

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: P842085

Luminaire Tested: **ARCH4-270-722-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-270-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22794 lumens
Efficiency: N/A
Efficacy: 84.7 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): 269
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

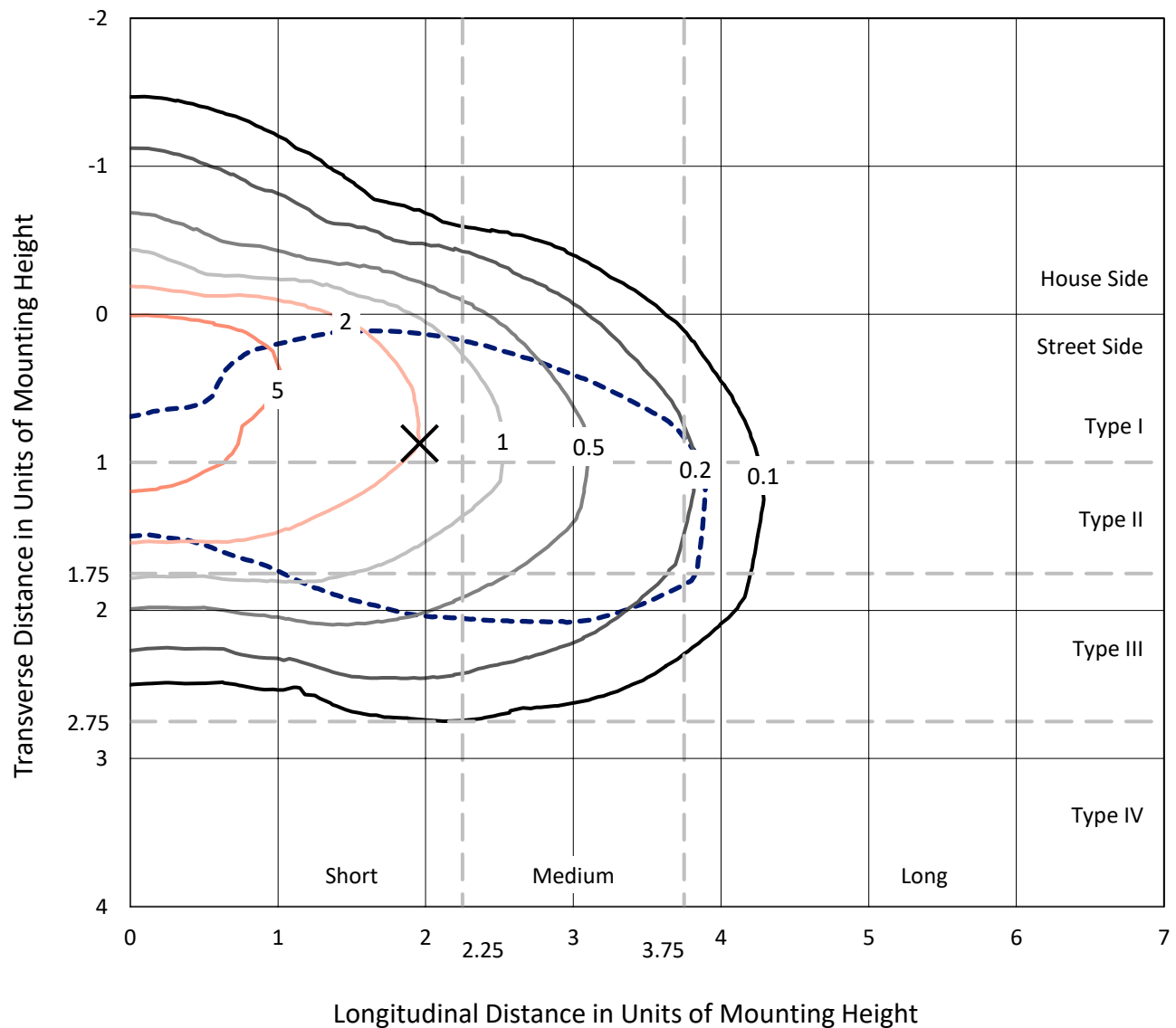


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Iso-Footcandle Lines of Horizontal Illumination

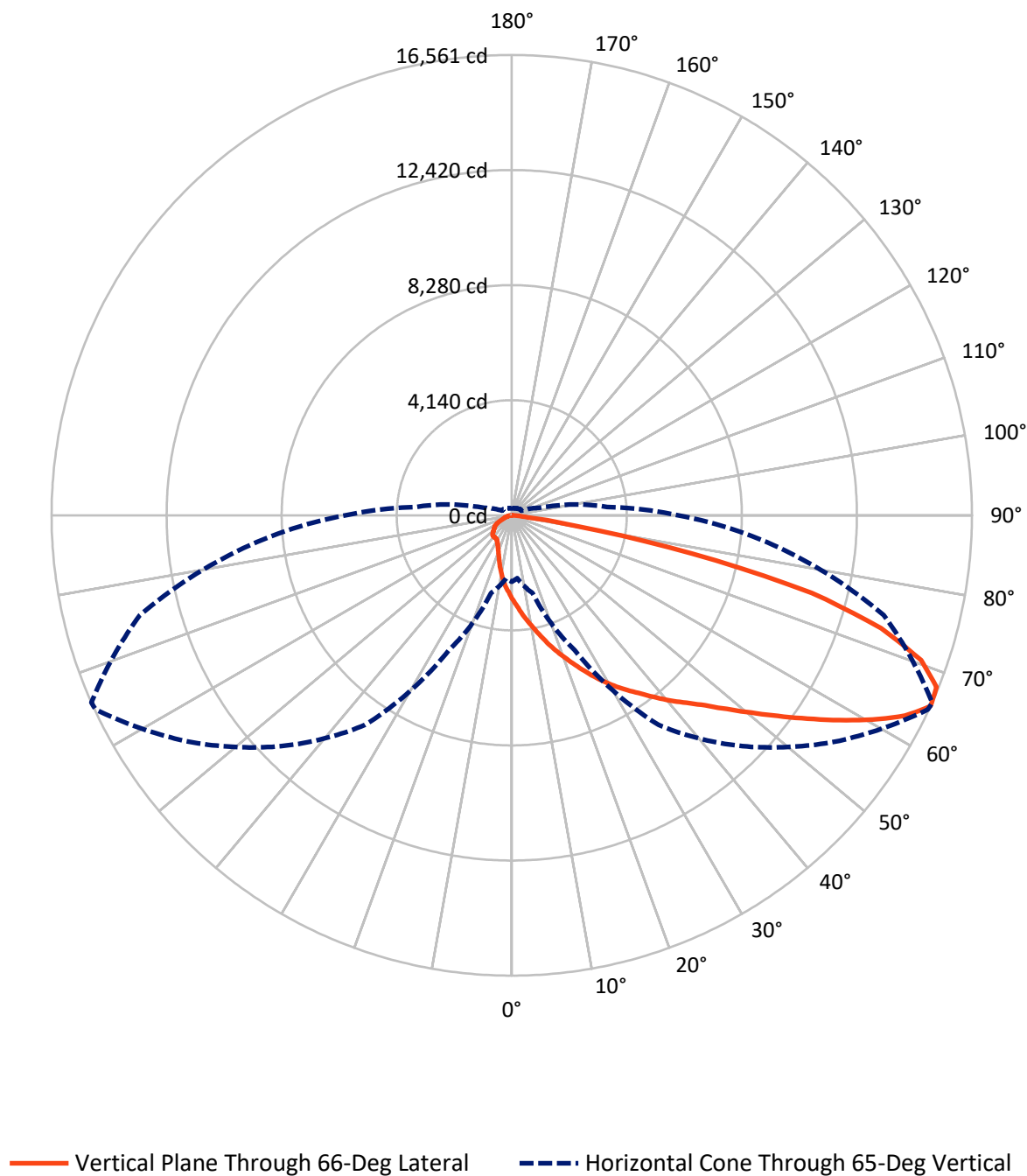
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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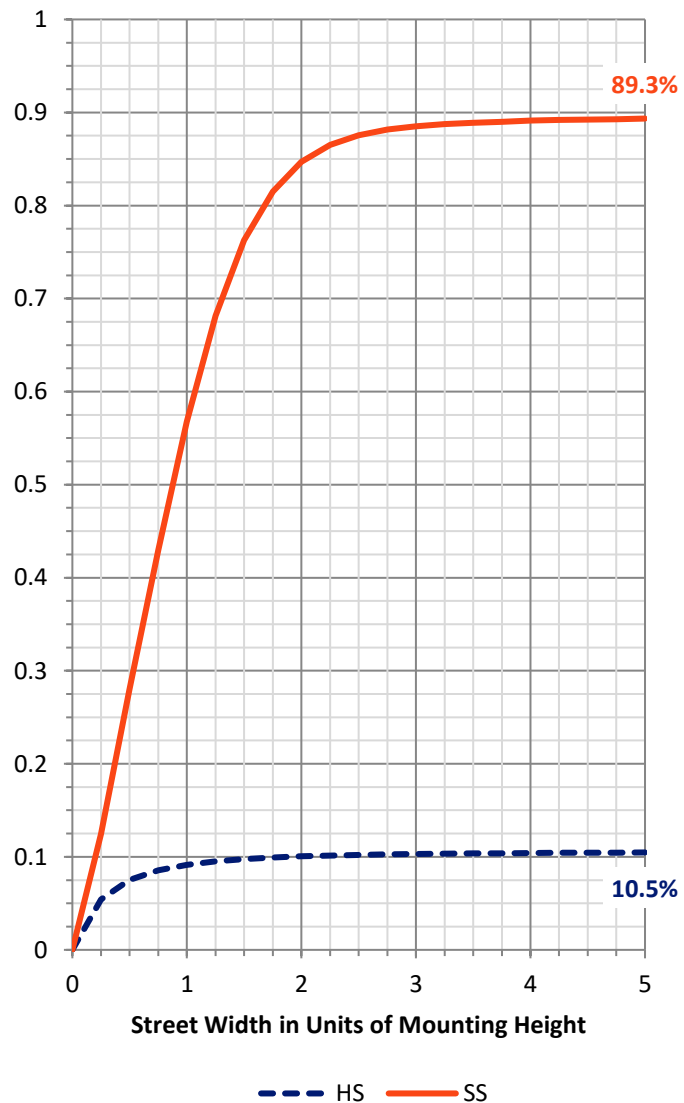
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2411.0	0.0	2411.0
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	20383.0	0.0	20383.0
	% Fixture	89.4	0.0	89.4
Total	Lumens	22794.0	0.0	22794.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.7	1.3
10°-20°	970.4	4.3
20°-30°	1755.8	7.7
30°-40°	2745.6	12.0
40°-50°	4165.1	18.3
50°-60°	5291.9	23.2
60°-70°	4944.7	21.7
70°-80°	2457.5	10.8
80°-90°	165.1	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°	22794.0	100.0
0°-180°	22794.0	100.0

Coefficient of Utilization



