

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: P842607

Luminaire Tested: **ARCH4-70-730-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842607
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: ARCH4-70-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 605mA 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: 8702 lumens
Efficiency: N/A
Efficacy: 117.9 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): 73.8
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



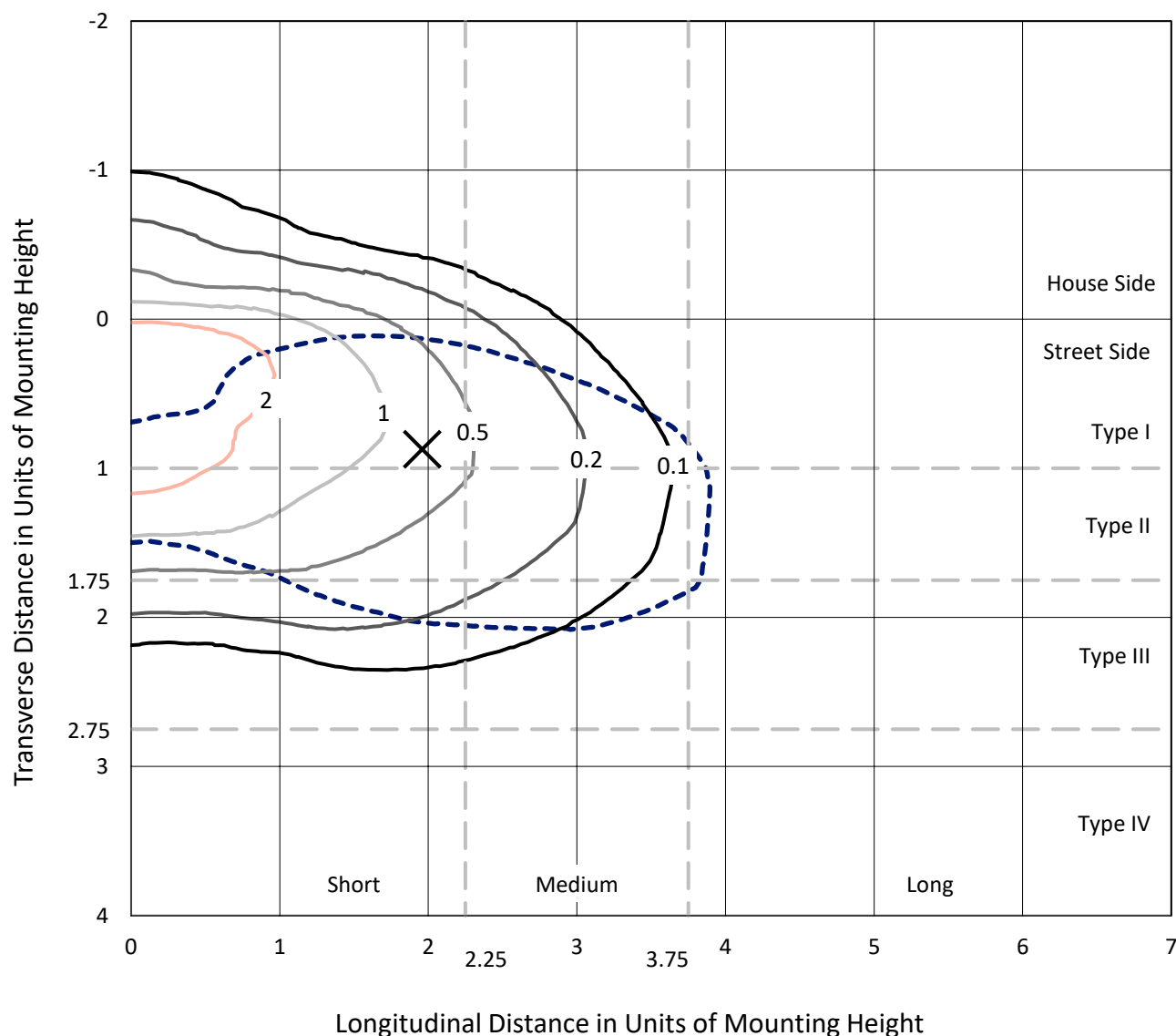
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



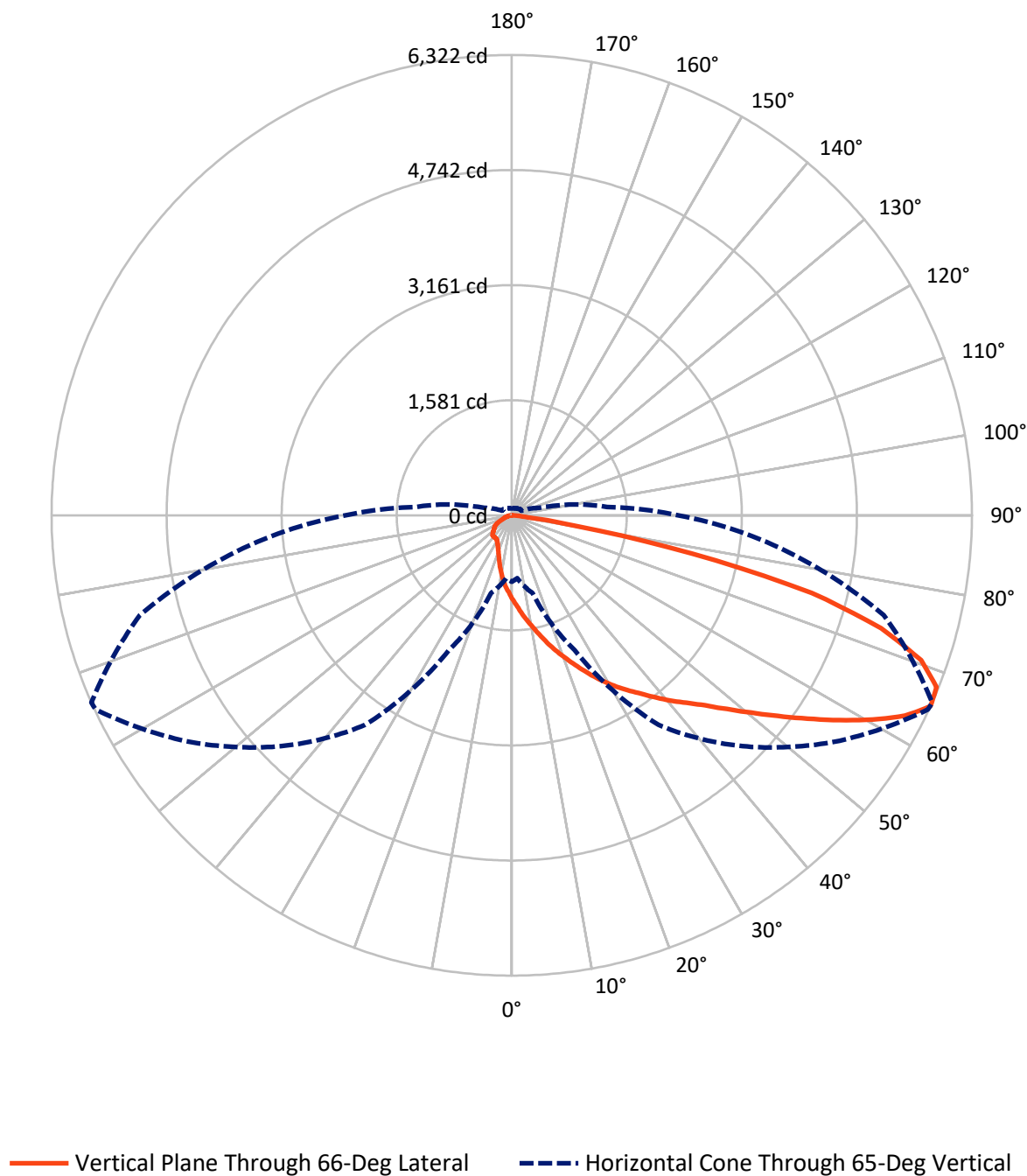
Based on 25 foot mounting height. Maximum calculated value = 3.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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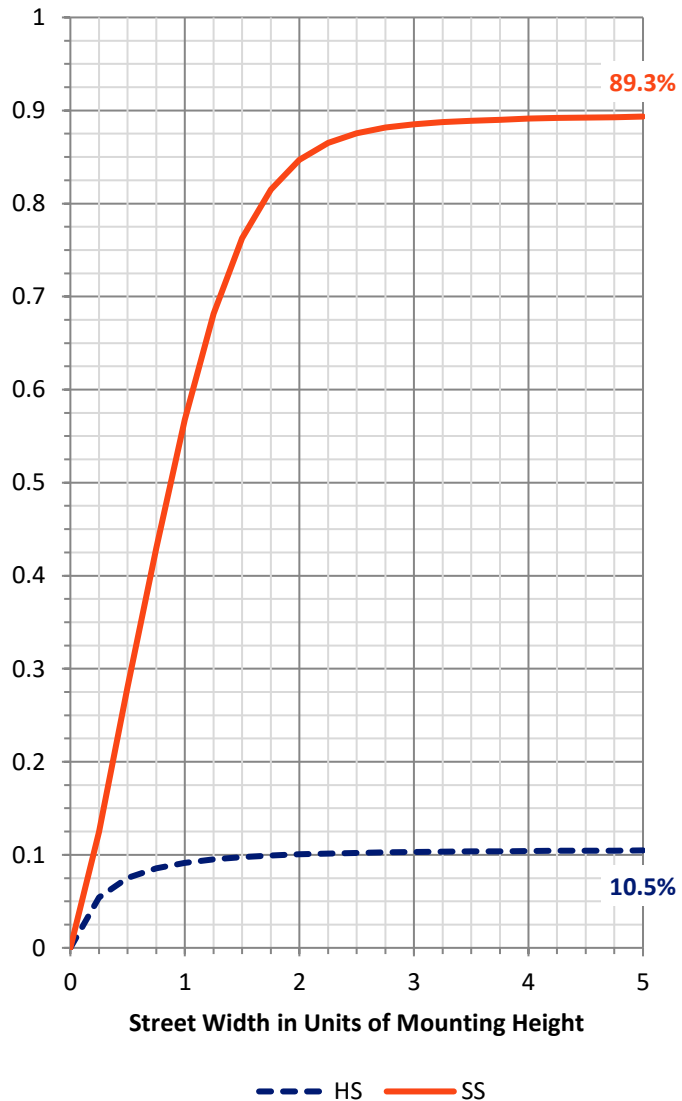
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	920.4	0.0	920.4
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	7781.6	0.0	7781.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	8702.0	0.0	8702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	1.3
10°-20°	370.5	4.3
20°-30°	670.3	7.7
30°-40°	1048.2	12.0
40°-50°	1590.1	18.3
