

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: P841363

Luminaire Tested: **ARCH4-170-722-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841363
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: ARCH4-170-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1380mA 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: 16684 lumens
Efficiency: N/A
Efficacy: 98.3 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

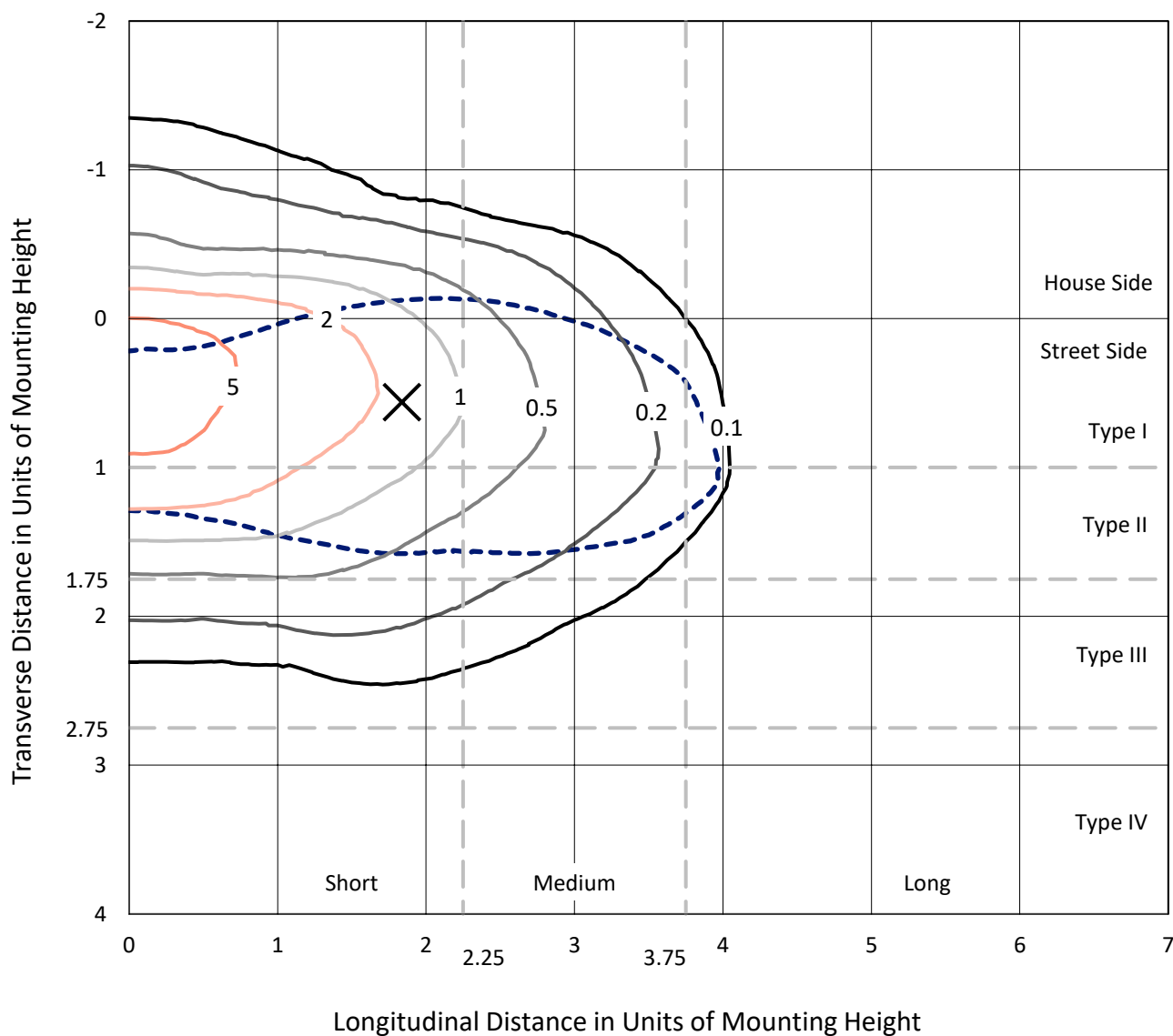
Input Watts (W): 169.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

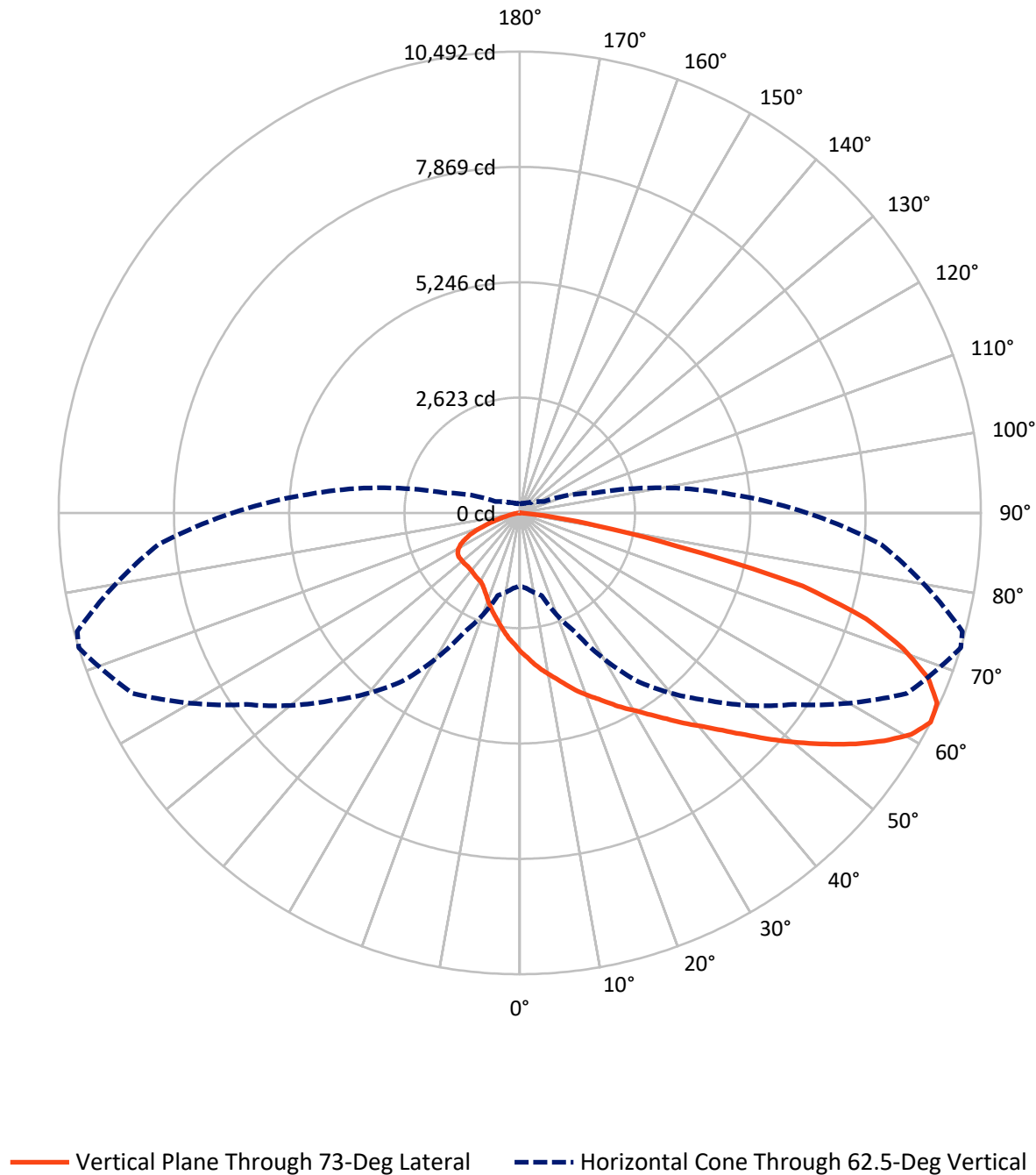
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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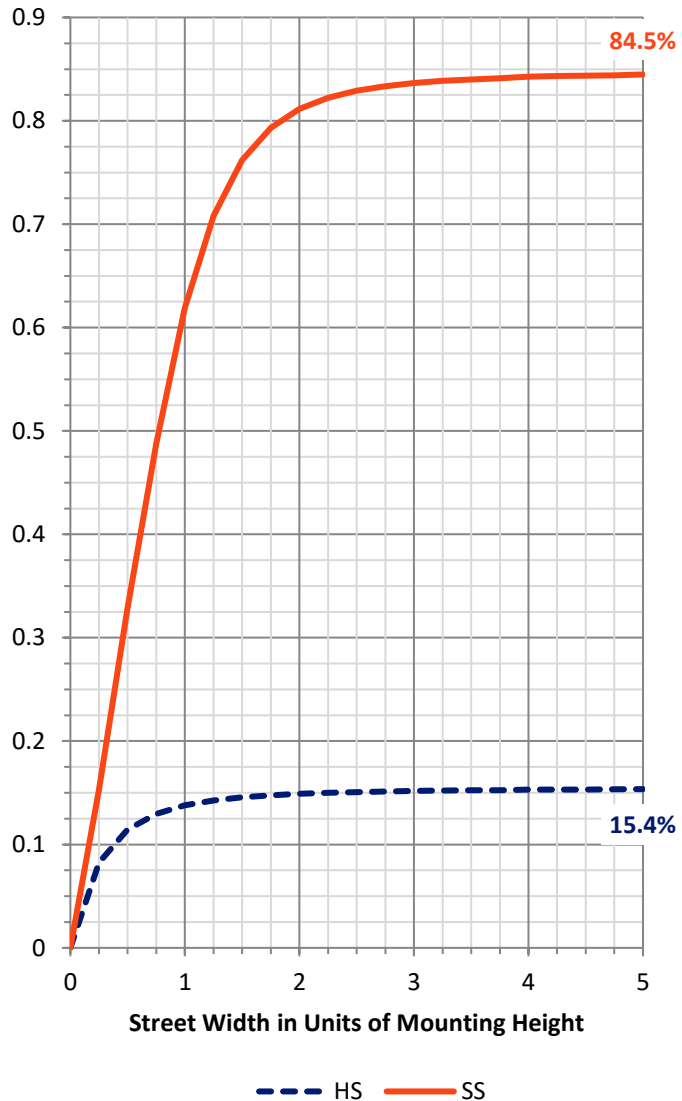
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2586.3	0.0	2586.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	14097.7	0.0	14097.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	16684.0	0.0	16684.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.2	1.8
10°-20°	920.9	5.5
20°-30°	1532.9	9.2
30°-40°	2312.9	13.9
40°-50°	3232.9	19.4
50°-60°	3570.9	21.4
60°-70°	3110.7	18.6
70°-80°	1571.4	9.4
80°-90°	126.1	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°	16684.0	100.0
