

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: P799762

Luminaire Tested: **ARCH2-50-730-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-50-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

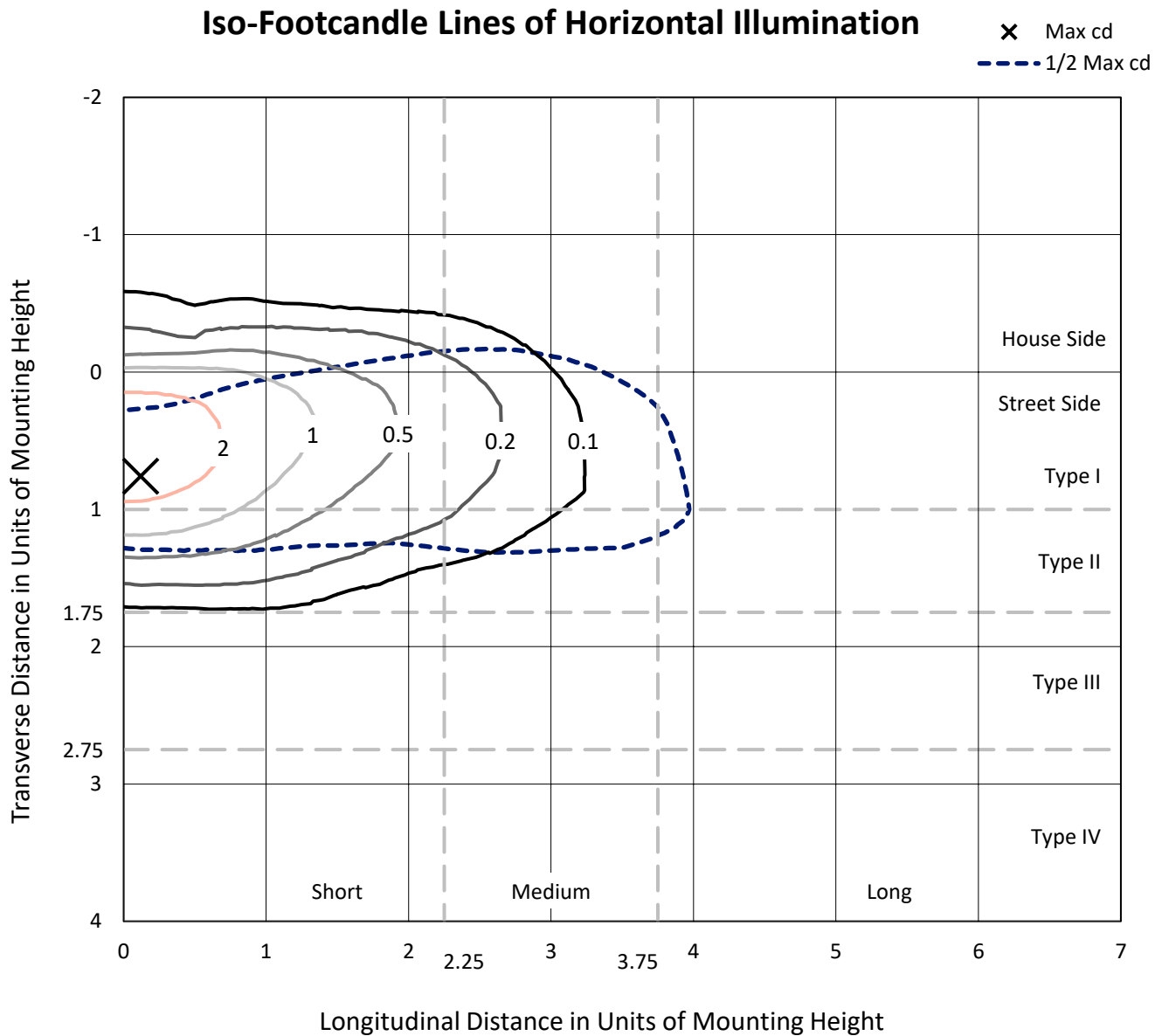
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5477 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 54
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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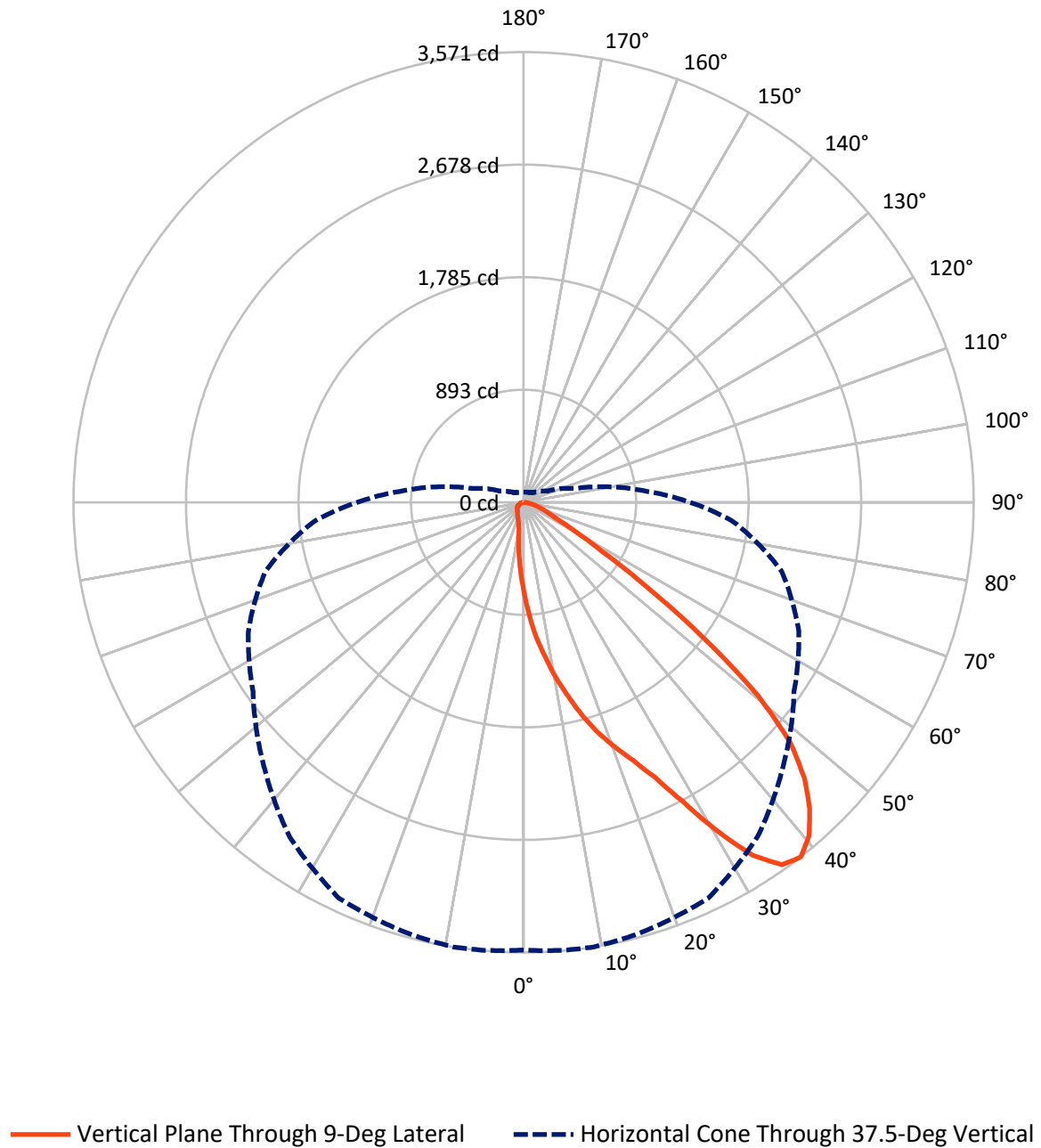


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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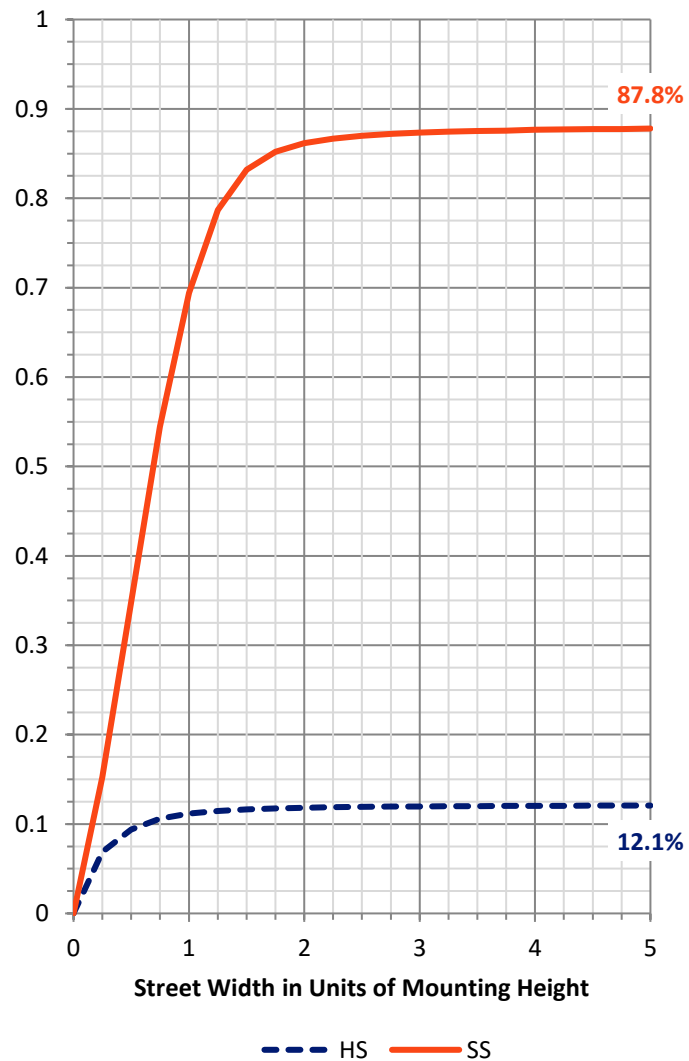
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	666.1	0.0	666.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4810.9	0.0	4810.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	5477.0	0.0	5477.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.3
