

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: P842535

Luminaire Tested: **ARCH4-60-730-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842535
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: ARCH4-60-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

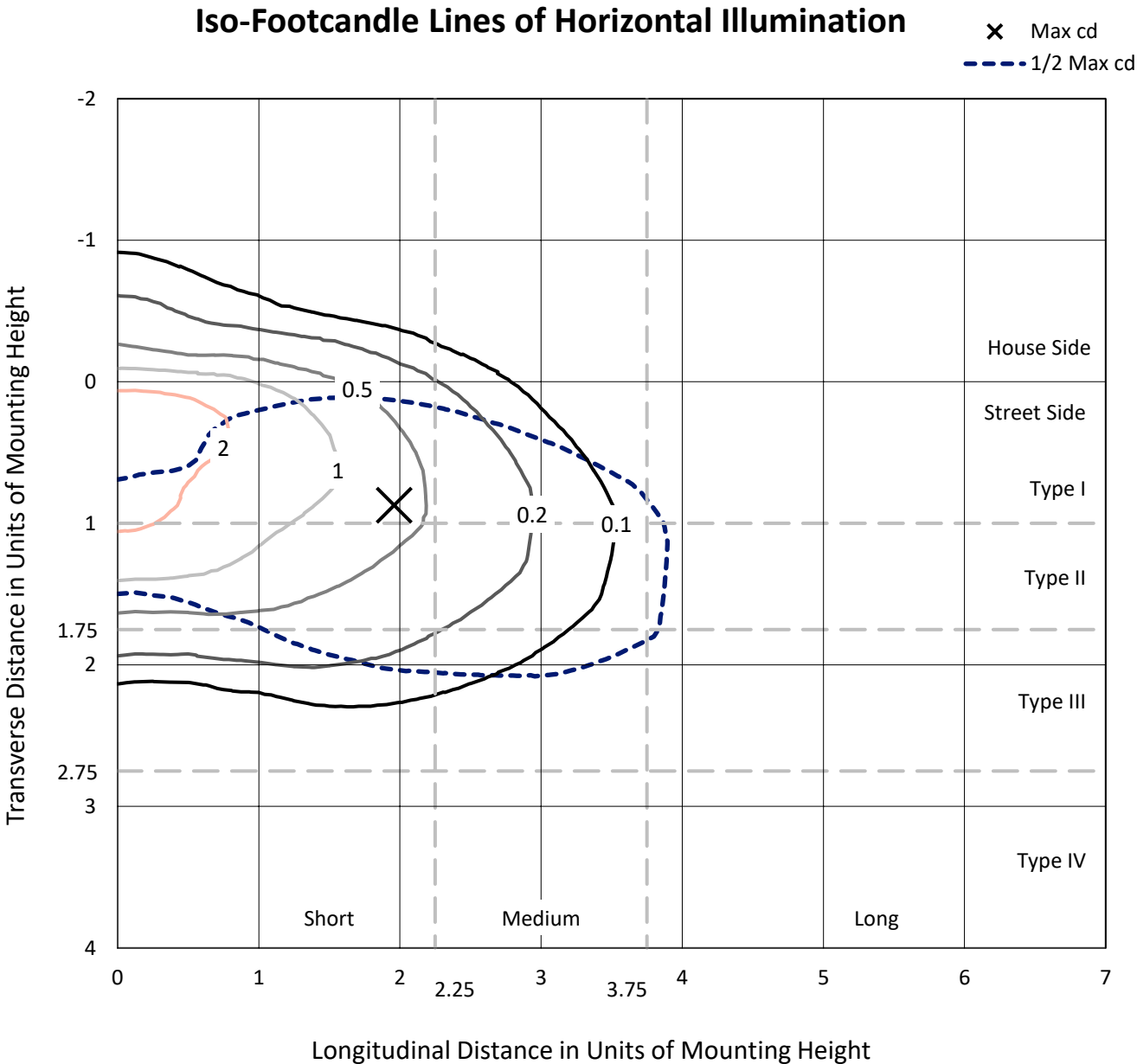
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7508 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63
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



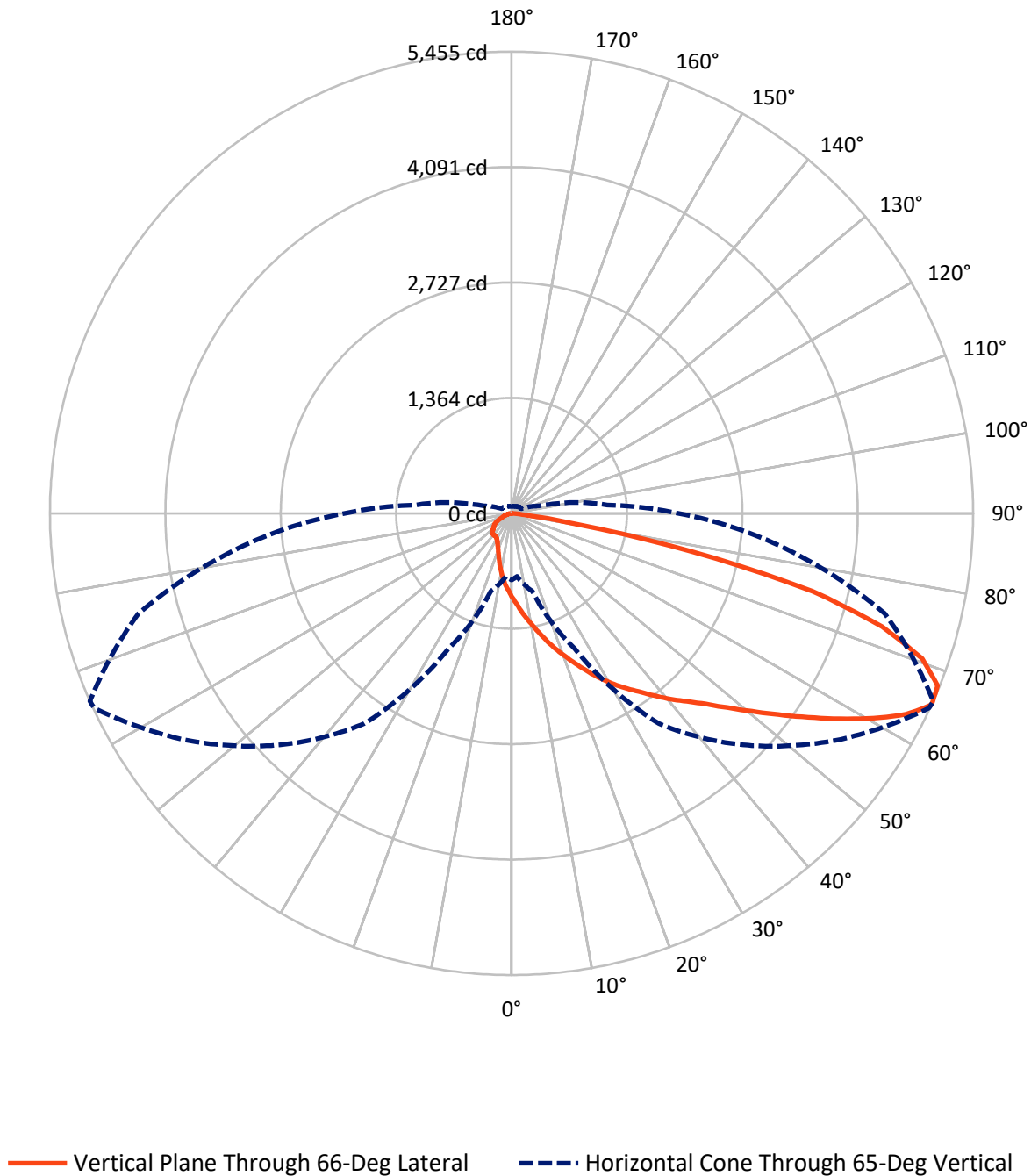
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Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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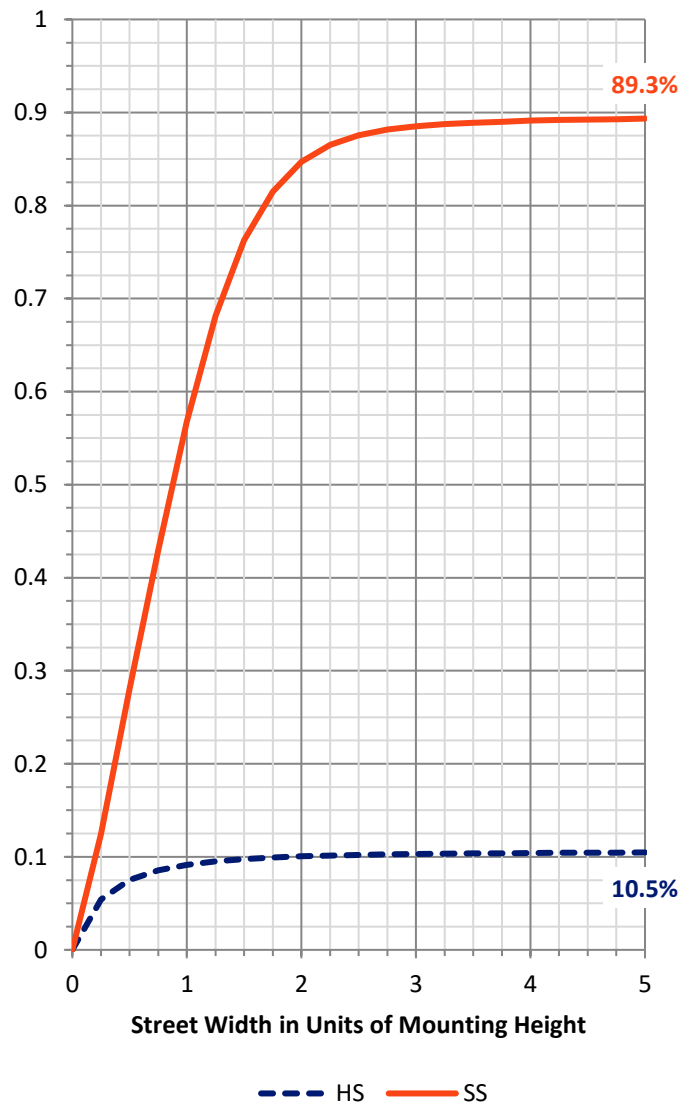
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	794.1	0.0	794.1
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	6713.8	0.0	6713.8
	% Fixture	89.4	0.0	89.4
Total	Lumens	7508.0	0.0	7508.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	1.3
10°-20°	319.6	4.3
20°-30°	578.3	7.7
30°-40°	904.4	12.0
40°-50°	1371.9	18.3
50°-60°	1743.1	23.2
60°-70°	1628.7	21.7
70°-80°	809.5	10.8
80°-90°	54.4	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°	7508.0	100.0
