

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: P836461

Luminaire Tested: **ARCH3-190-727-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16365 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 189.4
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



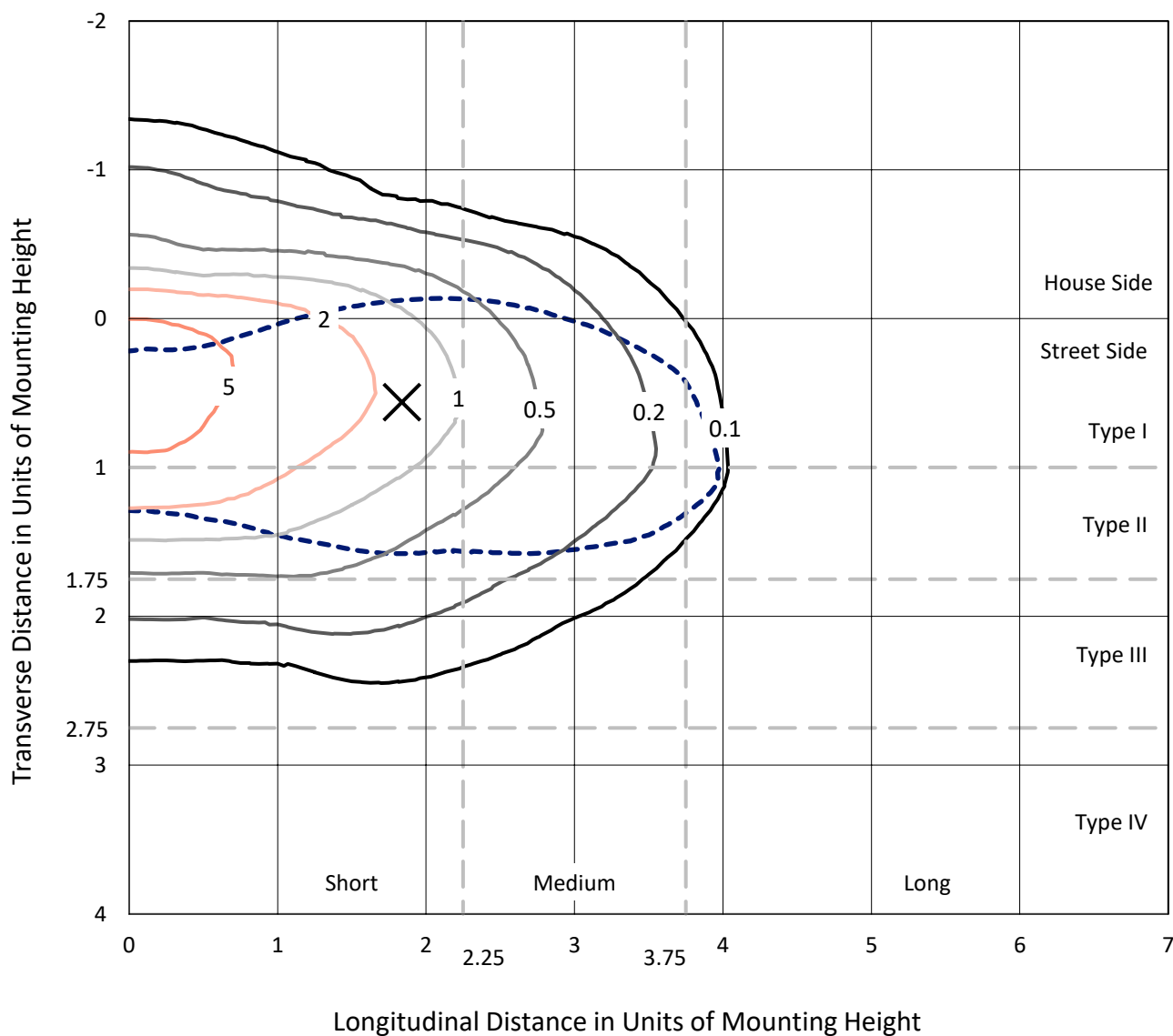
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

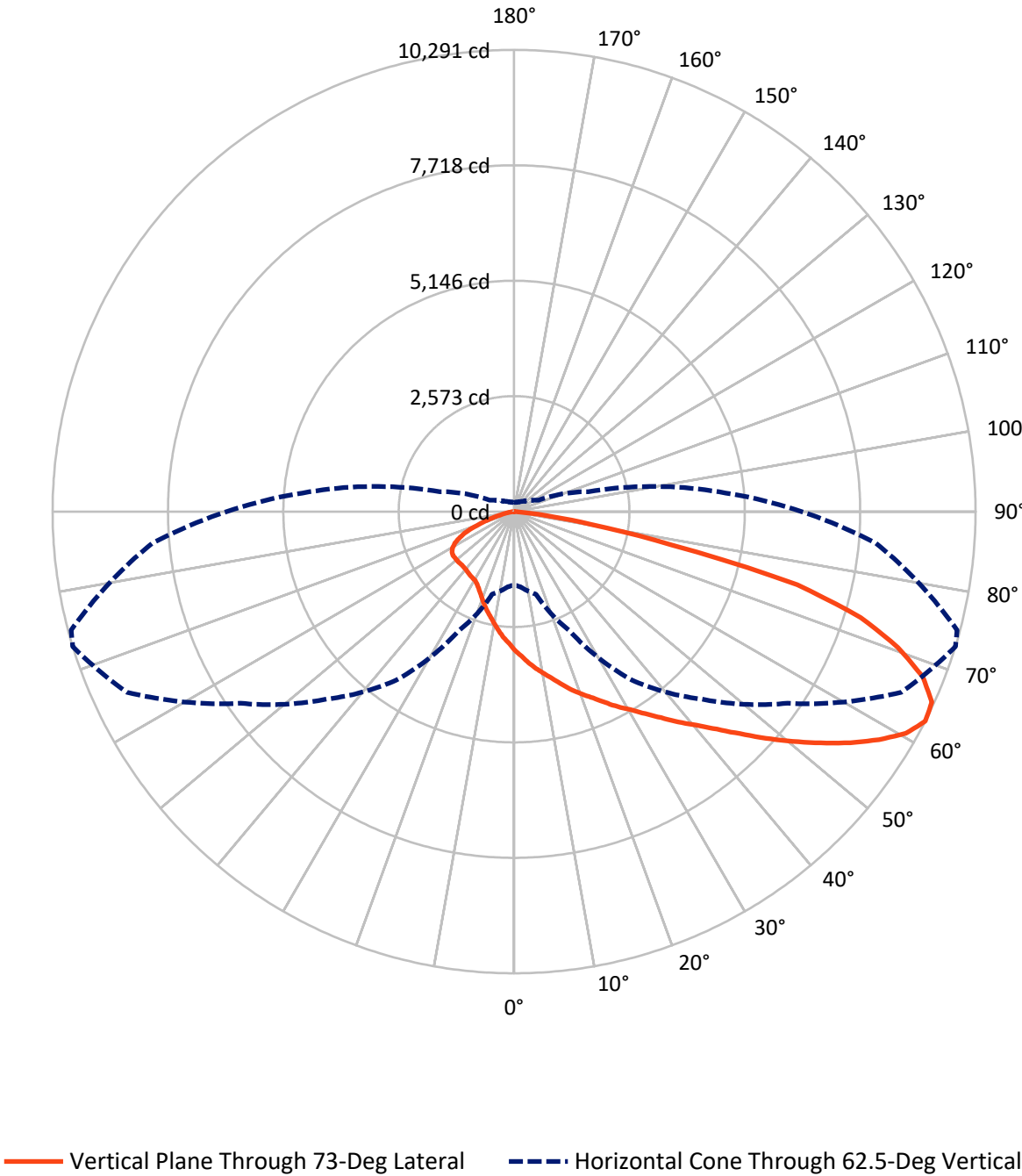


Based on 25 foot mounting height. Maximum calculated value = 7.8 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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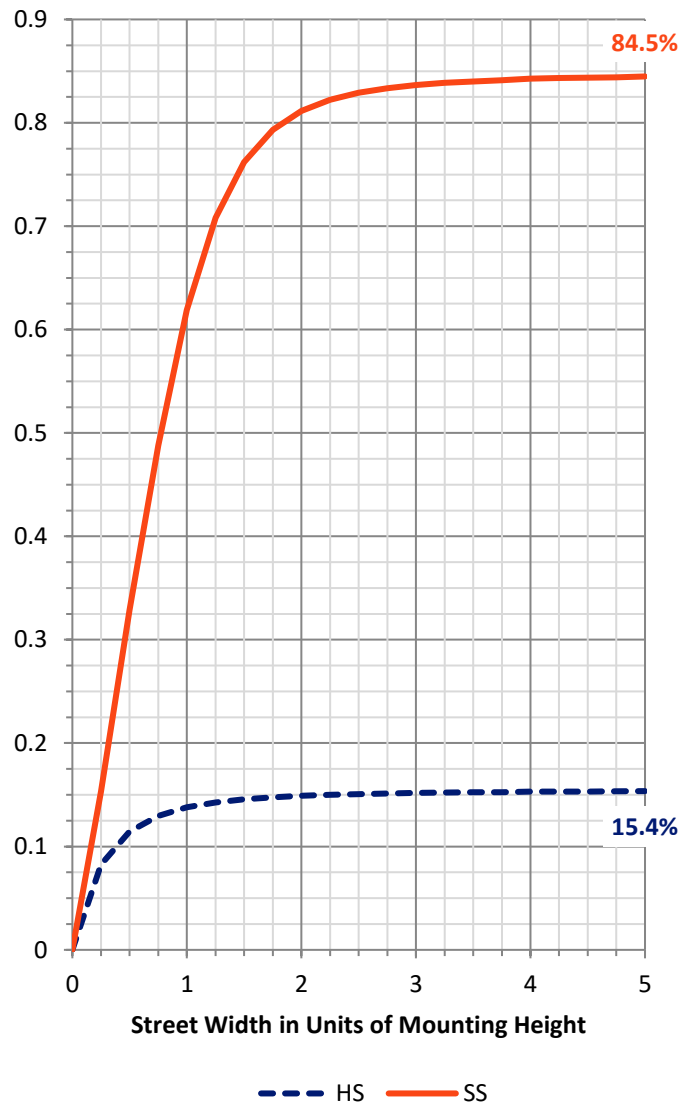
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2536.8	0.0	2536.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	13828.2	0.0	13828.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	16365.0	0.0	16365.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.4	1.8
10°-20°	903.3	5.5
20°-30°	1503.6	9.2
30°-40°	2268.7	13.9
40°-50°	3171.1	19.4
50°-60°	3502.6	21.4
60°-70°	3051.3	18.6
70°-80°	1541.3	9.4
80°-90°	123.7	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°	16365.0	100.0
0°-180°	16365.0	100.0

Coefficient of Utilization