50°-60°	2020.3	23.2
60°-70°	1887.7	21.7
70°-80°	938.2	10.8
80°-90°	63.0	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°	8702.0	100.0
0°-180°	8702.0	100.0

Coefficient of Utilization



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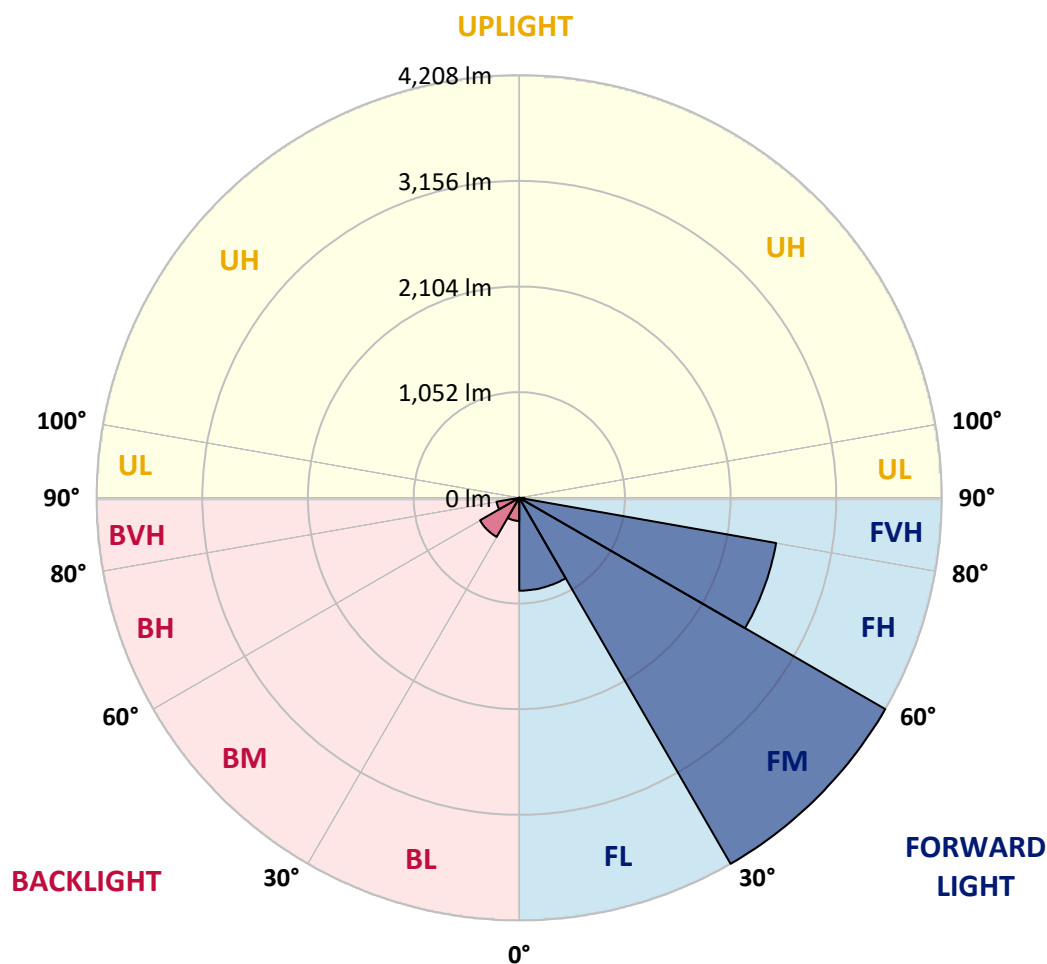
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	924.6	10.6			
FM	(30°-60°)	4208.4	48.4			
FH	(60°-80°)	2596.7	29.8			G2/5000
FVH	(80°-90°)	51.9	0.6			G1/100
BL	(0°-30°)	229.9	2.6	B1/500		
BM	(30°-60°)	450.2	5.2	B1/1000		
BH	(60°-80°)	229.2	2.6	B1/500		G1/500
BVH	(80°-90°)	11.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7
2.5°	1345.1	1356.1	1361.6	1363.4	1321.4	1303.1	1284.9	1242.9	1233.8	1210.1	1179.0
5°	1582.4	1597.0	1593.3	1586.0	1534.9	1476.5	1429.1	1350.6	1337.8	1281.2	1211.9
7.5°	1816.0	1828.8	1825.1	1797.8	1741.2	1659.1	1580.6	1465.6	1447.3	1356.1	1244.7
10°	2011.3	2022.3	2020.4	1993.1	1925.5	1825.1	1730.2	1576.9	1555.0	1425.4	1272.1
12.5°	2171.9	2186.5	2184.7	2166.4	2106.2	1996.7	1889.0	1704.7	1677.3	1509.4	1310.4
15°	2297.8	2316.1	2316.1	2308.8	2266.8	2175.6	2053.3	1845.2	1812.4	1606.1	1357.9
17.5°	2374.5	2389.1	2401.9	2414.7	2385.5	2316.1	2204.8	1985.7	1951.1	1701.0	1407.2