0°-180°	7508.0	100.0

Coefficient of Utilization



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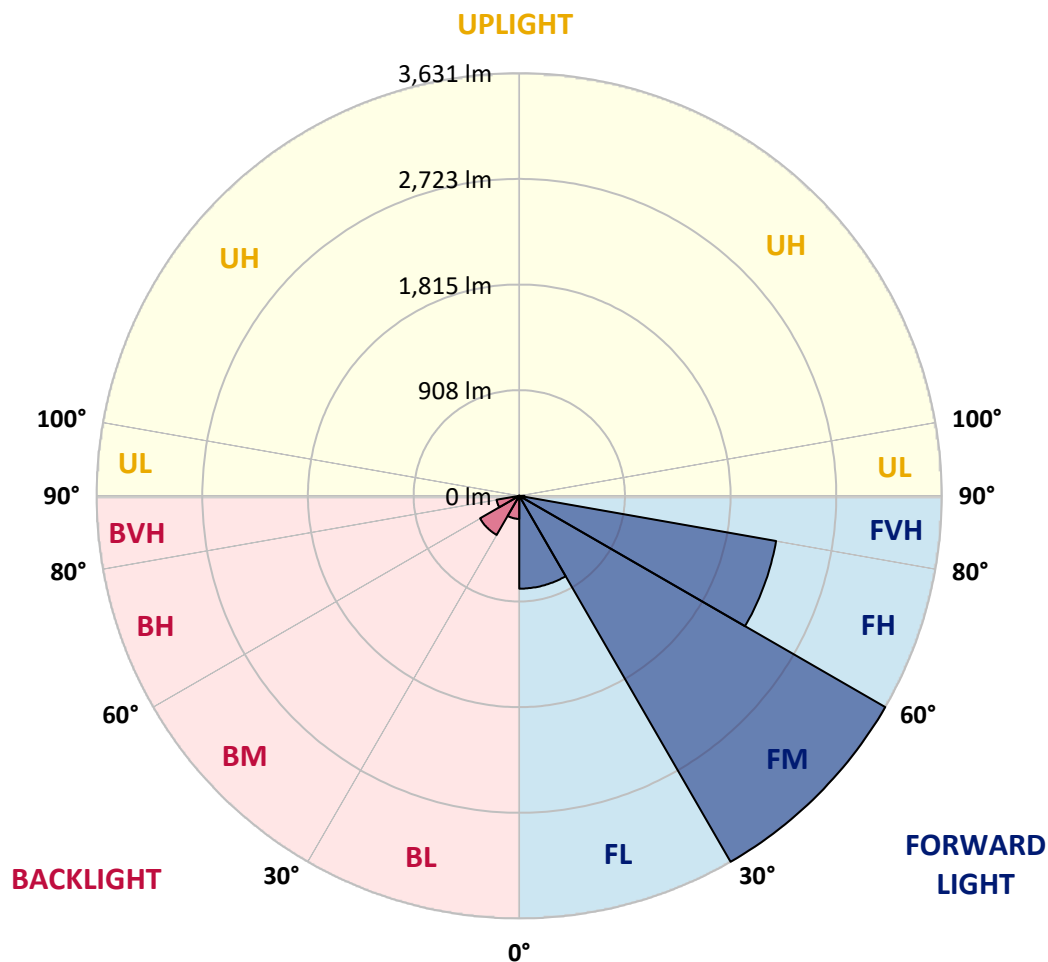
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	797.7	10.6			
FM	(30°-60°)	3630.9	48.4			
FH	(60°-80°)	2240.4	29.8			G2/5000
FVH	(80°-90°)	44.8	0.6			G1/100
BL	(0°-30°)	198.3	2.6	B1/500		
BM	(30°-60°)	388.4	5.2	B1/1000		
BH	(60°-80°)	197.8	2.6	B1/500		G1/500
BVH	(80°-90°)	9.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	993.6	993.6	993.6	993.6	993.6	993.6	993.6	993.6	993.6	993.6	993.6
2.5°	1160.6	1170.0	1174.7	1176.3	1140.1	1124.3	1108.6	1072.4	1064.5	1044.0	1017.3
5°	1365.3	1377.9	1374.7	1368.4	1324.3	1273.9	1233.0	1165.3	1154.3	1105.4	1045.6
7.5°	1566.8	1577.9	1574.7	1551.1	1502.3	1431.4	1363.7	1264.5	1248.7	1170.0	1074.0
10°	1735.3	1744.8	1743.2	1719.6	1661.3	1574.7	1492.8	1360.6	1341.7	1229.8	1097.6
12.5°	1873.9	1886.5	1884.9	1869.2	1817.2	1722.7	1629.8	1470.8	1447.2	1302.3	1130.6
15°	1982.6	1998.3	1998.3	1992.0	1955.8	1877.1	1771.5	1592.0	1563.7	1385.7	1171.6
17.5°	2048.7	2061.3	2072.3	2083.3	2058.1	1998.3	1902.3	1713.3	1683.4	1467.6	1214.1
20°	2083.3	2095.9	2103.8	2127.4	2132.2	2102.2	2026.7	1833.0	1801.5	1560.5	1262.9