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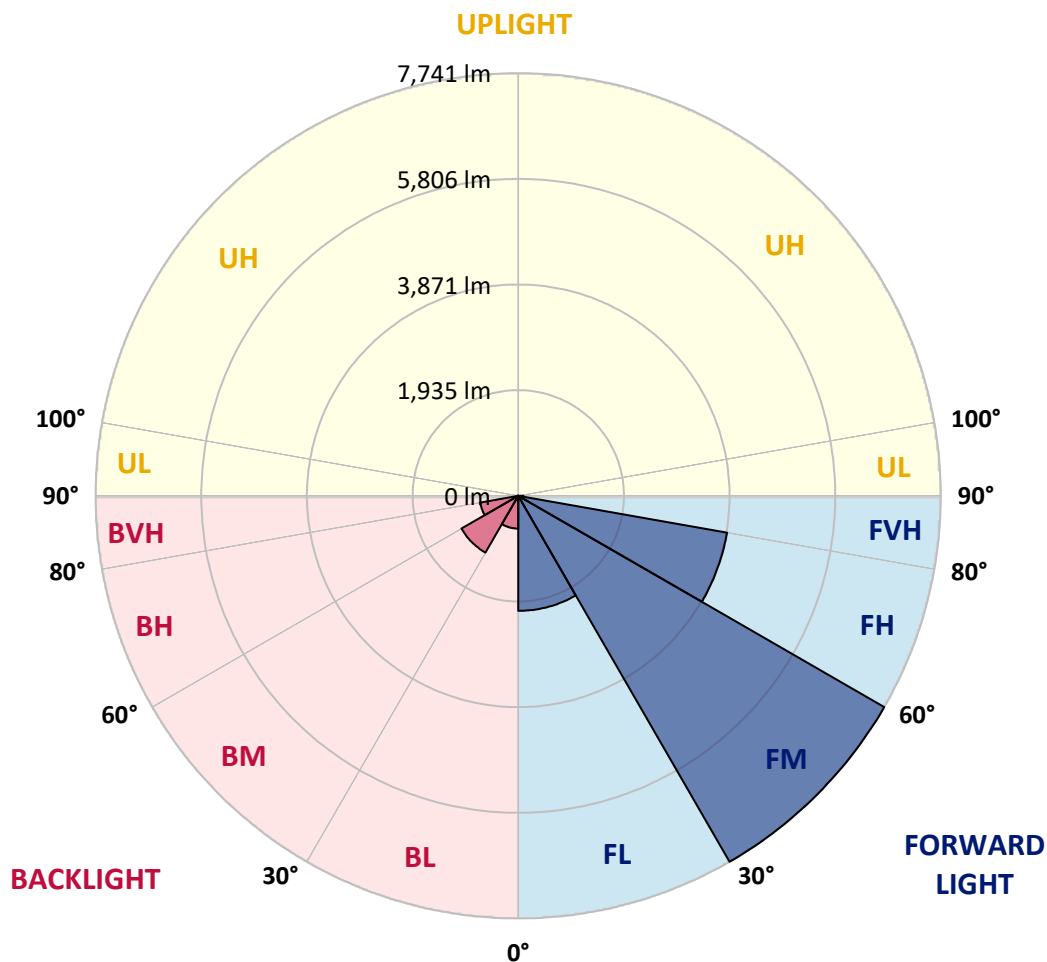
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2106.7	12.9			
FM	(30°-60°)	7741.2	47.3			
FH	(60°-80°)	3884.5	23.7			G2/5000
FVH	(80°-90°)	95.7	0.6			G1/100
BL	(0°-30°)	599.6	3.7	B2/1000		
BM	(30°-60°)	1201.2	7.3	B2/2500		
BH	(60°-80°)	708.1	4.3	B2/1000		G2/1000
BVH	(80°-90°)	28.0	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°	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7
2.5°	3526.7	3565.9	3544.5	3558.7	3487.4	3441.1	3387.6	3284.2	3227.1	3220.0	3152.2
5°	4043.7	4086.5	4050.8	4040.1	3915.3	3808.4	3687.1	3505.3	3384.0	3362.6	3212.9
7.5°	4560.8	4600.0	4557.2	4525.1	4357.5	4168.5	3990.2	3722.8	3533.8	3498.1	3262.8
10°	4924.5	4960.1	4928.0	4895.9	4721.2	4528.7	4275.5	3926.0	3669.3	3612.2	3294.9
12.5°	5199.0	5220.4	5206.2	5177.7	5013.6	4806.8	4564.3	4154.2	3822.6	3751.3	3344.8
15°	5423.7	5459.4	5441.5	5420.1	5263.2	5056.4	4824.6	4393.2	4000.9	3911.8	3419.7
17.5°	5573.5	5598.4	5602.0	5602.0	5462.9	5259.7	5035.0	4610.7	4179.2	4065.1	3491.0
20°	5641.2	5669.7	5687.6	5716.1	5602.0	5427.3	5199.0	4796.1	4346.8	4218.4	3558.7
22.5°	5673.3	5698.3	5744.6	5808.8	5716.1	5569.9	5359.5	4967.3	4514.4	4378.9	3637.2
