

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: P836758

Luminaire Tested: **ARCH3-70-730-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836758
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: ARCH3-70-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

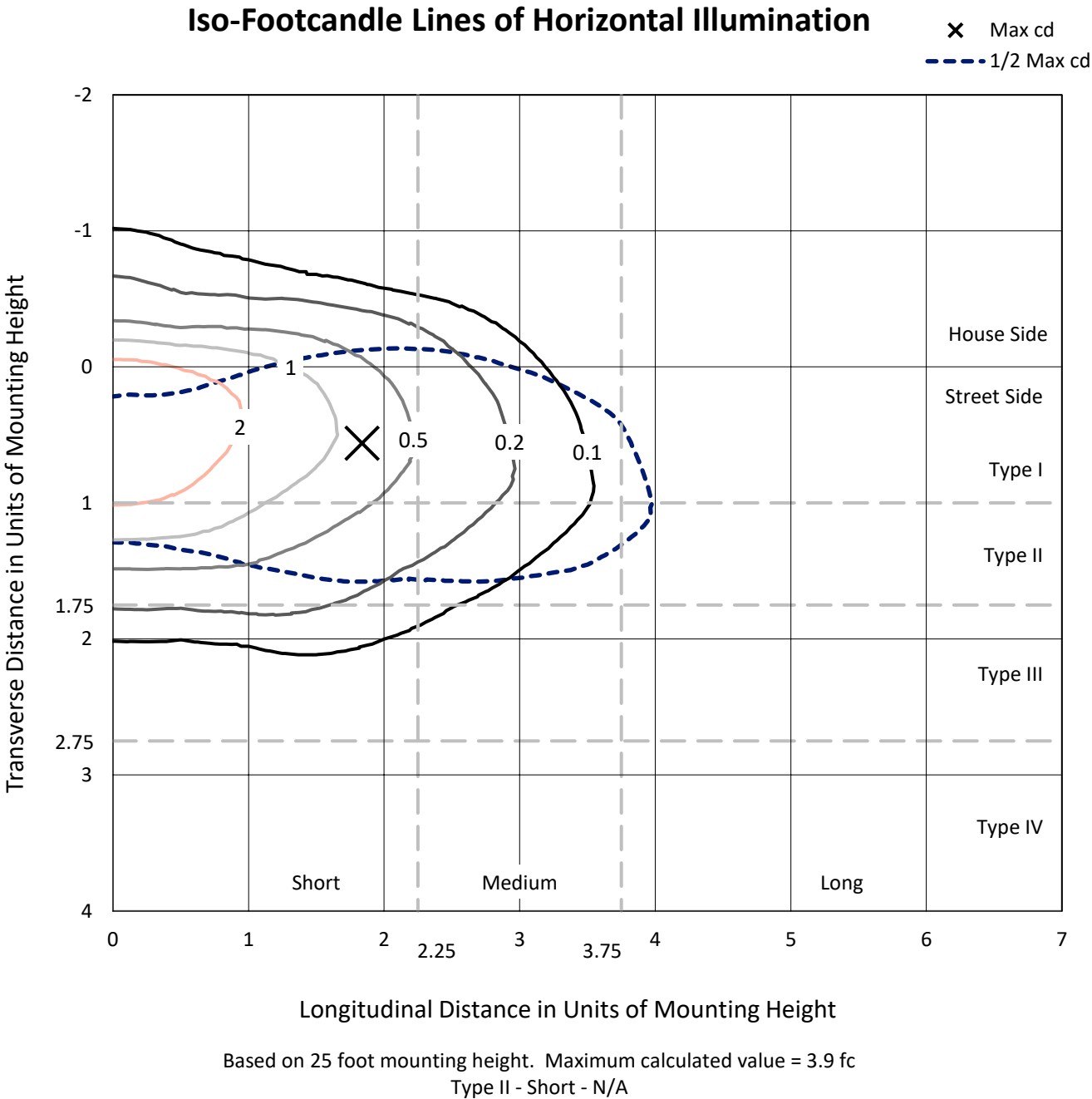
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8154 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.1
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

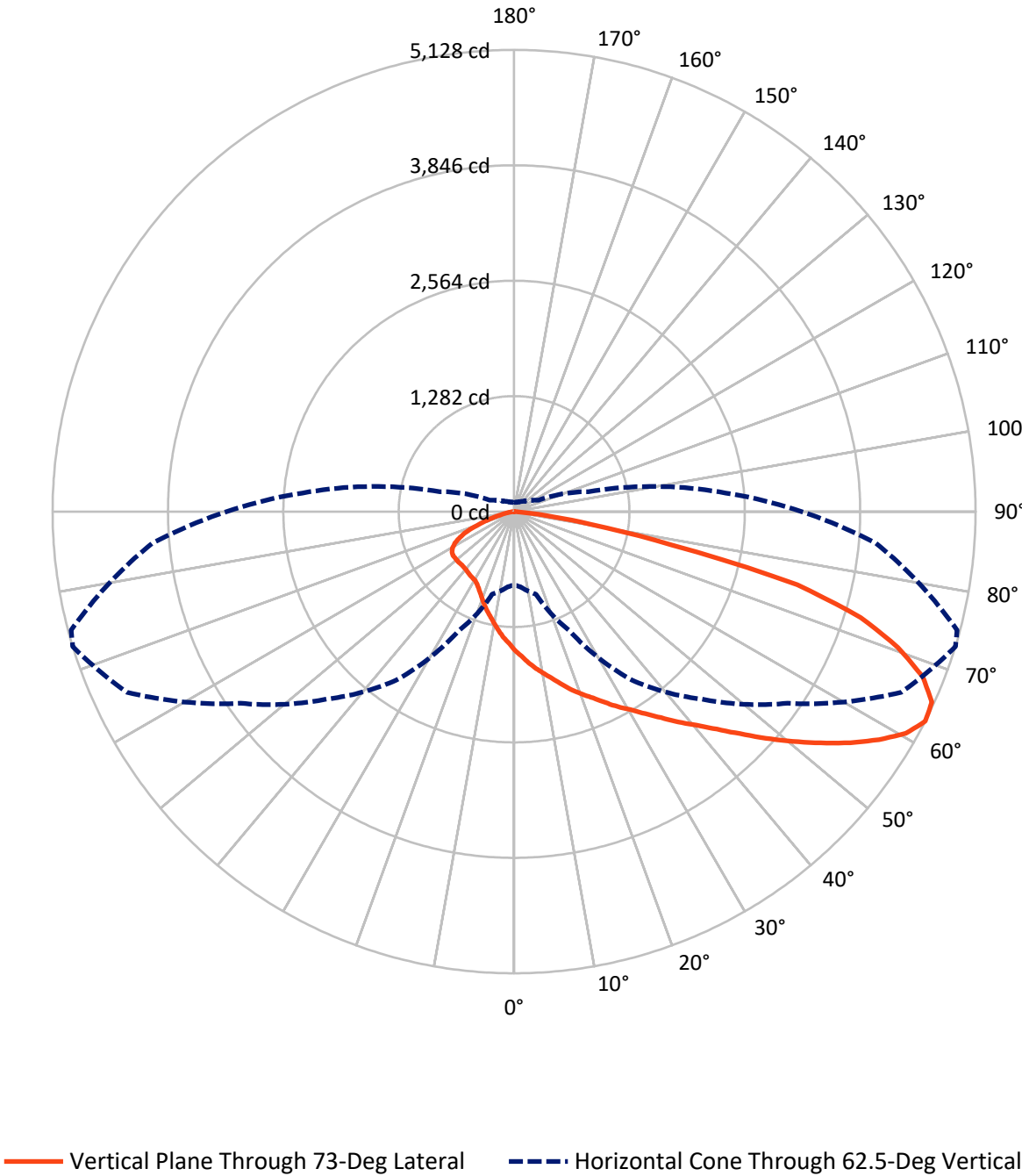


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Luminous Intensity Polar Plot



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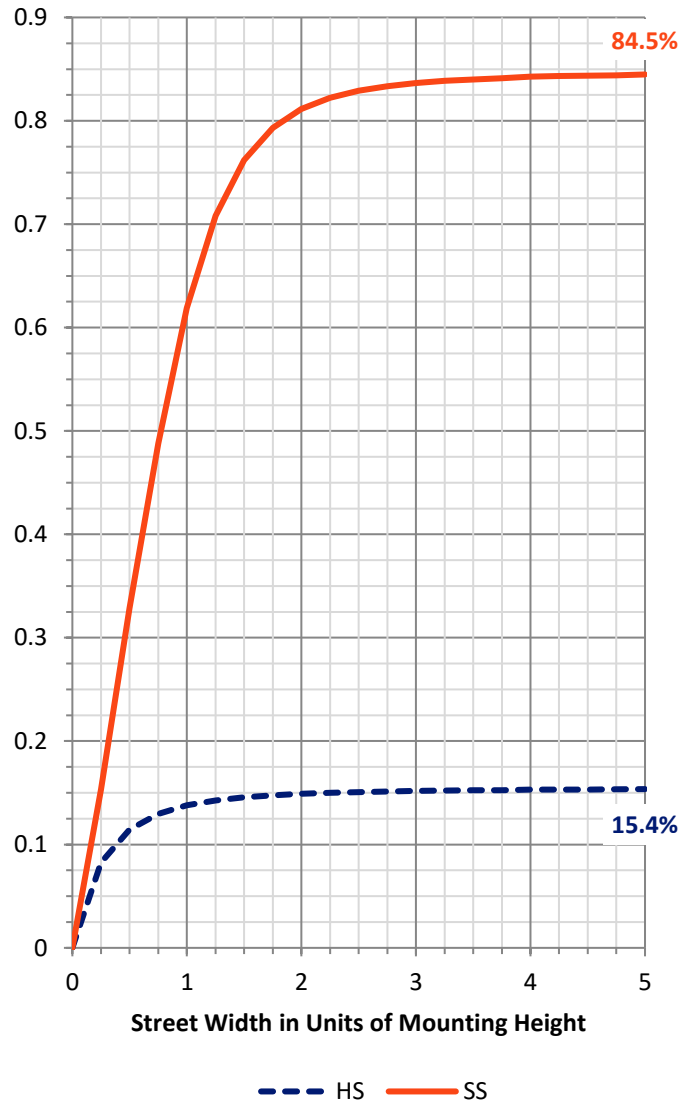
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1264.0	0.0	1264.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	6890.0	0.0	6890.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	8154.0	0.0	8154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.2	1.8
10°-20°	450.1	5.5
20°-30°	749.2	9.2
30°-40°	1130.4	13.9
40°-50°	1580.0	19.4
50°-60°	1745.2	21.4
60°-70°	1520.3	18.6
70°-80°	768.0	9.4
80°-90°	61.6	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°	8154.0	100.0
