

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: P841511

Luminaire Tested: **ARCH4-190-722-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-190-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18023 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

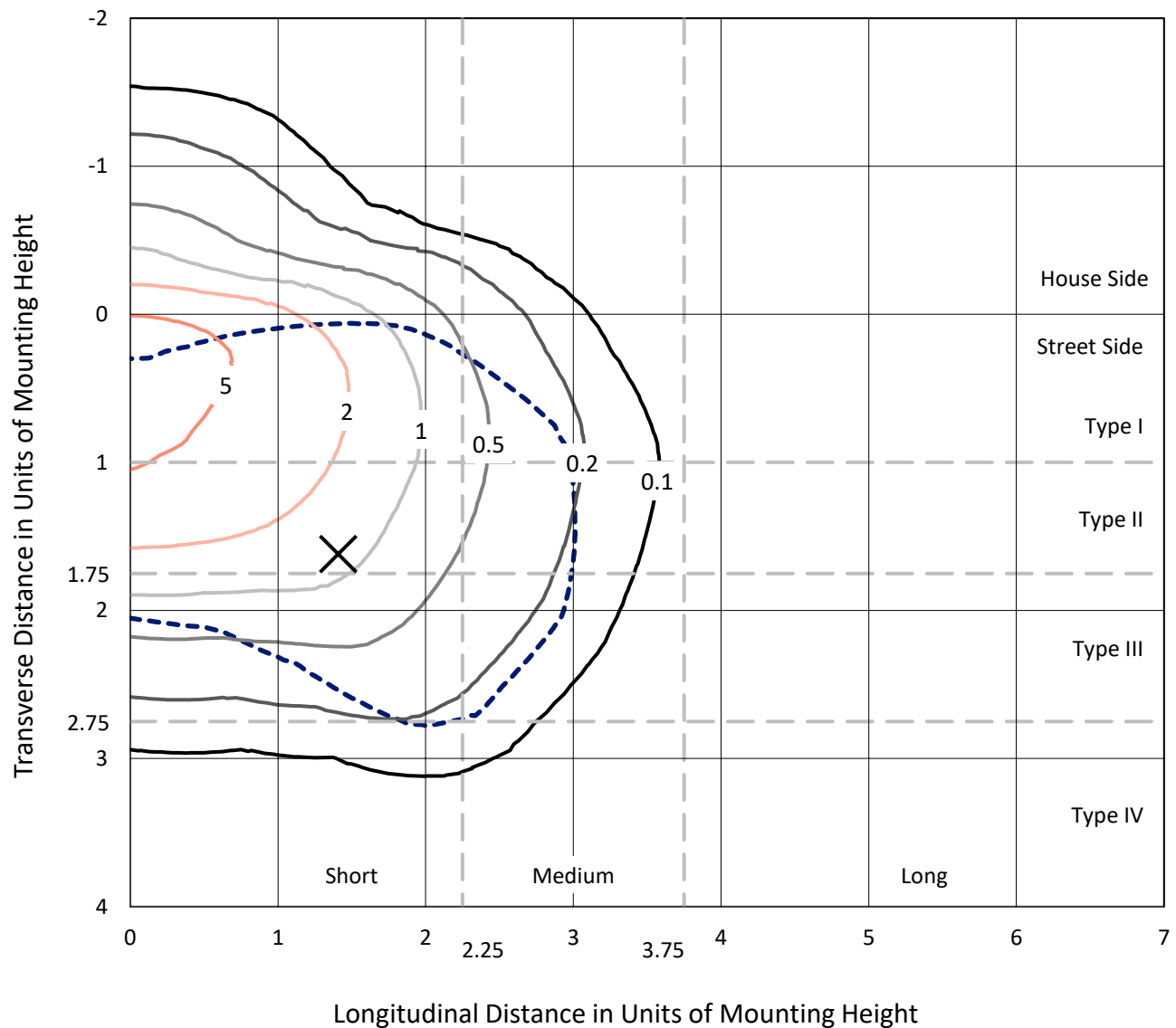
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

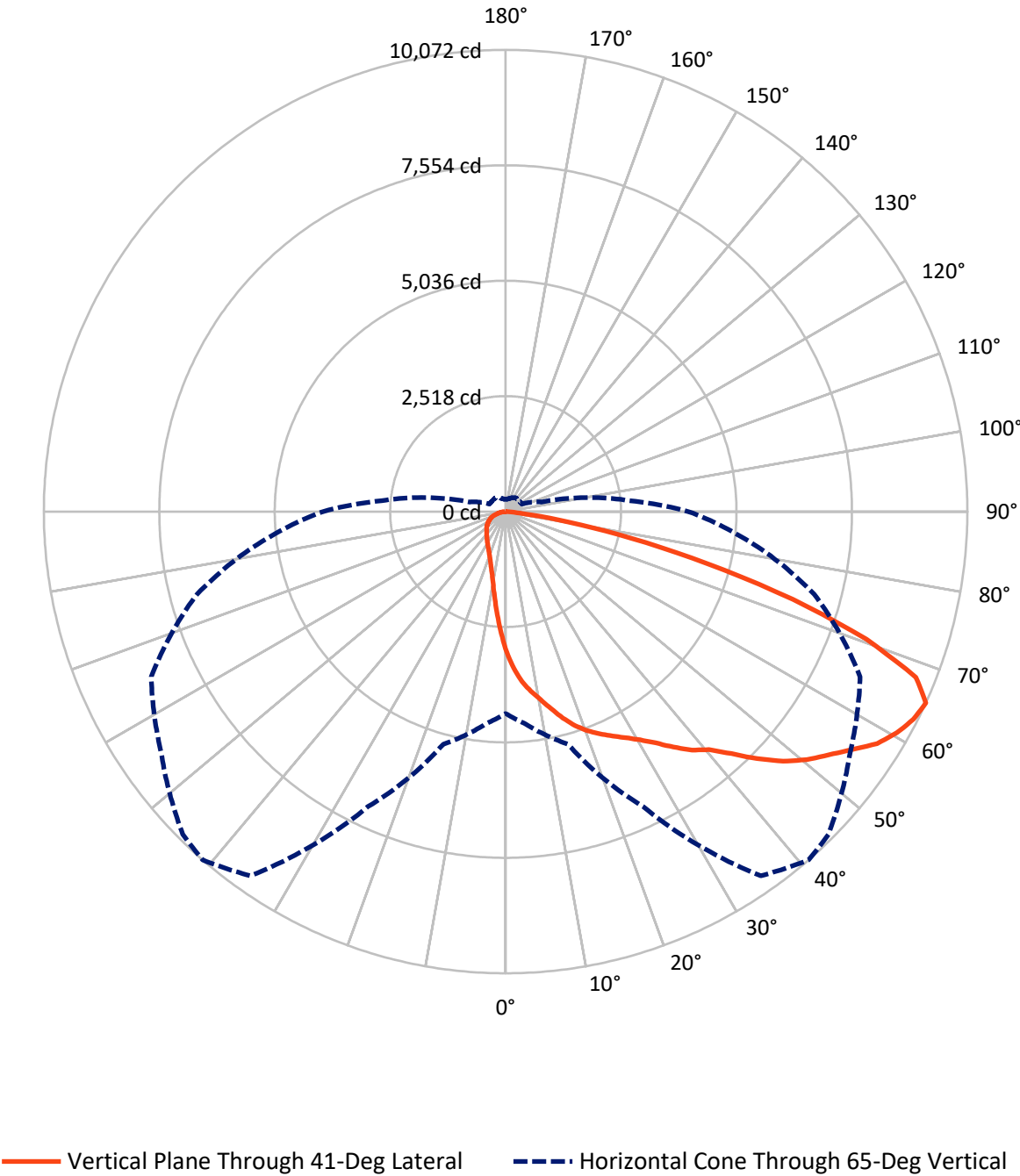
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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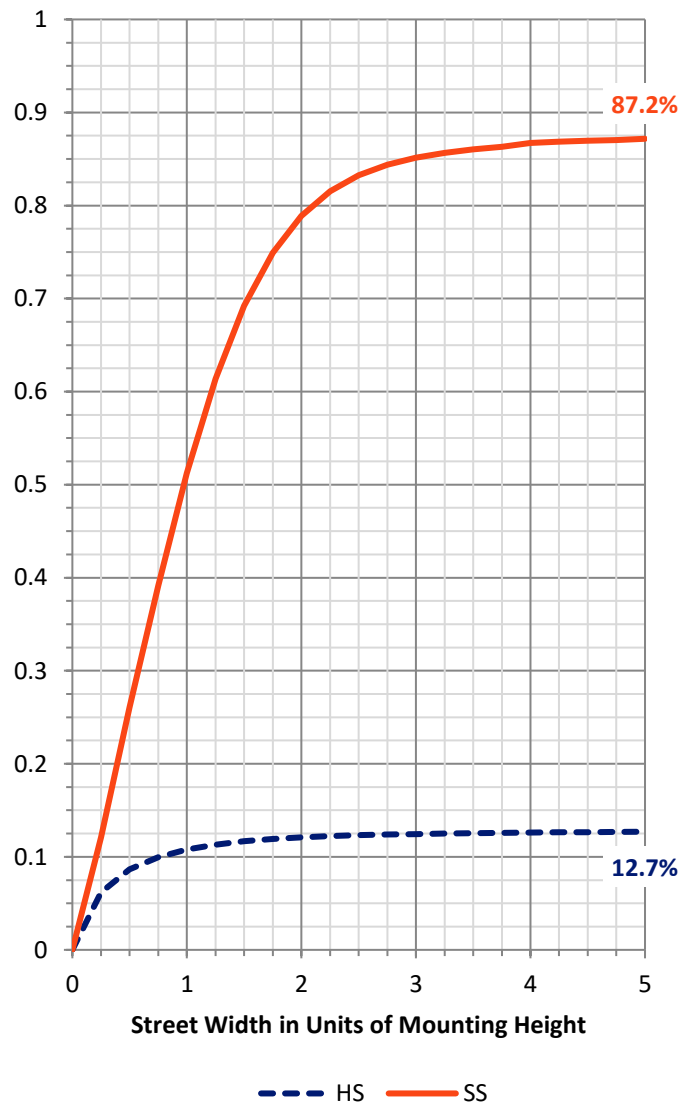
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2313.9	0.0	2313.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	15709.1	0.0	15709.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	18023.0	0.0	18023.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.1	1.6
10°-20°	858.0	4.8
20°-30°	1476.1	8.2
30°-40°	2238.7	12.4
40°-50°	3279.8	18.2
50°-60°	4141.6	23.0
60°-70°	3883.6	21.5
70°-80°	1730.9	9.6
80°-90°	128.2	0.7
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°	18023.0	100.0
0°-180°	18023.0	100.0

Coefficient of Utilization



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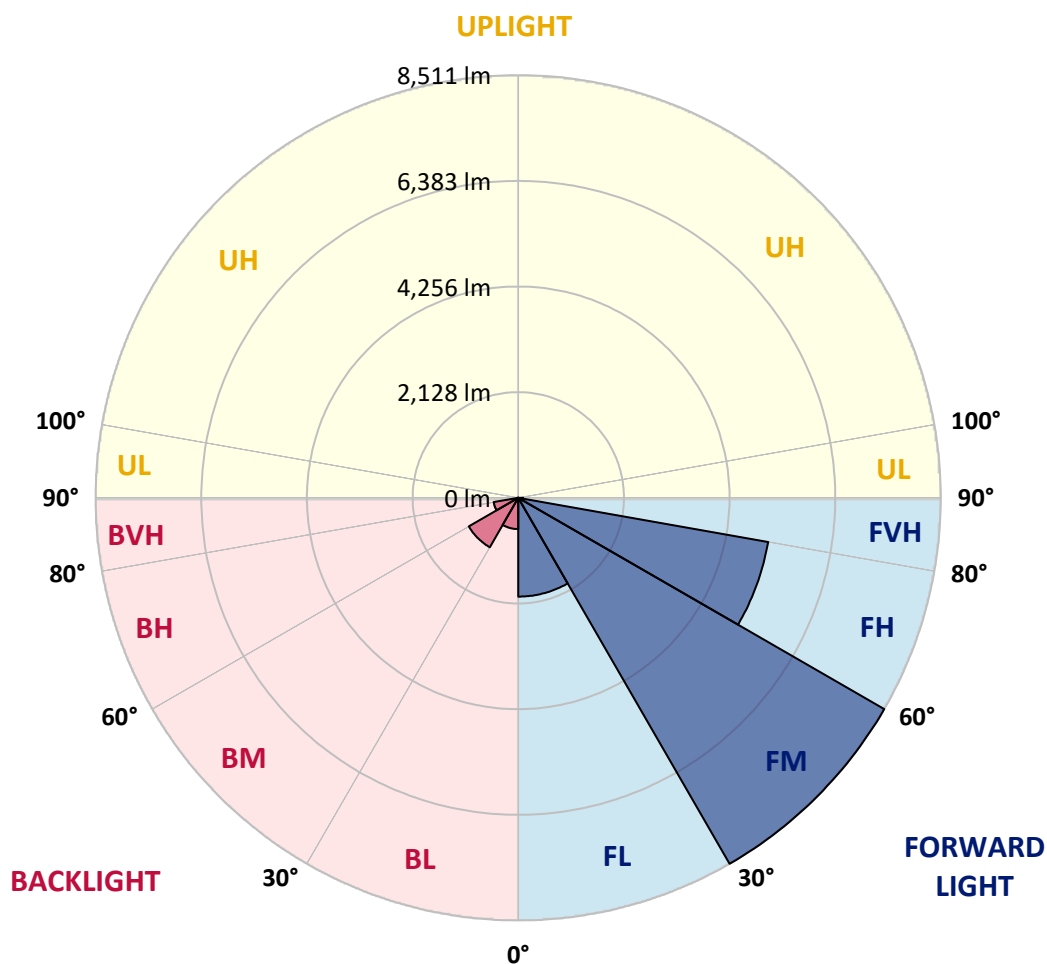