25°	5698.3	5730.4	5798.1	5919.4	5855.2	5730.4	5548.5	5163.4	4714.1	4575.0	3751.3
27.5°	5766.0	5805.2	5869.4	6015.6	5937.2	5876.6	5748.2	5373.8	4924.5	4781.8	3890.4
30°	6001.4	6033.5	6029.9	6122.6	6026.3	6008.5	5919.4	5577.0	5127.7	4985.1	4054.4
32.5°	6429.3	6461.4	6382.9	6347.3	6136.9	6140.4	6104.8	5794.6	5370.2	5224.0	4243.4
35°	6889.3	6924.9	6821.5	6760.9	6407.9	6304.5	6322.3	6065.6	5641.2	5495.0	4478.7
37.5°	7299.4	7342.1	7253.0	7163.8	6807.3	6568.3	6564.8	6368.7	5951.4	5801.7	4739.1
40°	7524.0	7573.9	7627.4	7577.5	7203.1	6939.2	6825.1	6678.9	6258.1	6104.8	5020.8
42.5°	7631.0	7770.0	7866.3	7834.2	7527.6	7260.1	7124.6	7003.4	6632.5	6482.8	5355.9
45°	7331.4	7335.0	7538.3	7713.0	7655.9	7477.6	7452.7	7367.1	7060.4	6917.8	5733.9
47.5°	6957.0	6928.5	7071.1	7381.4	7541.8	7588.2	7734.4	7770.0	7549.0	7406.3	6119.0
50°	6058.4	6076.3	6539.8	6985.6	7299.4	7598.9	7934.1	8183.7	8051.8	7916.2	6525.6
52.5°	4928.0	4970.8	5502.1	6482.8	6978.4	7491.9	8051.8	8597.3	8565.2	8436.9	6932.1
55°	3951.0	4018.7	4582.2	5644.8	6568.3	7253.0	8101.7	8975.3	9096.6	8978.9	7331.4
57.5°	3020.3	3091.6	3565.9	4657.0	6044.2	6864.3	8066.0	9306.9	9592.2	9517.3	7698.7
60°	2275.0	2346.3	2649.4	3776.3	5388.0	6429.3	7887.7	9524.5	10037.9	9959.5	7966.2