0°-180°	8154.0	100.0

Coefficient of Utilization



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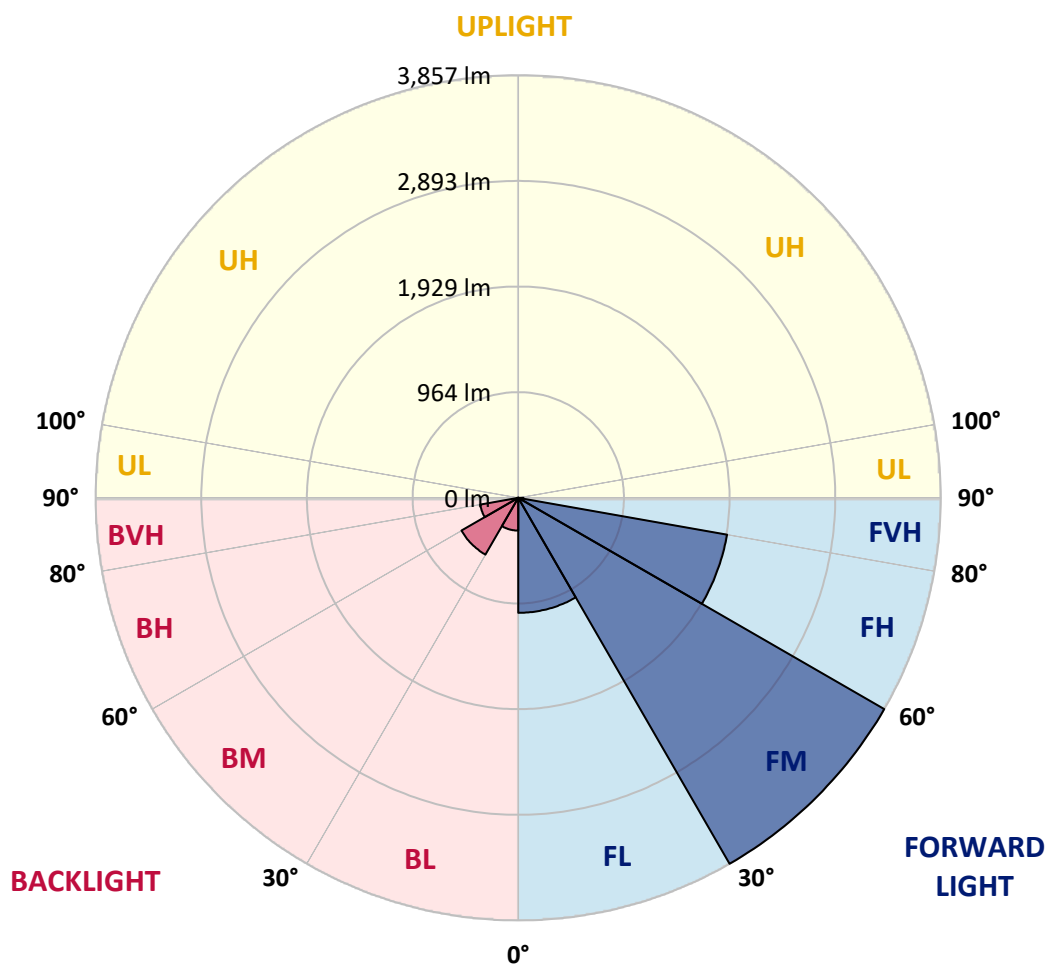
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1049.7	12.9			
FM	(30°-60°)	3857.1	47.3			
FH	(60°-80°)	1935.5	23.7			G2/5000
FVH	(80°-90°)	47.7	0.6			G1/100
BL	(0°-30°)	298.8	3.7	B1/500		
BM	(30°-60°)	598.5	7.3	B1/1000		
BH	(60°-80°)	352.8	4.3	B1/500		G1/500
BVH	(80°-90°)	13.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1544.0	1544.0	1544.0	1544.0	1544.0	1544.0	1544.0	1544.0	1544.0	1544.0	1544.0
2.5°	1757.2	1776.7	1766.1	1773.2	1737.6	1714.5	1687.9	1636.4	1607.9	1604.4	1570.6
5°	2014.8	2036.1	2018.4	2013.0	1950.8	1897.5	1837.1	1746.5	1686.1	1675.5	1600.8
7.5°	2272.4	2292.0	2270.7	2254.7	2171.2	2077.0	1988.2	1854.9	1760.7	1743.0	1625.7
10°	2453.7	2471.4	2455.4	2439.4	2352.4	2256.4	2130.3	1956.2	1828.3	1799.8	1641.7
12.5°	2590.5	2601.1	2594.0	2579.8	2498.1	2395.0	2274.2	2069.9	1904.7	1869.1	1666.6
15°	2702.4	2720.2	2711.3	2700.6	2622.5	2519.4	2403.9	2188.9	1993.5	1949.1	1703.9
17.5°	2777.0	2789.5	2791.2	2791.2	2721.9	2620.7	2508.7	2297.3	2082.3	2025.5	1739.4
20°	2810.8	2825.0	2833.9	2848.1	2791.2	2704.2	2590.5	2389.7	2165.8	2101.9	1773.2
