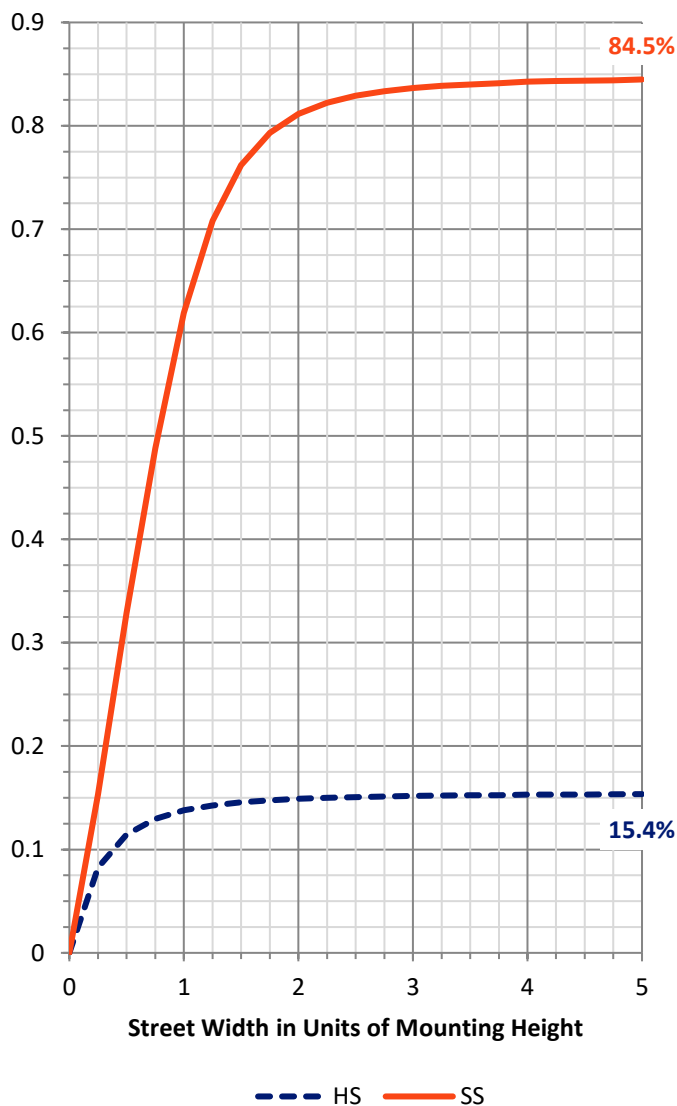
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2224.6	0.0	2224.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	12126.4	0.0	12126.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	14351.0	0.0	14351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.5	1.8
10°-20°	792.2	5.5
20°-30°	1318.6	9.2
30°-40°	1989.5	13.9
40°-50°	2780.8	19.4
50°-60°	3071.6	21.4
60°-70°	2675.8	18.6
70°-80°	1351.6	9.4
80°-90°	108.5	0.8
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°	14351.0	100.0
0°-180°	14351.0	100.0

Coefficient of Utilization



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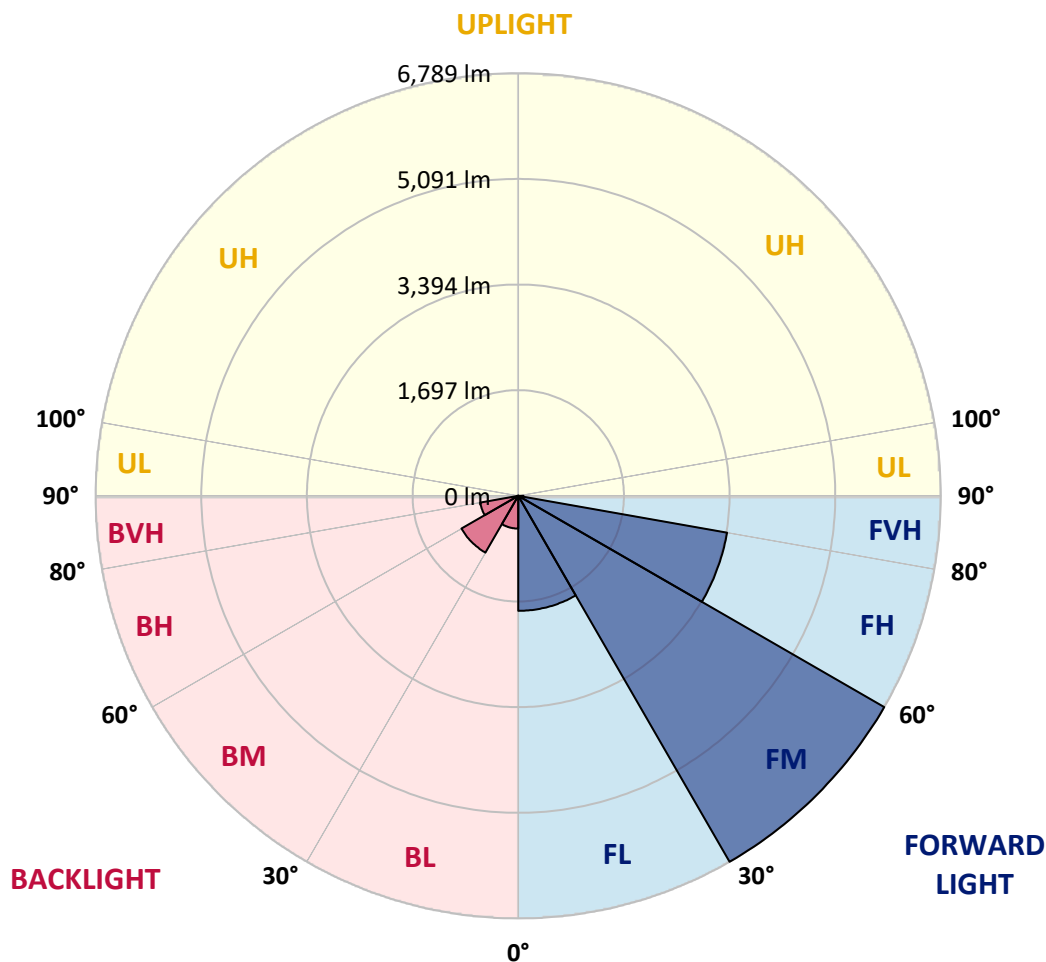
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1847.4	12.9			
FM	(30°-60°)	6788.5	47.3			
FH	(60°-80°)	3406.5	23.7			G2/5000
FVH	(80°-90°)	84.0	0.6			G1/100
BL	(0°-30°)	525.8	3.7	B2/1000		
BM	(30°-60°)	1053.3	7.3	B2/2500		
BH	(60°-80°)	620.9	4.3	B2/1000		G2/1000
BVH	(80°-90°)	24.5	0.2			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°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4
2.5°	3092.6	3127.0	3108.3	3120.8	3058.2	3017.6	2970.7	2880.0	2830.0	2823.7	2764.3
5°	3546.1	3583.6	3552.3	3542.9	3433.5	3339.7	3233.4	3073.9	2967.6	2948.8	2817.5
7.5°	3999.5	4033.9	3996.3	3968.2	3821.2	3655.5	3499.2	3264.6	3098.9	3067.6	2861.2
10°	4318.4	4349.7	4321.6	4293.4	4140.2	3971.3	3749.3	3442.9	3217.7	3167.7	2889.4
12.5°	4559.2	4578.0	4565.5	4540.5	4396.6	4215.2	4002.6	3643.0	3352.2	3289.6	2933.2
15°	4756.2	4787.5	4771.9	4753.1	4615.5	4434.1	4230.9	3852.5	3508.5	3430.4	2998.8
17.5°	4887.6	4909.4	4912.6	4912.6	4790.6	4612.4	4415.4	4043.3	3664.9	3564.8	3061.4