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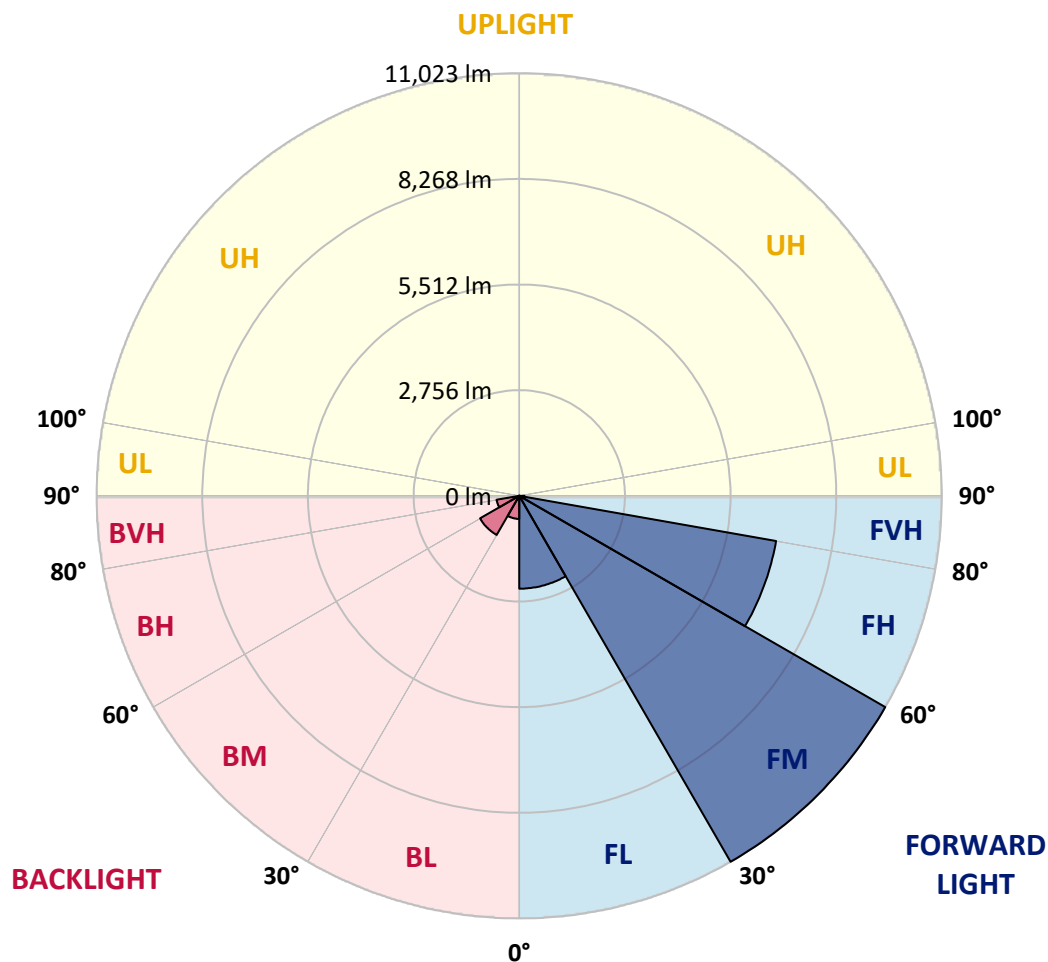
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2421.9	10.6			
FM	(30°-60°)	11023.4	48.4			
FH	(60°-80°)	6801.8	29.8			G3/7500
FVH	(80°-90°)	135.9	0.6			G2/225
BL	(0°-30°)	602.1	2.6	B2/1000		
BM	(30°-60°)	1179.2	5.2	B2/2500		
BH	(60°-80°)	600.4	2.6	B2/1000		G2/1000
BVH	(80°-90°)	29.2	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3016.7	3016.7	3016.7	3016.7	3016.7	3016.7	3016.7	3016.7	3016.7	3016.7	3016.7
2.5°	3523.4	3552.1	3566.4	3571.2	3461.3	3413.5	3365.7	3255.7	3231.8	3169.6	3088.4
5°	4144.9	4183.2	4173.6	4154.5	4020.6	3867.6	3743.3	3537.8	3504.3	3356.1	3174.4
7.5°	4756.9	4790.3	4780.8	4709.1	4560.8	4345.7	4140.1	3839.0	3791.1	3552.1	3260.5
10°	5268.4	5297.1	5292.3	5220.6	5043.7	4780.8	4532.2	4130.6	4073.2	3733.8	3332.2
12.5°	5689.1	5727.4	5722.6	5674.8	5517.0	5230.2	4948.1	4465.2	4393.5	3953.7	3432.6
15°	6019.0	6066.8	6066.8	6047.7	5937.7	5698.7	5378.4	4833.4	4747.3	4207.1	3556.9
17.5°	6219.8	6258.0	6291.5	6324.9	6248.5	6066.8	5775.2	5201.5	5110.6	4455.7	3686.0
20°	6324.9	6363.2	6387.1	6458.8	6473.2	6382.3	6152.8	5564.8	5469.2	4737.7	3834.2
22.5°	6497.1	6530.5	6535.3	6597.5	6626.1	6650.0	6506.6	5923.4	5846.9	5048.5	4001.5