22.5°	2826.8	2839.2	2862.3	2894.3	2848.1	2775.3	2670.4	2475.0	2249.3	2181.8	1812.3
25°	2839.2	2855.2	2889.0	2949.4	2917.4	2855.2	2764.6	2572.7	2348.8	2279.5	1869.1
27.5°	2873.0	2892.5	2924.5	2997.3	2958.3	2928.0	2864.1	2677.5	2453.7	2382.6	1938.4
30°	2990.2	3006.2	3004.4	3050.6	3002.7	2993.8	2949.4	2778.8	2554.9	2483.9	2020.1
32.5°	3203.4	3219.4	3180.3	3162.6	3057.7	3059.5	3041.8	2887.2	2675.8	2602.9	2114.3
35°	3432.6	3450.4	3398.9	3368.7	3192.8	3141.3	3150.1	3022.2	2810.8	2737.9	2231.6
37.5°	3637.0	3658.3	3613.9	3569.4	3391.8	3272.7	3271.0	3173.2	2965.4	2890.7	2361.3
40°	3748.9	3773.8	3800.4	3775.5	3589.0	3457.5	3400.7	3327.8	3118.2	3041.8	2501.6
42.5°	3802.2	3871.5	3919.5	3903.5	3750.7	3617.4	3549.9	3489.5	3304.7	3230.1	2668.6
45°	3653.0	3654.7	3756.0	3843.1	3814.6	3725.8	3713.4	3670.7	3517.9	3446.9	2857.0
47.5°	3466.4	3452.2	3523.3	3677.8	3757.8	3780.9	3853.7	3871.5	3761.3	3690.3	3048.9
50°	3018.7	3027.5	3258.5	3480.6	3637.0	3786.2	3953.2	4077.6	4011.9	3944.3	3251.4
52.5°	2455.4	2476.8	2741.5	3230.1	3477.1	3732.9	4011.9	4283.7	4267.7	4203.7	3454.0
55°	1968.6	2002.4	2283.1	2812.6	3272.7	3613.9	4036.7	4472.0	4532.4	4473.8	3653.0