20°	4947.0	4972.0	4987.6	5012.6	4912.6	4759.3	4559.2	4205.9	3811.9	3699.3	3120.8
22.5°	4975.1	4997.0	5037.7	5093.9	5012.6	4884.4	4699.9	4356.0	3958.8	3840.0	3189.6
25°	4997.0	5025.1	5084.6	5190.9	5134.6	5025.1	4865.7	4527.9	4133.9	4012.0	3289.6
27.5°	5056.4	5090.8	5147.1	5275.3	5206.5	5153.4	5040.8	4712.4	4318.4	4193.4	3411.6
30°	5262.8	5290.9	5287.8	5369.1	5284.7	5269.1	5190.9	4890.7	4496.7	4371.6	3555.4
32.5°	5638.0	5666.2	5597.4	5566.1	5381.6	5384.8	5353.5	5081.4	4709.3	4581.1	3721.2
35°	6041.4	6072.7	5982.0	5928.9	5619.3	5528.6	5544.2	5319.1	4947.0	4818.8	3927.6
37.5°	6401.0	6438.6	6360.4	6282.2	5969.5	5760.0	5756.9	5584.9	5219.0	5087.7	4155.8
40°	6598.0	6641.8	6688.7	6644.9	6316.6	6085.2	5985.1	5856.9	5487.9	5353.5	4402.9
42.5°	6691.9	6813.8	6898.2	6870.1	6601.2	6366.6	6247.8	6141.5	5816.3	5684.9	4696.8
45°	6429.2	6432.3	6610.5	6763.8	6713.7	6557.4	6535.5	6460.5	6191.5	6066.4	5028.3
47.5°	6100.8	6075.8	6200.9	6473.0	6613.7	6654.3	6782.5	6813.8	6619.9	6494.8	5366.0
50°	5312.8	5328.5	5735.0	6125.9	6401.0	6663.7	6957.6	7176.5	7060.8	6942.0	5722.5
52.5°	4321.6	4359.1	4825.0	5684.9	6119.6	6569.9	7060.8	7539.3	7511.1	7398.6	6079.0
55°	3464.8	3524.2	4018.2	4950.1	5760.0	6360.4	7104.6	7870.7	7977.1	7873.9	6429.2
57.5°	2648.6	2711.1	3127.0	4083.9	5300.3	6019.5	7073.4	8161.6	8411.7	8346.1	6751.3
60°	1995.0	2057.6	2323.4	3311.5	4724.9	5638.0	6917.0	8352.3	8802.6	8733.8	6985.8
62.5°	1429.1	1479.1	1676.1	2576.7	4024.5	5184.6	6532.4	8355.4	9024.6	8968.3	7098.4
65°	1028.8	1028.8	1188.3	1838.7	3367.8	4640.5	5950.7	7970.8	8977.7	8962.1	7020.2
67.5°	741.1	747.4	875.6	1285.2	2686.1	3980.7	5197.1	7286.0	8615.0	8693.2	6738.8