20°	2414.7	2429.3	2438.4	2465.8	2471.2	2436.6	2349.0	2124.5	2088.0	1808.7	1463.8
22.5°	2480.4	2493.1	2495.0	2518.7	2529.6	2538.8	2484.0	2261.3	2232.1	1927.3	1527.6
25°	2589.9	2604.5	2599.0	2609.9	2611.8	2622.7	2617.2	2418.3	2389.1	2062.4	1604.3
27.5°	2730.4	2748.7	2745.0	2734.1	2717.6	2708.5	2732.2	2577.1	2549.7	2197.5	1682.8
30°	2881.9	2903.8	2898.3	2876.4	2832.6	2794.3	2827.1	2726.8	2701.2	2336.2	1770.4
32.5°	3035.2	3060.8	3058.9	3022.4	2947.6	2881.9	2931.2	2867.3	2849.0	2485.8	1865.3
35°	3135.6	3168.4	3164.8	3142.9	3046.2	2989.6	3049.8	3011.5	2998.7	2668.4	2002.2
37.5°	3298.0	3332.7	3301.7	3246.9	3135.6	3106.4	3179.4	3173.9	3164.8	2861.8	2146.4
40°	3692.3	3743.4	3661.2	3436.7	3254.2	3228.7	3332.7	3354.6	3345.5	3053.5	2275.9
42.5°	4104.7	4181.4	4053.6	3743.4	3469.6	3376.5	3500.6	3531.6	3520.7	3217.7	2392.8
45°	4354.8	4387.6	4259.9	4019.0	3851.0	3555.4	3679.5	3730.6	3721.5	3414.8	2542.4
47.5°	4559.2	4546.4	4400.4	4238.0	4269.0	3807.2	3882.1	3982.5	3975.2	3632.0	2706.7
50°	4603.0	4573.8	4515.4	4413.2	4495.3	4062.8	4095.6	4269.0	4261.7	3872.9	2872.8
52.5°	4294.5	4256.2	4415.0	4500.8	4473.4	4248.9	4331.1	4582.9	4579.3	4133.9	3031.6
55°	3524.3	3493.3	3920.4	4363.9	4449.7	4380.3	4592.0	4909.6	4929.7	4411.4	3175.7