25°	6783.9	6822.1	6807.8	6836.5	6841.3	6870.0	6855.6	6334.5	6258.0	5402.3	4202.3
27.5°	7152.0	7199.8	7190.3	7161.6	7118.6	7094.7	7156.8	6750.4	6678.7	5756.0	4407.9
30°	7548.8	7606.2	7591.9	7534.5	7419.7	7319.3	7405.4	7142.5	7075.5	6119.4	4637.3
32.5°	7950.4	8017.3	8012.6	7916.9	7720.9	7548.8	7677.9	7510.6	7462.8	6511.4	4885.9
35°	8213.3	8299.4	8289.8	8232.5	7979.1	7830.9	7988.7	7888.3	7854.8	6989.5	5244.5
37.5°	8638.8	8729.7	8648.4	8505.0	8213.3	8136.9	8328.1	8313.7	8289.8	7496.2	5622.2
40°	9671.5	9805.3	9590.2	9002.2	8524.1	8457.2	8729.7	8787.0	8763.1	7998.2	5961.6
42.5°	10751.9	10952.7	10618.1	9805.3	9088.2	8844.4	9169.5	9250.8	9222.1	8428.5	6267.6
45°	11406.9	11493.0	11158.3	10527.2	10087.4	9312.9	9638.0	9771.9	9748.0	8944.8	6659.6
47.5°	11942.3	11908.9	11526.4	11100.9	11182.2	9972.7	10168.7	10431.6	10412.5	9513.7	7089.9
50°	12057.1	11980.6	11827.6	11559.9	11775.0	10642.0	10728.0	11182.2	11163.1	10144.8	7524.9
52.5°	11249.1	11148.7	11564.7	11789.4	11717.6	11129.6	11344.7	12004.5	11994.9	10828.4	7940.8
55°	9231.7	9150.4	10269.1	11430.8	11655.5	11473.8	12028.4	12860.2	12912.8	11555.1	8318.5
57.5°	7262.0	7175.9	8275.5	10532.0	11426.0	11789.4	12826.8	13840.3	13907.2	12343.9	8677.1