62.5°	1629.6	1686.7	1911.3	2938.3	4589.3	5912.2	7449.1	9528.0	10291.1	10226.9	8094.5
65°	1173.2	1173.2	1355.0	2096.7	3840.4	5291.8	6785.9	9089.4	10237.6	10219.8	8005.4
67.5°	845.1	852.2	998.4	1465.6	3063.1	4539.4	5926.5	8308.5	9824.0	9913.1	7684.5
70°	599.1	616.9	684.6	1023.4	2314.3	3583.7	5006.5	7285.1	9078.7	9235.6	7064.0
72.5°	463.6	474.3	520.6	713.2	1690.2	2663.7	3990.2	6144.0	8083.8	8262.1	6218.9
75°	356.6	367.3	402.9	524.2	1212.4	1868.5	2834.9	4767.6	6518.4	6835.8	4995.8
77.5°	260.3	274.6	299.5	381.5	706.0	1187.4	1718.8	2681.5	3598.0	3747.7	2617.4
80°	121.2	139.1	174.7	246.0	381.5	559.8	609.8	1034.1	1729.5	1807.9	1419.2
82.5°	67.8	85.6	99.8	149.8	192.6	199.7	206.8	260.3	652.6	720.3	595.5
85°	32.1	42.8	46.4	64.2	64.2	57.1	67.8	49.9	107.0	128.4	124.8
87.5°	0.0	3.6	7.1	17.8	14.3	10.7	10.7	10.7	10.7	14.3	10.7
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°	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7
2.5°	3120.1	3073.8	2966.8	2874.1	2813.5	2760.0	2688.7	2656.6	2599.5	2610.2	2578.1
5°	3138.0	3052.4	2863.4	2688.7	2560.3	2446.2	2321.4	2250.1	2171.6	2164.5	2139.5
7.5°	3148.7	3016.7	2745.7	2499.7	2303.6	2128.8	1961.2	1868.5	1772.2	1750.8	1729.5