22.5°	2140.0	2151.1	2152.6	2173.1	2182.5	2190.4	2143.2	1951.1	1925.9	1662.9	1318.0
25°	2234.5	2247.1	2242.4	2251.8	2253.4	2262.9	2258.1	2086.5	2061.3	1779.4	1384.2
27.5°	2355.8	2371.5	2368.4	2358.9	2344.7	2336.9	2357.3	2223.5	2199.9	1896.0	1451.9
30°	2486.5	2505.4	2500.6	2481.7	2444.0	2410.9	2439.2	2352.6	2330.6	2015.6	1527.5
32.5°	2618.7	2640.8	2639.2	2607.7	2543.2	2486.5	2529.0	2473.9	2458.1	2144.8	1609.4
35°	2705.4	2733.7	2730.5	2711.7	2628.2	2579.4	2631.3	2598.3	2587.3	2302.2	1727.5
37.5°	2845.5	2875.4	2848.7	2801.4	2705.4	2680.2	2743.1	2738.4	2730.5	2469.1	1851.9
40°	3185.6	3229.7	3158.9	2965.2	2807.7	2785.7	2875.4	2894.3	2886.4	2634.5	1963.7
42.5°	3541.5	3607.7	3497.4	3229.7	2993.5	2913.2	3020.3	3047.1	3037.6	2776.2	2064.4
45°	3757.3	3785.6	3675.4	3467.5	3322.6	3067.5	3174.6	3218.7	3210.8	2946.3	2193.6
47.5°	3933.6	3922.6	3796.6	3656.5	3683.2	3284.8	3349.4	3436.0	3429.7	3133.7	2335.3
50°	3971.4	3946.2	3895.8	3807.7	3878.5	3505.3	3533.7	3683.2	3677.0	3341.5	2478.6
52.5°	3705.3	3672.2	3809.2	3883.2	3859.6	3665.9	3736.8	3954.1	3950.9	3566.7	2615.6
55°	3040.8	3014.0	3382.5	3765.1	3839.1	3779.3	3962.0	4236.0	4253.3	3806.1	2740.0