60°	5789.5	5660.4	6501.8	9116.9	10995.8	12033.2	13596.5	14916.0	14925.5	13065.8	8897.0
62.5°	3934.6	3791.1	4723.4	7324.1	10273.9	12071.4	14189.3	15843.4	15881.7	13606.0	8935.2
65°	2390.4	2270.9	2901.9	5349.7	9207.7	11746.3	14198.9	16527.1	16560.6	13854.6	8705.8
67.5°	1386.4	1338.6	1658.9	3332.2	7438.9	10871.5	13601.3	16421.9	16484.1	13749.5	8184.7
70°	807.9	803.2	922.7	1649.4	5249.3	9136.0	12267.4	15537.5	15628.3	13199.7	7386.3
72.5°	592.8	602.4	650.2	884.4	3040.6	6578.3	10388.6	13759.0	13897.7	12124.0	6248.5
75°	468.5	473.3	516.3	602.4	1596.8	3719.4	7783.1	11043.6	11153.5	10206.9	4881.2
77.5°	349.0	358.6	392.0	425.5	741.0	1706.7	4379.2	6803.0	6621.4	5603.1	2356.9
80°	253.4	277.3	291.6	306.0	392.0	659.7	1314.7	2371.3	2352.1	2447.8	1113.9
82.5°	162.5	181.7	196.0	205.6	234.3	315.5	392.0	530.7	573.7	951.4	444.6
85°	71.7	81.3	90.8	110.0	100.4	110.0	162.5	105.2	90.8	143.4	81.3
87.5°	0.0	0.0	14.3	23.9	19.1	9.6	28.7	19.1	14.3	14.3	14.3
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°	3016.7	3016.7	3016.7	3016.7	3016.7	3016.7	3016.7	3016.7	3016.7	3016.7	3016.7
2.5°	3045.3	2992.8	2882.8	2777.6	2715.5	2634.2	2562.5	2495.6	2490.8	2471.7	2438.2
5°	3083.6	2983.2	2777.6	2581.6	2433.4	2275.6	2141.8	2036.6	1998.4	1969.7	1931.4