57.5°	2772.4	2739.5	3159.3	4020.8	4362.1	4500.8	4896.8	5283.8	5309.3	4712.5	3312.6
60°	2210.2	2161.0	2482.2	3480.5	4197.8	4593.9	5190.7	5694.4	5698.1	4988.1	3396.6
62.5°	1502.1	1447.3	1803.2	2796.1	3922.2	4608.5	5417.0	6048.5	6063.1	5194.3	3411.2
65°	912.6	866.9	1107.9	2042.3	3515.2	4484.4	5420.7	6309.5	6322.3	5289.2	3323.6
67.5°	529.3	511.0	633.3	1272.1	2839.9	4150.4	5192.5	6269.3	6293.1	5249.1	3124.6
70°	308.4	306.6	352.3	629.7	2004.0	3487.8	4683.3	5931.7	5966.4	5039.2	2819.8
72.5°	226.3	230.0	248.2	337.7	1160.8	2511.4	3966.0	5252.7	5305.7	4628.5	2385.5
75°	178.9	180.7	197.1	230.0	609.6	1420.0	2971.3	4216.1	4258.0	3896.7	1863.5
77.5°	133.2	136.9	149.7	162.4	282.9	651.6	1671.8	2597.2	2527.8	2139.1	899.8
80°	96.7	105.9	111.3	116.8	149.7	251.9	501.9	905.3	898.0	934.5	425.3
82.5°	62.1	69.4	74.8	78.5	89.4	120.5	149.7	202.6	219.0	363.2	169.7
85°	27.4	31.0	34.7	42.0	38.3	42.0	62.1	40.2	34.7	54.8	31.0
87.5°	0.0	0.0	5.5	9.1	7.3	3.7	11.0	7.3	5.5	5.5	5.5
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°	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7
2.5°	1162.6	1142.5	1100.6	1060.4	1036.7	1005.7	978.3	952.7	950.9	943.6	930.8