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1990.4	11.0			
FM	(30°-60°)	8511.2	47.2			
FH	(60°-80°)	5111.8	28.4			G3/7500
FVH	(80°-90°)	95.8	0.5			G1/100
BL	(0°-30°)	629.8	3.5	B2/1000		
BM	(30°-60°)	1149.0	6.4	B2/2500		
BH	(60°-80°)	502.6	2.8	B2/1000		G2/1000
BVH	(80°-90°)	32.5	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0
2.5°	3542.3	3530.9	3523.3	3481.5	3481.5	3424.5	3428.3	3375.1	3310.5	3207.9	3097.6
5°	3876.8	3861.6	3842.6	3800.8	3785.6	3728.6	3721.0	3644.9	3534.7	3356.1	3158.4
7.5°	4169.4	4154.2	4127.6	4066.8	4025.0	3956.6	3937.6	3838.8	3717.2	3496.7	3219.3
10°	4435.5	4424.1	4389.9	4313.9	4256.9	4173.2	4139.0	4006.0	3854.0	3610.7	3268.7
12.5°	4705.4	4690.2	4644.5	4579.9	4511.5	4412.7	4370.9	4199.9	4006.0	3736.2	3340.9
15°	4956.2	4933.4	4899.2	4830.8	4770.0	4675.0	4629.3	4427.9	4192.3	3876.8	3435.9
17.5°	5119.6	5100.6	5070.2	5032.2	4982.8	4910.6	4865.0	4667.3	4378.5	4013.6	3534.7
20°	5218.5	5210.9	5199.5	5176.7	5153.8	5104.4	5070.2	4884.0	4579.9	4146.6	3629.7
22.5°	5294.5	5286.9	5283.1	5283.1	5286.9	5267.9	5245.1	5085.4	4773.8	4287.3	3717.2
25°	5412.3	5408.5	5400.9	5393.3	5419.9	5423.7	5416.1	5305.9	5017.0	4473.5	3827.4