10°	3138.0	2963.2	2624.5	2303.6	2043.2	1825.7	1636.7	1519.1	1419.2	1394.3	1372.9
12.5°	3148.7	2934.7	2510.4	2121.7	1811.5	1565.4	1351.5	1230.2	1137.5	1112.6	1098.3
15°	3173.6	2916.9	2414.1	1957.7	1604.6	1330.1	1119.7	1016.3	941.4	916.4	909.3
17.5°	3195.0	2899.1	2310.7	1797.2	1397.8	1123.3	941.4	855.8	791.6	766.7	759.5
20°	3223.6	2874.1	2207.3	1643.9	1216.0	959.2	798.8	723.9	674.0	656.1	652.6
22.5°	3248.5	2856.3	2111.0	1490.5	1048.4	827.3	691.8	631.2	595.5	577.7	577.7
25°	3312.7	2863.4	2029.0	1347.9	923.6	723.9	609.8	563.4	534.9	524.2	524.2
27.5°	3387.6	2891.9	1964.8	1226.7	816.6	645.4	552.7	513.5	499.2	485.0	488.5
30°	3494.6	2949.0	1922.0	1126.8	738.1	584.8	506.4	477.8	463.6	460.0	460.0
32.5°	3630.1	3041.7	1918.4	1062.6	681.1	538.4	474.3	449.3	442.2	438.6	438.6
35°	3790.5	3123.7	1897.0	1034.1	645.4	506.4	449.3	431.5	427.9	427.9	427.9
37.5°	3983.1	3259.2	1882.8	994.9	627.6	488.5	431.5	417.2	417.2	417.2	417.2
40°	4182.8	3369.8	1861.4	959.2	620.5	477.8	420.8	402.9	402.9	402.9	402.9
42.5°	4421.7	3530.2	1854.3	941.4	609.8	470.7	406.5	385.1	388.7	388.7	392.2
45°	4710.5	3712.1	1850.7	923.6	606.2	463.6	392.2	367.3	370.9	367.3	367.3
47.5°	5002.9	3922.5	1861.4	912.9	602.6	456.4	381.5	349.5	349.5	345.9	345.9