57.5°	2392.0	2363.6	2725.8	3469.1	3763.6	3883.2	4224.9	4558.8	4580.8	4065.9	2858.1
60°	1907.0	1864.5	2141.6	3003.0	3621.8	3963.5	4478.5	4913.1	4916.2	4303.7	2930.5
62.5°	1296.0	1248.7	1555.8	2412.5	3384.1	3976.1	4673.7	5218.6	5231.2	4481.6	2943.1
65°	787.4	748.0	955.8	1762.1	3032.9	3869.1	4676.9	5443.8	5454.8	4563.5	2867.5
67.5°	456.7	440.9	546.4	1097.6	2450.3	3580.9	4480.1	5409.1	5429.6	4528.9	2695.9
70°	266.1	264.6	303.9	543.3	1729.0	3009.3	4040.7	5117.8	5147.7	4347.8	2432.9
72.5°	195.3	198.4	214.2	291.3	1001.5	2166.8	3421.8	4532.0	4577.7	3993.5	2058.1
75°	154.3	155.9	170.1	198.4	526.0	1225.1	2563.6	3637.6	3673.8	3362.0	1607.8
77.5°	115.0	118.1	129.1	140.1	244.1	562.2	1442.4	2240.8	2181.0	1845.6	776.3
80°	83.5	91.3	96.1	100.8	129.1	217.3	433.0	781.1	774.8	806.3	366.9
82.5°	53.5	59.8	64.6	67.7	77.2	103.9	129.1	174.8	189.0	313.4	146.4
85°	23.6	26.8	29.9	36.2	33.1	36.2	53.5	34.6	29.9	47.2	26.8
87.5°	0.0	0.0	4.7	7.9	6.3	3.1	9.4	6.3	4.7	4.7	4.7
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°	993.6	993.6	993.6	993.6	993.6	993.6	993.6	993.6	993.6	993.6	993.6
2.5°	1003.1	985.8	949.6	914.9	894.4	867.7	844.0	822.0	820.4	814.1	803.1