27.5°	5575.7	5564.3	5549.1	5541.5	5568.1	5587.1	5602.3	5526.3	5275.5	4663.5	3952.8
30°	5826.6	5792.4	5754.4	5727.8	5746.8	5777.2	5811.4	5765.8	5541.5	4899.2	4082.0
32.5°	6123.0	6081.2	5993.8	5944.4	5993.8	6016.6	6043.2	6020.4	5819.0	5153.8	4211.3
35°	6484.1	6434.7	6343.5	6271.3	6358.7	6309.3	6297.9	6275.1	6081.2	5404.7	4355.7
37.5°	7084.6	7012.4	6868.0	6708.4	6708.4	6601.9	6560.1	6491.7	6316.9	5628.9	4496.3
40°	7780.2	7685.2	7498.9	7263.3	7046.6	6826.2	6799.6	6750.2	6594.3	5887.4	4655.9
42.5°	8544.1	8361.7	8103.2	7818.2	7468.5	7217.7	7156.9	7016.2	6864.2	6149.7	4815.6
45°	9391.7	9011.6	8635.4	8490.9	7913.2	7685.2	7571.1	7316.5	7145.5	6423.3	4982.8
47.5°	9528.5	9232.1	8981.2	8958.4	8327.5	8137.5	8008.2	7643.4	7449.5	6716.0	5157.6
50°	9452.5	9273.9	9300.5	9209.3	8631.6	8506.1	8407.3	7993.0	7749.8	6997.2	5317.3
52.5°	9133.3	9232.1	9384.1	9216.9	8920.4	8817.8	8768.4	8369.3	8031.0	7255.7	5461.7
55°	8753.2	8821.6	9148.5	9353.7	9254.9	9163.7	9118.1	8806.4	8308.5	7472.3	5594.7
57.5°	8198.3	8167.9	8528.9	9330.9	9604.6	9551.3	9501.9	9235.9	8566.9	7628.2	5678.4
60°	7365.9	7301.3	7757.4	8874.8	9718.6	9802.2	9779.4	9520.9	8764.6	7624.4	5644.1