10°-20°	252.9	4.6
20°-30°	519.7	9.5
30°-40°	918.6	16.8
40°-50°	1220.3	22.3
50°-60°	1157.4	21.1
60°-70°	883.0	16.1
70°-80°	428.1	7.8
80°-90°	24.1	0.4
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°	5477.0	100.0
0°-180°	5477.0	100.0

Coefficient of Utilization



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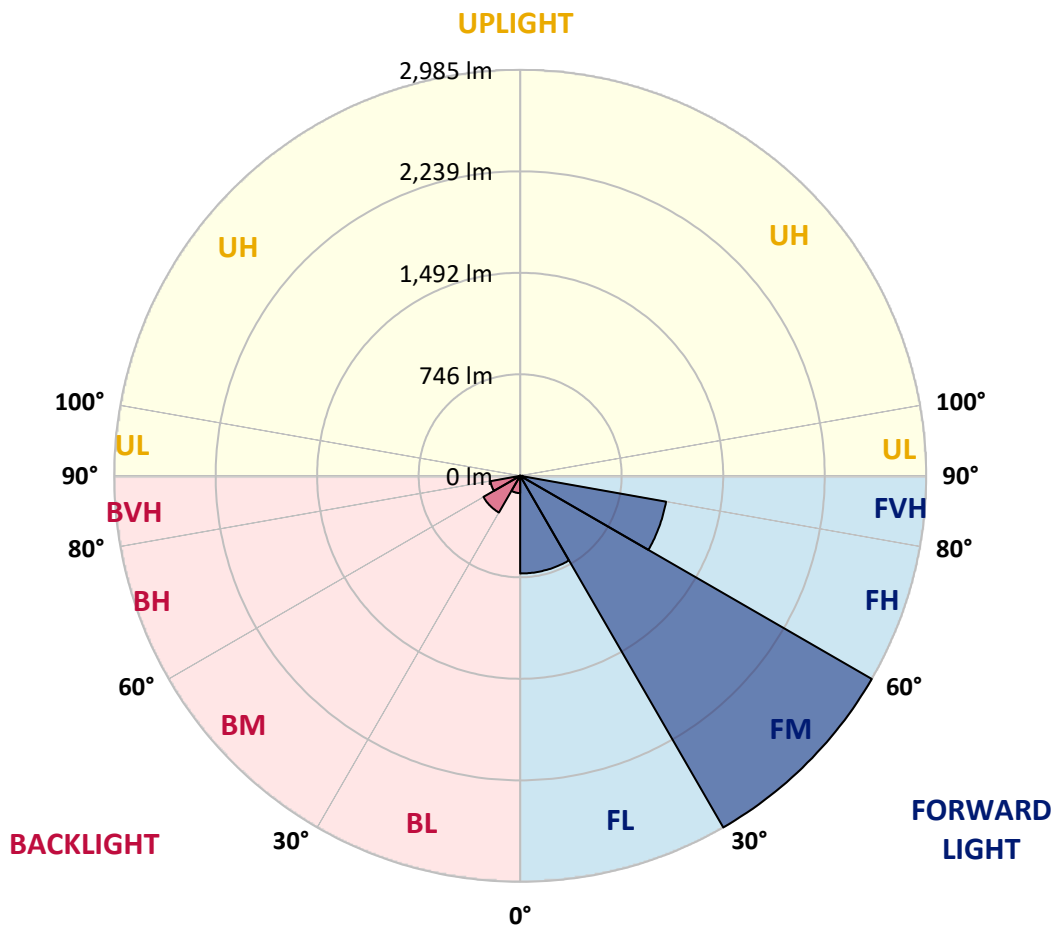
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	718.3	13.1			
FM	(30°-60°)	2984.7	54.5			
FH	(60°-80°)	1088.8	19.9			G1/1800
FVH	(80°-90°)	19.1	0.3			G1/100
BL	(0°-30°)	127.1	2.3	B1/500		
BM	(30°-60°)	311.7	5.7	B1/1000		
BH	(60°-80°)	222.3	4.1	B1/500		G1/500
BVH	(80°-90°)	5.0	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	724.0	724.0	724.0	724.0	724.0	724.0	724.0	724.0	724.0	724.0	724.0
2.5°	897.1	881.4	899.4	897.1	881.4	871.3	839.8	829.7	792.6	765.6	742.0
5°	1081.5	1065.8	1081.5	1077.0	1054.5	1029.8	978.1	944.3	878.0	819.6	766.7