0°-180°	16684.0	100.0

Coefficient of Utilization



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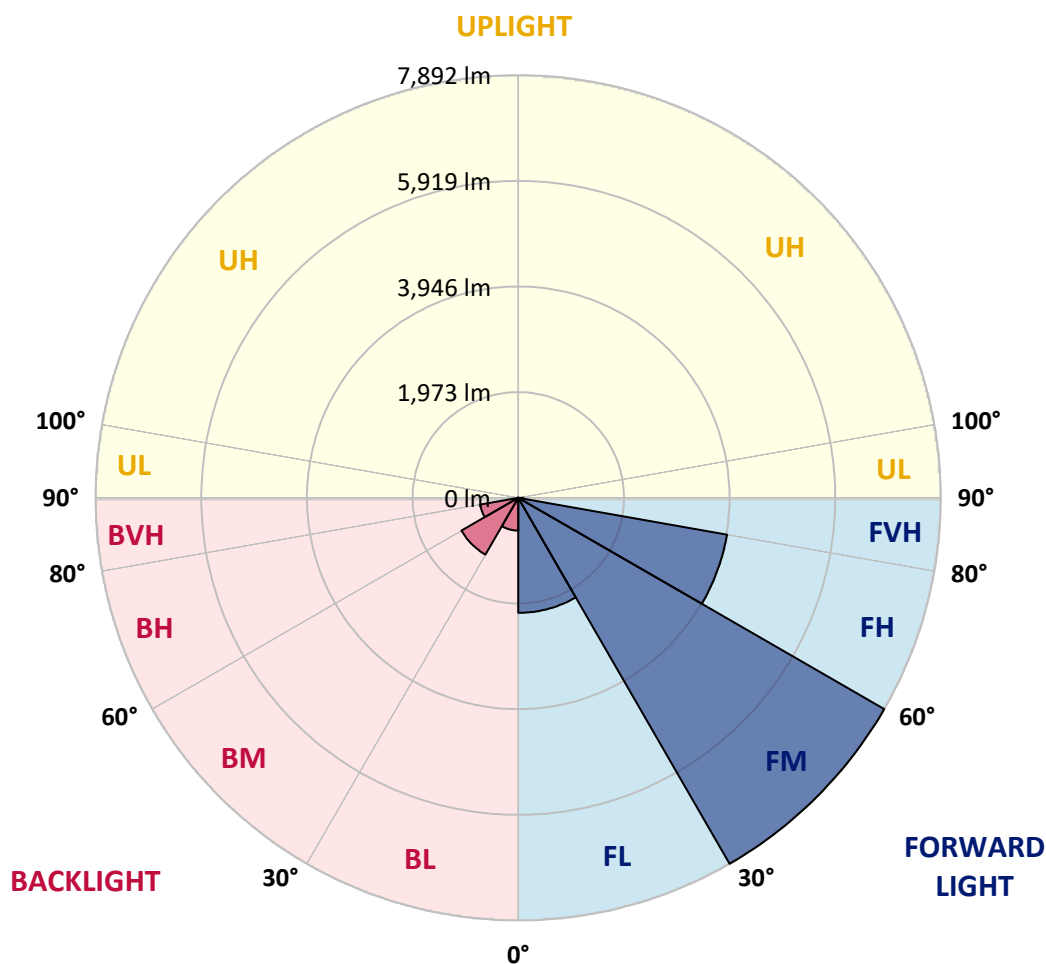
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2147.7	12.9			
FM	(30°-60°)	7892.1	47.3			
FH	(60°-80°)	3960.2	23.7			G2/5000
FVH	(80°-90°)	97.6	0.6			G1/100
BL	(0°-30°)	611.3	3.7	B2/1000		
BM	(30°-60°)	1224.6	7.3	B2/2500		
BH	(60°-80°)	721.9	4.3	B2/1000		G2/1000
BVH	(80°-90°)	28.5	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°	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2
2.5°	3595.4	3635.4	3613.6	3628.1	3555.4	3508.1	3453.6	3348.2	3290.0	3282.8	3213.7
5°	4122.5	4166.2	4129.8	4118.9	3991.7	3882.6	3759.0	3573.6	3450.0	3428.2	3275.5
7.5°	4649.7	4689.6	4646.0	4613.3	4442.4	4249.8	4068.0	3795.3	3602.7	3566.3	3326.4
10°	5020.5	5056.8	5024.1	4991.4	4813.3	4616.9	4358.8	4002.6	3740.8	3682.6	3359.1
12.5°	5300.4	5322.2	5307.7	5278.6	5111.4	4900.5	4653.3	4235.2	3897.1	3824.4	3410.0
15°	5529.4	5565.8	5547.6	5525.8	5365.8	5155.0	4918.7	4478.8	4078.9	3988.0	3486.3
17.5°	5682.1	5707.6	5711.2	5711.2	5569.4	5362.2	5133.2	4700.6	4260.7	4144.3	3559.0
20°	5751.2	5780.3	5798.4	5827.5	5711.2	5533.1	5300.4	4889.6	4431.5	4300.7	3628.1