62.5°	5925.4	6085.0	6716.0	8129.9	9768.0	9980.8	9939.0	9543.7	8829.2	7403.9	5427.5
65°	4405.1	4633.1	5252.7	7103.6	9699.6	10072.0	9958.0	9171.3	8528.9	6966.8	4952.4
67.5°	3173.6	3375.1	3827.4	5845.6	9042.0	9654.0	9520.9	8563.1	7837.2	6347.3	4294.9
70°	2170.2	2314.7	2622.5	4256.9	7719.4	8346.5	8262.9	7654.8	6746.4	5609.9	3489.1
72.5°	1531.7	1592.5	1790.2	2808.8	5864.6	6548.7	6449.9	6297.9	5419.9	4663.5	2713.8
75°	1147.8	1185.8	1292.3	1816.8	3956.6	4538.1	4446.9	4534.3	4047.8	3530.9	1976.4
77.5°	433.3	471.3	733.5	1159.2	2341.3	2786.0	2694.7	2748.0	2250.1	1782.6	984.4
80°	117.8	125.4	243.2	551.1	1064.2	1387.3	1261.9	1083.2	836.2	821.0	520.7
82.5°	49.4	57.0	110.2	296.5	380.1	380.1	319.3	395.3	319.3	383.9	250.9
85°	19.0	22.8	26.6	76.0	49.4	53.2	57.0	76.0	64.6	79.8	57.0
87.5°	0.0	0.0	0.0	3.8	3.8	7.6	3.8	7.6	11.4	11.4	11.4
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°	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0
2.5°	3052.0	3010.2	2949.4	2850.6	2748.0	2690.9	2618.7	2607.3	2531.3	2523.7	2493.3
5°	3071.0	2983.6	2827.8	2637.7	2451.5	2307.1	2200.6	2143.6	2033.4	2033.4	2003.0
7.5°	3086.2	2949.4	2698.5	2417.3	2162.6	1968.8	1824.4	1763.6	1664.7	1657.1	1634.3