5°	1177.2	1138.9	1060.4	985.6	929.0	868.8	817.7	777.5	762.9	752.0	737.4
7.5°	1191.8	1131.6	1014.8	905.3	815.8	731.9	671.7	616.9	600.5	585.9	576.7
10°	1197.3	1118.8	961.8	815.8	699.0	609.6	545.7	505.6	491.0	483.7	478.2
12.5°	1213.7	1111.5	912.6	731.9	596.8	514.7	469.1	445.3	439.9	434.4	428.9
15°	1235.6	1111.5	863.3	649.7	516.5	450.8	423.4	407.0	403.4	401.5	397.9
17.5°	1259.3	1111.5	815.8	580.4	458.1	408.8	388.8	379.6	377.8	376.0	374.2
20°	1292.2	1113.3	764.7	520.2	416.1	377.8	361.4	350.4	348.6	346.8	346.8
22.5°	1325.1	1117.0	715.5	474.5	388.8	354.1	334.0	323.0	319.4	319.4	319.4
25°	1367.0	1127.9	669.8	436.2	365.0	332.2	306.6	297.5	295.7	295.7	293.8
27.5°	1416.3	1140.7	629.7	407.0	341.3	306.6	281.1	271.9	268.3	268.3	266.5
30°	1469.2	1153.5	596.8	385.1	317.6	281.1	257.3	246.4	242.7	244.6	242.7
32.5°	1527.6	1171.7	571.3	370.5	295.7	259.2	237.3	224.5	222.7	222.7	220.8
35°	1626.2	1222.8	567.6	363.2	277.4	242.7	220.8	208.1	206.2	206.2	204.4
37.5°	1732.1	1281.2	584.0	359.6	262.8	228.1	208.1	195.3	193.5	193.5	193.5
40°	1821.5	1325.1	602.3	359.6	253.7	215.4	197.1	186.2	186.2	186.2	186.2
42.5°	1881.7	1328.7	598.6	359.6	246.4	206.2	189.8	178.9	178.9	180.7	178.9
45°	1971.1	1347.0	584.0	354.1	240.9	198.9	182.5	173.4	171.6	173.4	173.4