22.5°	5783.9	5809.3	5856.6	5922.0	5827.5	5678.5	5464.0	5064.1	4602.4	4464.3	3708.1
25°	5809.3	5842.1	5911.1	6034.7	5969.3	5842.1	5656.7	5264.0	4806.0	4664.2	3824.4
27.5°	5878.4	5918.4	5983.8	6132.9	6052.9	5991.1	5860.2	5478.5	5020.5	4875.1	3966.2
30°	6118.4	6151.1	6147.4	6242.0	6143.8	6125.6	6034.7	5685.7	5227.7	5082.3	4133.4
32.5°	6554.6	6587.3	6507.3	6471.0	6256.5	6260.1	6223.8	5907.5	5474.9	5325.8	4326.1
35°	7023.6	7059.9	6954.5	6892.7	6532.8	6427.4	6445.5	6183.8	5751.2	5602.1	4566.0
37.5°	7441.6	7485.3	7394.4	7303.5	6940.0	6696.4	6692.7	6492.8	6067.5	5914.8	4831.4
40°	7670.7	7721.6	7776.1	7725.2	7343.5	7074.5	6958.1	6809.1	6380.1	6223.8	5118.6
42.5°	7779.7	7921.5	8019.7	7986.9	7674.3	7401.6	7263.5	7139.9	6761.8	6609.1	5460.4
45°	7474.4	7478.0	7685.2	7863.3	7805.2	7623.4	7598.0	7510.7	7198.1	7052.6	5845.7
47.5°	7092.6	7063.6	7209.0	7525.2	7688.8	7736.1	7885.2	7921.5	7696.1	7550.7	6238.3
50°	6176.5	6194.7	6667.3	7121.7	7441.6	7747.0	8088.7	8343.2	8208.7	8070.6	6652.8
52.5°	5024.1	5067.7	5609.4	6609.1	7114.5	7637.9	8208.7	8764.9	8732.2	8601.3	7067.2
55°	4028.0	4097.1	4671.5	5754.8	6696.4	7394.4	8259.6	9150.3	9273.9	9153.9	7474.4
57.5°	3079.2	3151.9	3635.4	4747.8	6162.0	6998.1	8223.2	9488.4	9779.2	9702.8	7848.8