10°	3090.0	2907.6	2557.9	2193.0	1881.4	1683.7	1543.1	1474.7	1387.3	1379.7	1364.5
12.5°	3120.4	2884.8	2432.5	1999.2	1679.9	1467.1	1330.3	1273.3	1204.8	1197.2	1182.0
15°	3169.8	2884.8	2326.1	1835.8	1501.3	1303.7	1185.8	1132.6	1083.2	1075.6	1068.0
17.5°	3219.3	2877.2	2219.7	1683.7	1353.1	1174.4	1071.8	1030.0	992.0	988.2	980.6
20°	3264.9	2873.4	2113.2	1554.5	1239.1	1068.0	988.2	950.2	919.8	919.8	916.0
22.5°	3310.5	2865.8	2010.6	1432.9	1140.2	988.2	919.8	878.0	855.2	855.2	851.4
25°	3378.9	2865.8	1915.6	1330.3	1060.4	927.4	859.0	828.6	809.6	805.8	805.8
27.5°	3458.7	2888.6	1832.0	1239.1	992.0	866.6	813.4	783.0	760.2	752.6	756.4
30°	3546.1	2907.6	1756.0	1159.2	927.4	821.0	764.0	733.5	710.7	703.1	706.9
32.5°	3633.5	2930.4	1687.5	1087.0	862.8	779.2	722.1	687.9	665.1	661.3	661.3
35°	3728.6	2953.2	1619.1	1026.2	809.6	737.4	684.1	646.1	630.9	623.3	627.1
37.5°	3823.6	2991.2	1554.5	969.2	771.6	699.3	649.9	611.9	600.5	596.7	596.7
40°	3937.6	3048.2	1527.9	931.2	737.4	665.1	623.3	585.3	573.9	573.9	573.9
42.5°	4032.6	3093.8	1505.1	889.4	710.7	634.7	596.7	566.3	558.7	554.9	558.7
45°	4127.6	3135.6	1474.7	851.4	676.5	604.3	573.9	543.5	535.9	535.9	535.9
47.5°	4222.7	3158.4	1432.9	813.4	646.1	577.7	551.1	524.5	516.9	516.9	516.9