57.5°	1504.9	1540.4	1776.7	2320.4	3011.6	3420.2	4019.0	4637.3	4779.4	4742.1	3836.0
60°	1133.6	1169.1	1320.1	1881.6	2684.6	3203.4	3930.1	4745.6	5001.5	4962.4	3969.2
62.5°	812.0	840.4	952.3	1464.0	2286.6	2945.8	3711.6	4747.4	5127.6	5095.7	4033.2
65°	584.5	584.5	675.2	1044.7	1913.5	2636.7	3381.1	4528.9	5101.0	5092.1	3988.8
67.5°	421.1	424.6	497.5	730.2	1526.2	2261.8	2952.9	4139.8	4894.9	4939.3	3828.9
70°	298.5	307.4	341.1	509.9	1153.1	1785.6	2494.5	3629.9	4523.6	4601.7	3519.7
72.5°	231.0	236.3	259.4	355.3	842.2	1327.2	1988.2	3061.3	4027.8	4116.7	3098.6
75°	177.7	183.0	200.8	261.2	604.1	931.0	1412.5	2375.5	3247.9	3406.0	2489.2
77.5°	129.7	136.8	149.2	190.1	351.8	591.7	856.4	1336.1	1792.7	1867.3	1304.1
80°	60.4	69.3	87.1	122.6	190.1	278.9	303.8	515.3	861.7	900.8	707.1
82.5°	33.8	42.6	49.7	74.6	95.9	99.5	103.1	129.7	325.1	358.9	296.7
85°	16.0	21.3	23.1	32.0	32.0	28.4	33.8	24.9	53.3	64.0	62.2
87.5°	0.0	1.8	3.6	8.9	7.1	5.3	5.3	5.3	5.3	7.1	5.3
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°	1544.0	1544.0	1544.0	1544.0	1544.0	1544.0	1544.0	1544.0	1544.0	1544.0	1544.0
2.5°	1554.6	1531.5	1478.2	1432.0	1401.8	1375.2	1339.7	1323.7	1295.2	1300.6	1284.6
5°	1563.5	1520.9	1426.7	1339.7	1275.7	1218.8	1156.7	1121.1	1082.0	1078.5	1066.0