7.5°	3121.8	2964.1	2658.1	2371.3	2137.0	1917.1	1759.3	1615.9	1572.9	1534.6	1510.7
10°	3136.2	2930.6	2519.5	2137.0	1831.0	1596.8	1429.4	1324.3	1286.0	1266.9	1252.6
12.5°	3179.2	2911.5	2390.4	1917.1	1563.3	1348.2	1228.7	1166.5	1152.2	1137.8	1123.5
15°	3236.6	2911.5	2261.3	1702.0	1353.0	1180.8	1109.1	1066.1	1056.5	1051.8	1042.2
17.5°	3298.7	2911.5	2137.0	1520.3	1200.0	1070.9	1018.3	994.4	989.6	984.8	980.1
20°	3384.8	2916.3	2003.1	1362.5	1090.0	989.6	946.6	917.9	913.1	908.3	908.3
22.5°	3470.8	2925.8	1874.1	1243.0	1018.3	927.5	874.9	846.2	836.6	836.6	836.6
25°	3580.8	2954.5	1754.5	1142.6	956.2	870.1	803.2	779.3	774.5	774.5	769.7
27.5°	3709.9	2988.0	1649.4	1066.1	894.0	803.2	736.2	712.3	702.8	702.8	698.0
30°	3848.5	3021.4	1563.3	1008.7	831.9	736.2	674.1	645.4	635.8	640.6	635.8
32.5°	4001.5	3069.2	1496.4	970.5	774.5	678.9	621.5	588.0	583.3	583.3	578.5
35°	4259.7	3203.1	1486.8	951.4	726.7	635.8	578.5	545.0	540.2	540.2	535.4
37.5°	4536.9	3356.1	1529.8	941.8	688.4	597.6	545.0	511.5	506.8	506.8	506.8
40°	4771.2	3470.8	1577.7	941.8	664.5	564.1	516.3	487.6	487.6	487.6	487.6
42.5°	4929.0	3480.4	1568.1	941.8	645.4	540.2	497.2	468.5	468.5	473.3	468.5
45°	5163.2	3528.2	1529.8	927.5	631.1	521.1	478.1	454.2	449.4	454.2	454.2