5°	1015.7	982.6	914.9	850.3	801.5	749.6	705.5	670.8	658.2	648.8	636.2
7.5°	1028.3	976.3	875.5	781.1	703.9	631.5	579.5	532.3	518.1	505.5	497.6
10°	1033.0	965.3	829.9	703.9	603.1	526.0	470.8	436.2	423.6	417.3	412.6
12.5°	1047.2	959.0	787.4	631.5	514.9	444.1	404.7	384.2	379.5	374.8	370.1
15°	1066.1	959.0	744.8	560.6	445.6	389.0	365.3	351.2	348.0	346.4	343.3
17.5°	1086.6	959.0	703.9	500.8	395.3	352.7	335.4	327.5	326.0	324.4	322.8
20°	1114.9	960.6	659.8	448.8	359.0	326.0	311.8	302.3	300.8	299.2	299.2
22.5°	1143.2	963.7	617.3	409.4	335.4	305.5	288.2	278.7	275.6	275.6	275.6
25°	1179.5	973.2	577.9	376.4	314.9	286.6	264.6	256.7	255.1	255.1	253.5
27.5°	1222.0	984.2	543.3	351.2	294.5	264.6	242.5	234.6	231.5	231.5	229.9
30°	1267.6	995.2	514.9	332.3	274.0	242.5	222.0	212.6	209.4	211.0	209.4
32.5°	1318.0	1011.0	492.9	319.7	255.1	223.6	204.7	193.7	192.1	192.1	190.5
35°	1403.1	1055.1	489.7	313.4	239.4	209.4	190.5	179.5	177.9	177.9	176.4
37.5°	1494.4	1105.4	503.9	310.2	226.8	196.8	179.5	168.5	166.9	166.9	166.9
40°	1571.6	1143.2	519.7	310.2	218.9	185.8	170.1	160.6	160.6	160.6	160.6
42.5°	1623.5	1146.4	516.5	310.2	212.6	177.9	163.8	154.3	154.3	155.9	154.3
45°	1700.7	1162.1	503.9	305.5	207.9	171.6	157.5	149.6	148.0	149.6	149.6