60°	2319.4	2392.1	2701.1	3849.9	5493.1	6554.6	8041.5	9710.1	10233.6	10153.6	8121.5
62.5°	1661.4	1719.5	1948.6	2995.6	4678.7	6027.5	7594.3	9713.8	10491.7	10426.3	8252.3
65°	1196.0	1196.0	1381.4	2137.6	3915.3	5394.9	6918.1	9266.6	10437.2	10419.0	8161.4
67.5°	861.6	868.9	1017.9	1494.1	3122.8	4627.8	6042.0	8470.5	10015.5	10106.4	7834.3
70°	610.7	628.9	698.0	1043.4	2359.4	3653.6	5104.1	7427.1	9255.7	9415.7	7201.7
72.5°	472.6	483.5	530.8	727.1	1723.2	2715.6	4068.0	6263.8	8241.4	8423.2	6340.1
75°	363.5	374.4	410.8	534.4	1236.0	1904.9	2890.1	4860.5	6645.5	6969.0	5093.2
77.5°	265.4	279.9	305.4	389.0	719.8	1210.6	1752.3	2733.8	3668.1	3820.8	2668.4
80°	123.6	141.8	178.1	250.8	389.0	570.8	621.7	1054.3	1763.2	1843.1	1446.9
82.5°	69.1	87.2	101.8	152.7	196.3	203.6	210.9	265.4	665.3	734.3	607.1
85°	32.7	43.6	47.3	65.4	65.4	58.2	69.1	50.9	109.1	130.9	127.2
87.5°	0.0	3.6	7.3	18.2	14.5	10.9	10.9	10.9	10.9	14.5	10.9
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°	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2
2.5°	3181.0	3133.7	3024.6	2930.1	2868.3	2813.8	2741.1	2708.4	2650.2	2661.1	2628.4
5°	3199.1	3111.9	2919.2	2741.1	2610.2	2493.9	2366.6	2293.9	2214.0	2206.7	2181.2