7.5°	1234.4	1234.4	1241.1	1242.3	1215.3	1177.1	1113.0	1062.4	969.1	879.1	794.8
10°	1399.6	1400.8	1415.4	1405.3	1369.3	1317.6	1236.6	1172.6	1060.1	942.1	821.8
12.5°	1576.1	1577.3	1581.8	1577.3	1534.6	1468.2	1370.4	1286.1	1156.8	1014.0	858.9
15°	1752.6	1753.8	1759.4	1751.5	1704.3	1626.7	1515.4	1412.0	1259.1	1095.0	903.9
17.5°	1917.9	1920.2	1924.7	1914.5	1865.1	1772.9	1659.3	1534.6	1368.2	1181.5	954.5
20°	2066.3	2068.6	2071.9	2058.4	2009.0	1916.8	1794.2	1663.8	1479.5	1270.4	1009.5
22.5°	2215.8	2218.1	2223.7	2205.7	2150.6	2044.9	1924.7	1789.7	1597.5	1368.2	1073.6
25°	2406.9	2409.2	2413.7	2387.8	2312.5	2188.8	2061.8	1923.5	1725.7	1478.3	1152.3
27.5°	2686.9	2684.6	2684.6	2637.4	2508.1	2347.4	2200.1	2059.6	1863.9	1596.4	1238.9
30°	3033.1	3027.5	3024.1	2960.1	2775.7	2526.1	2341.7	2186.6	1996.6	1721.2	1332.2
32.5°	3343.4	3343.4	3336.7	3269.2	3073.6	2766.7	2492.4	2310.3	2124.8	1847.1	1428.9