7.5°	1568.9	1503.1	1368.1	1245.5	1147.8	1060.7	977.2	931.0	883.0	872.4	861.7
10°	1563.5	1476.5	1307.7	1147.8	1018.1	909.7	815.5	756.9	707.1	694.7	684.0
12.5°	1568.9	1462.2	1250.8	1057.2	902.6	780.0	673.4	613.0	566.8	554.3	547.2
15°	1581.3	1453.4	1202.8	975.4	799.5	662.7	557.9	506.4	469.1	456.6	453.1
17.5°	1591.9	1444.5	1151.3	895.5	696.5	559.7	469.1	426.4	394.4	382.0	378.4
20°	1606.2	1432.0	1099.8	819.1	605.9	477.9	398.0	360.7	335.8	326.9	325.1
22.5°	1618.6	1423.2	1051.8	742.7	522.4	412.2	344.7	314.5	296.7	287.8	287.8
25°	1650.6	1426.7	1011.0	671.6	460.2	360.7	303.8	280.7	266.5	261.2	261.2
27.5°	1687.9	1440.9	979.0	611.2	406.9	321.6	275.4	255.8	248.7	241.6	243.4
30°	1741.2	1469.4	957.7	561.4	367.8	291.4	252.3	238.1	231.0	229.2	229.2
32.5°	1808.7	1515.5	955.9	529.5	339.4	268.3	236.3	223.9	220.3	218.5	218.5
35°	1888.7	1556.4	945.2	515.3	321.6	252.3	223.9	215.0	213.2	213.2	213.2
37.5°	1984.6	1623.9	938.1	495.7	312.7	243.4	215.0	207.9	207.9	207.9	207.9
40°	2084.1	1679.0	927.5	477.9	309.2	238.1	209.7	200.8	200.8	200.8	200.8
42.5°	2203.1	1759.0	923.9	469.1	303.8	234.5	202.5	191.9	193.7	193.7	195.4
45°	2347.1	1849.6	922.1	460.2	302.0	231.0	195.4	183.0	184.8	183.0	183.0