47.5°	2077.0	1379.8	569.4	332.2	239.1	191.6	177.0	166.1	164.3	166.1	164.3
50°	2177.4	1409.0	562.1	303.0	235.4	184.3	169.7	158.8	157.0	158.8	157.0
52.5°	2261.3	1421.8	549.4	282.9	226.3	177.0	162.4	151.5	147.8	149.7	149.7
55°	2328.9	1418.1	531.1	266.5	209.9	169.7	153.3	144.2	138.7	138.7	136.9
57.5°	2390.9	1420.0	514.7	250.0	191.6	158.8	146.0	135.1	127.8	125.9	124.1
60°	2414.7	1410.8	485.5	228.1	173.4	149.7	136.9	124.1	116.8	115.0	113.2
62.5°	2381.8	1378.0	447.2	189.8	157.0	138.7	127.8	115.0	107.7	105.9	104.0
65°	2288.7	1315.9	388.8	149.7	142.4	125.9	116.8	107.7	98.6	94.9	93.1
67.5°	2129.9	1226.5	315.7	120.5	125.9	115.0	109.5	98.6	87.6	84.0	82.1
70°	1903.6	1107.9	237.3	102.2	111.3	102.2	98.6	87.6	78.5	74.8	73.0
72.5°	1586.0	916.2	166.1	87.6	96.7	89.4	85.8	78.5	69.4	63.9	63.9
75°	1199.1	657.0	109.5	74.8	80.3	76.7	71.2	65.7	60.2	56.6	54.8
77.5°	516.5	255.5	67.5	56.6	65.7	63.9	56.6	52.9	51.1	47.5	47.5
80°	222.7	104.0	42.0	42.0	47.5	45.6	43.8	40.2	40.2	38.3	36.5
82.5°	82.1	42.0	25.6	31.0	34.7	31.0	31.0	31.0	31.0	29.2	29.2
85°	20.1	12.8	12.8	18.3	20.1	18.3	20.1	18.3	18.3	18.3	16.4
87.5°	5.5	5.5	7.3	7.3	7.3	7.3	7.3	5.5	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)