47.5°	5440.5	3614.3	1491.6	870.1	626.3	502.0	463.7	435.0	430.3	435.0	430.3
50°	5703.4	3690.7	1472.5	793.6	616.7	482.9	444.6	415.9	411.1	415.9	411.1
52.5°	5923.4	3724.2	1439.0	741.0	592.8	463.7	425.5	396.8	387.2	392.0	392.0
55°	6100.3	3714.7	1391.2	698.0	549.8	444.6	401.6	377.7	363.3	363.3	358.6
57.5°	6262.8	3719.4	1348.2	655.0	502.0	415.9	382.5	353.8	334.7	329.9	325.1
60°	6324.9	3695.5	1271.7	597.6	454.2	392.0	358.6	325.1	306.0	301.2	296.4
62.5°	6238.9	3609.5	1171.3	497.2	411.1	363.3	334.7	301.2	282.1	277.3	272.5
65°	5995.1	3446.9	1018.3	392.0	372.9	329.9	306.0	282.1	258.2	248.6	243.8
67.5°	5579.1	3212.7	827.1	315.5	329.9	301.2	286.8	258.2	229.5	219.9	215.1
70°	4986.3	2901.9	621.5	267.7	291.6	267.7	258.2	229.5	205.6	196.0	191.2
72.5°	4154.5	2399.9	435.0	229.5	253.4	234.3	224.7	205.6	181.7	167.3	167.3
75°	3141.0	1721.1	286.8	196.0	210.4	200.8	186.4	172.1	157.8	148.2	143.4
77.5°	1353.0	669.3	176.9	148.2	172.1	167.3	148.2	138.6	133.9	124.3	124.3
80°	583.3	272.5	110.0	110.0	124.3	119.5	114.7	105.2	105.2	100.4	95.6
82.5°	215.1	110.0	66.9	81.3	90.8	81.3	81.3	81.3	81.3	76.5	76.5
85°	52.6	33.5	33.5	47.8	52.6	47.8	52.6	47.8	47.8	47.8	43.0
87.5°	14.3	14.3	19.1	19.1	19.1	19.1	19.1	14.3	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)