50°	5309.6	4115.0	1868.5	902.2	595.5	442.2	363.7	335.2	328.1	320.9	324.5
52.5°	5598.4	4293.3	1872.1	884.3	574.1	420.8	349.5	317.4	306.7	296.0	299.5
55°	5887.3	4464.5	1879.2	862.9	545.6	399.4	331.6	299.5	285.3	271.0	271.0
57.5°	6147.6	4614.2	1861.4	809.5	513.5	378.0	313.8	278.1	256.7	242.5	242.5
60°	6325.9	4721.2	1807.9	731.0	470.7	353.0	296.0	256.7	231.8	221.1	221.1
62.5°	6411.4	4739.1	1711.6	602.6	417.2	328.1	274.6	235.3	214.0	206.8	206.8
65°	6329.4	4660.6	1561.9	452.9	360.2	299.5	253.2	217.5	196.1	178.3	178.3
67.5°	6044.2	4439.5	1355.0	342.3	306.7	271.0	231.8	199.7	174.7	160.5	160.5
70°	5470.1	3979.5	1048.4	274.6	260.3	235.3	210.4	178.3	156.9	139.1	139.1
72.5°	4717.7	3373.3	738.1	221.1	221.1	199.7	178.3	156.9	135.5	121.2	121.2
75°	3619.4	2496.1	495.7	178.3	181.9	167.6	146.2	128.4	114.1	103.4	103.4
77.5°	1975.5	1233.8	303.1	131.9	135.5	128.4	114.1	103.4	96.3	85.6	85.6
80°	959.2	542.0	174.7	92.7	96.3	92.7	85.6	74.9	74.9	67.8	67.8
82.5°	402.9	203.3	92.7	64.2	64.2	57.1	53.5	53.5	53.5	49.9	49.9
85°	99.8	39.2	39.2	35.7	35.7	35.7	32.1	32.1	32.1	25.0	28.5
87.5°	14.3	14.3	14.3	14.3	14.3	14.3	10.7	3.6	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)