70°	525.3	541.0	600.4	897.5	2029.4	3142.7	4390.4	6388.5	7961.4	8099.0	6194.7
72.5°	406.5	415.9	456.5	625.4	1482.2	2335.9	3499.2	5387.9	7089.0	7245.3	5453.5
75°	312.7	322.1	353.4	459.7	1063.2	1638.6	2486.0	4180.8	5716.2	5994.5	4381.0
77.5°	228.3	240.8	262.7	334.6	619.2	1041.3	1507.2	2351.5	3155.2	3286.5	2295.2
80°	106.3	122.0	153.2	215.8	334.6	490.9	534.7	906.8	1516.6	1585.4	1244.6
82.5°	59.4	75.0	87.6	131.3	168.9	175.1	181.4	228.3	572.2	631.7	522.2
85°	28.1	37.5	40.7	56.3	56.3	50.0	59.4	43.8	93.8	112.6	109.4
87.5°	0.0	3.1	6.3	15.6	12.5	9.4	9.4	9.4	9.4	12.5	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°	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4
2.5°	2736.2	2695.5	2601.7	2520.4	2467.2	2420.3	2357.8	2329.6	2279.6	2289.0	2260.8
5°	2751.8	2676.7	2511.0	2357.8	2245.2	2145.1	2035.7	1973.2	1904.4	1898.1	1876.2
7.5°	2761.2	2645.5	2407.8	2192.1	2020.1	1866.8	1719.9	1638.6	1554.1	1535.4	1516.6
10°	2751.8	2598.6	2301.5	2020.1	1791.8	1601.0	1435.3	1332.1	1244.6	1222.7	1203.9
12.5°	2761.2	2573.5	2201.4	1860.6	1588.5	1372.8	1185.1	1078.8	997.5	975.6	963.1
15°	2783.1	2557.9	2117.0	1716.7	1407.2	1166.4	981.9	891.2	825.5	803.6	797.4
17.5°	2801.8	2542.3	2026.3	1576.0	1225.8	985.0	825.5	750.5	694.2	672.3	666.1
20°	2826.8	2520.4	1935.6	1441.6	1066.3	841.2	700.5	634.8	591.0	575.4	572.2
22.5°	2848.7	2504.8	1851.2	1307.1	919.3	725.5	606.6	553.5	522.2	506.6	506.6
25°	2905.0	2511.0	1779.3	1182.0	809.9	634.8	534.7	494.1	469.1	459.7	459.7
27.5°	2970.7	2536.0	1723.0	1075.7	716.1	566.0	484.7	450.3	437.8	425.3	428.4
30°	3064.5	2586.1	1685.5	988.1	647.3	512.8	444.0	419.0	406.5	403.4	403.4