7.5°	3210.0	3075.5	2799.2	2548.4	2348.5	2170.3	1999.5	1904.9	1806.8	1785.0	1763.2
10°	3199.1	3021.0	2675.6	2348.5	2083.1	1861.3	1668.6	1548.7	1446.9	1421.4	1399.6
12.5°	3210.0	2991.9	2559.3	2163.1	1846.8	1595.9	1377.8	1254.2	1159.7	1134.2	1119.7
15°	3235.5	2973.7	2461.2	1995.8	1635.9	1356.0	1141.5	1036.1	959.7	934.3	927.0
17.5°	3257.3	2955.6	2355.7	1832.2	1425.1	1145.1	959.7	872.5	807.1	781.6	774.3
20°	3286.4	2930.1	2250.3	1675.9	1239.7	977.9	814.3	738.0	687.1	668.9	665.3
22.5°	3311.8	2911.9	2152.1	1519.6	1068.8	843.4	705.3	643.5	607.1	588.9	588.9
25°	3377.3	2919.2	2068.5	1374.2	941.6	738.0	621.7	574.4	545.3	534.4	534.4
27.5°	3453.6	2948.3	2003.1	1250.6	832.5	658.0	563.5	523.5	509.0	494.4	498.0
30°	3562.7	3006.5	1959.5	1148.8	752.5	596.2	516.2	487.1	472.6	469.0	469.0
32.5°	3700.8	3101.0	1955.8	1083.3	694.4	548.9	483.5	458.1	450.8	447.2	447.2
35°	3864.4	3184.6	1934.0	1054.3	658.0	516.2	458.1	439.9	436.2	436.2	436.2
37.5°	4060.7	3322.7	1919.5	1014.3	639.8	498.0	439.9	425.3	425.3	425.3	425.3
40°	4264.3	3435.4	1897.7	977.9	632.6	487.1	429.0	410.8	410.8	410.8	410.8
42.5°	4507.9	3599.0	1890.4	959.7	621.7	479.9	414.4	392.6	396.3	396.3	399.9
45°	4802.3	3784.4	1886.8	941.6	618.0	472.6	399.9	374.4	378.1	374.4	374.4