47.5°	2492.8	1954.4	927.5	454.8	300.3	227.4	190.1	174.1	174.1	172.3	172.3
50°	2645.5	2050.3	931.0	449.5	296.7	220.3	181.2	167.0	163.5	159.9	161.7
52.5°	2789.5	2139.2	932.8	440.6	286.1	209.7	174.1	158.1	152.8	147.5	149.2
55°	2933.4	2224.5	936.3	430.0	271.8	199.0	165.2	149.2	142.1	135.0	135.0
57.5°	3063.1	2299.1	927.5	403.3	255.8	188.3	156.4	138.6	127.9	120.8	120.8
60°	3151.9	2352.4	900.8	364.2	234.5	175.9	147.5	127.9	115.5	110.2	110.2
62.5°	3194.6	2361.3	852.8	300.3	207.9	163.5	136.8	117.3	106.6	103.1	103.1
65°	3153.7	2322.2	778.2	225.6	179.4	149.2	126.1	108.4	97.7	88.8	88.8
67.5°	3011.6	2212.0	675.2	170.6	152.8	135.0	115.5	99.5	87.1	80.0	80.0
70°	2725.5	1982.8	522.4	136.8	129.7	117.3	104.8	88.8	78.2	69.3	69.3
72.5°	2350.6	1680.8	367.8	110.2	110.2	99.5	88.8	78.2	67.5	60.4	60.4
75°	1803.4	1243.7	247.0	88.8	90.6	83.5	72.8	64.0	56.9	51.5	51.5
77.5°	984.3	614.7	151.0	65.7	67.5	64.0	56.9	51.5	48.0	42.6	42.6
80°	477.9	270.1	87.1	46.2	48.0	46.2	42.6	37.3	37.3	33.8	33.8
82.5°	200.8	101.3	46.2	32.0	32.0	28.4	26.7	26.7	26.7	24.9	24.9
85°	49.7	19.5	19.5	17.8	17.8	17.8	16.0	16.0	16.0	12.4	14.2
87.5°	7.1	7.1	7.1	7.1	7.1	7.1	5.3	1.8	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)