32.5°	3183.3	2667.4	1682.3	931.9	597.3	472.2	415.9	394.0	387.8	384.6	384.6
35°	3324.0	2739.3	1663.6	906.8	566.0	444.0	394.0	378.4	375.2	375.2	375.2
37.5°	3492.9	2858.1	1651.1	872.4	550.4	428.4	378.4	365.9	365.9	365.9	365.9
40°	3668.0	2955.0	1632.3	841.2	544.1	419.0	369.0	353.4	353.4	353.4	353.4
42.5°	3877.5	3095.8	1626.1	825.5	534.7	412.8	356.5	337.7	340.8	340.8	344.0
45°	4130.8	3255.2	1622.9	809.9	531.6	406.5	344.0	322.1	325.2	322.1	322.1
47.5°	4387.2	3439.7	1632.3	800.5	528.5	400.3	334.6	306.4	306.4	303.3	303.3
50°	4656.2	3608.6	1638.6	791.1	522.2	387.8	319.0	293.9	287.7	281.4	284.6
52.5°	4909.4	3764.9	1641.7	775.5	503.5	369.0	306.4	278.3	268.9	259.5	262.7
55°	5162.7	3915.0	1647.9	756.7	478.4	350.2	290.8	262.7	250.2	237.7	237.7
57.5°	5391.0	4046.4	1632.3	709.8	450.3	331.5	275.2	243.9	225.1	212.6	212.6
60°	5547.4	4140.2	1585.4	641.0	412.8	309.6	259.5	225.1	203.3	193.9	193.9
62.5°	5622.4	4155.8	1501.0	528.5	365.9	287.7	240.8	206.4	187.6	181.4	181.4
65°	5550.5	4087.0	1369.6	397.1	315.8	262.7	222.0	190.7	172.0	156.4	156.4
67.5°	5300.3	3893.2	1188.3	300.2	268.9	237.7	203.3	175.1	153.2	140.7	140.7
70°	4796.9	3489.8	919.3	240.8	228.3	206.4	184.5	156.4	137.6	122.0	122.0
72.5°	4137.1	2958.2	647.3	193.9	193.9	175.1	156.4	137.6	118.8	106.3	106.3
75°	3173.9	2188.9	434.7	156.4	159.5	147.0	128.2	112.6	100.1	90.7	90.7
77.5°	1732.4	1082.0	265.8	115.7	118.8	112.6	100.1	90.7	84.4	75.0	75.0
80°	841.2	475.3	153.2	81.3	84.4	81.3	75.0	65.7	65.7	59.4	59.4
82.5°	353.4	178.2	81.3	56.3	56.3	50.0	46.9	46.9	46.9	43.8	43.8
85°	87.6	34.4	34.4	31.3	31.3	31.3	28.1	28.1	28.1	21.9	25.0
87.5°	12.5	12.5	12.5	12.5	12.5	12.5	9.4	3.1	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)