50°	4298.7	3177.4	1372.1	771.6	611.9	554.9	528.3	501.7	494.1	494.1	494.1
52.5°	4374.7	3181.2	1307.5	722.1	577.7	528.3	505.5	478.9	471.3	467.5	467.5
55°	4443.1	3177.4	1231.5	665.1	539.7	497.9	478.9	456.1	440.9	425.7	433.3
57.5°	4492.5	3173.6	1144.0	608.1	501.7	467.5	459.9	429.5	399.1	361.1	368.7
60°	4473.5	3131.8	1049.0	535.9	459.9	437.1	437.1	395.3	342.1	323.1	326.9
62.5°	4351.9	3014.0	950.2	459.9	418.1	406.7	402.9	357.3	315.5	296.5	300.3
65°	3987.0	2717.6	805.8	391.5	376.3	372.5	372.5	330.7	292.7	269.9	273.7
67.5°	3432.1	2280.5	657.5	330.7	334.5	342.1	342.1	304.1	266.1	243.2	247.1
70°	2751.8	1782.6	524.5	285.1	288.9	300.3	307.9	273.7	239.4	216.6	216.6
72.5°	2071.4	1353.1	421.9	239.4	258.5	258.5	269.9	243.2	209.0	186.2	190.0
75°	1501.3	969.2	334.5	201.4	224.2	220.4	220.4	205.2	178.6	163.4	163.4
77.5°	710.7	509.3	266.1	144.4	174.8	171.0	174.8	163.4	152.0	136.8	140.6
80°	349.7	250.9	171.0	102.6	121.6	125.4	136.8	129.2	125.4	114.0	114.0
82.5°	167.2	98.8	79.8	72.2	83.6	87.4	95.0	95.0	98.8	91.2	91.2
85°	45.6	26.6	34.2	45.6	53.2	57.0	64.6	68.4	68.4	64.6	68.4
87.5°	11.4	11.4	15.2	22.8	26.6	30.4	34.2	34.2	15.2	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)