47.5°	1792.0	1190.5	491.3	286.6	206.3	165.3	152.7	143.3	141.7	143.3	141.7
50°	1878.6	1215.7	485.0	261.4	203.1	159.0	146.4	137.0	135.4	137.0	135.4
52.5°	1951.1	1226.7	474.0	244.1	195.3	152.7	140.1	130.7	127.6	129.1	129.1
55°	2009.3	1223.6	458.2	229.9	181.1	146.4	132.3	124.4	119.7	119.7	118.1
57.5°	2062.9	1225.1	444.1	215.7	165.3	137.0	126.0	116.5	110.2	108.7	107.1
60°	2083.3	1217.3	418.9	196.8	149.6	129.1	118.1	107.1	100.8	99.2	97.6
62.5°	2055.0	1188.9	385.8	163.8	135.4	119.7	110.2	99.2	92.9	91.3	89.8
65°	1974.7	1135.4	335.4	129.1	122.8	108.7	100.8	92.9	85.0	81.9	80.3
67.5°	1837.7	1058.2	272.4	103.9	108.7	99.2	94.5	85.0	75.6	72.4	70.9
70°	1642.4	955.8	204.7	88.2	96.1	88.2	85.0	75.6	67.7	64.6	63.0
72.5°	1368.4	790.5	143.3	75.6	83.5	77.2	74.0	67.7	59.8	55.1	55.1
75°	1034.6	566.9	94.5	64.6	69.3	66.1	61.4	56.7	52.0	48.8	47.2
77.5°	445.6	220.5	58.3	48.8	56.7	55.1	48.8	45.7	44.1	40.9	40.9
80°	192.1	89.8	36.2	36.2	40.9	39.4	37.8	34.6	34.6	33.1	31.5
82.5°	70.9	36.2	22.0	26.8	29.9	26.8	26.8	26.8	26.8	25.2	25.2
85°	17.3	11.0	11.0	15.7	17.3	15.7	17.3	15.7	15.7	15.7	14.2
87.5°	4.7	4.7	6.3	6.3	6.3	6.3	6.3	4.7	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)