47.5°	5100.4	3998.9	1897.7	930.7	614.4	465.3	389.0	356.3	356.3	352.6	352.6
50°	5413.1	4195.2	1904.9	919.8	607.1	450.8	370.8	341.7	334.5	327.2	330.8
52.5°	5707.6	4377.0	1908.6	901.6	585.3	429.0	356.3	323.5	312.6	301.7	305.4
55°	6002.0	4551.5	1915.8	879.8	556.2	407.2	338.1	305.4	290.8	276.3	276.3
57.5°	6267.4	4704.2	1897.7	825.2	523.5	385.4	319.9	283.6	261.7	247.2	247.2
60°	6449.2	4813.3	1843.1	745.3	479.9	359.9	301.7	261.7	236.3	225.4	225.4
62.5°	6536.4	4831.4	1745.0	614.4	425.3	334.5	279.9	239.9	218.1	210.9	210.9
65°	6452.8	4751.4	1592.3	461.7	367.2	305.4	258.1	221.8	199.9	181.8	181.8
67.5°	6162.0	4526.1	1381.4	349.0	312.6	276.3	236.3	203.6	178.1	163.6	163.6
70°	5576.7	4057.1	1068.8	279.9	265.4	239.9	214.5	181.8	160.0	141.8	141.8
72.5°	4809.6	3439.1	752.5	225.4	225.4	203.6	181.8	160.0	138.1	123.6	123.6
75°	3689.9	2544.8	505.3	181.8	185.4	170.9	149.1	130.9	116.3	105.4	105.4
77.5°	2014.0	1257.8	309.0	134.5	138.1	130.9	116.3	105.4	98.2	87.2	87.2
80°	977.9	552.6	178.1	94.5	98.2	94.5	87.2	76.3	76.3	69.1	69.1
82.5°	410.8	207.2	94.5	65.4	65.4	58.2	54.5	54.5	54.5	50.9	50.9
85°	101.8	40.0	40.0	36.4	36.4	36.4	32.7	32.7	32.7	25.4	29.1
87.5°	14.5	14.5	14.5	14.5	14.5	14.5	10.9	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)