35°	3526.7	3534.5	3531.2	3480.6	3337.8	3025.3	2695.9	2458.7	2259.7	1978.6	1544.7
37.5°	3551.4	3567.1	3570.5	3540.1	3464.8	3236.6	2921.8	2619.4	2408.1	2120.3	1657.1
40°	3451.3	3485.1	3485.1	3480.6	3453.6	3336.7	3111.8	2806.0	2561.0	2267.5	1770.6
42.5°	3297.3	3332.2	3327.7	3344.5	3337.8	3313.1	3218.6	2980.3	2713.9	2419.3	1874.1
45°	3096.1	3132.1	3123.1	3153.4	3166.9	3193.9	3207.4	3101.7	2864.5	2584.6	1989.9
47.5°	2773.4	2834.1	2847.6	2901.6	2957.8	3042.1	3106.2	3145.5	3005.0	2762.2	2115.8
50°	2296.8	2382.2	2409.2	2522.7	2676.8	2851.0	2954.4	3091.6	3104.0	2944.3	2251.8
52.5°	1644.7	1743.7	1785.3	1971.9	2288.9	2592.4	2779.1	2972.4	3142.2	3118.6	2399.1
55°	1063.5	1147.8	1188.3	1363.7	1785.3	2261.9	2572.2	2818.4	3120.8	3278.2	2567.7
57.5°	655.4	703.8	730.7	881.4	1269.2	1838.1	2301.3	2676.8	3055.6	3416.5	2743.1
60°	441.8	469.9	483.4	554.2	862.3	1373.8	1929.1	2528.4	2970.2	3509.8	2902.7
62.5°	293.4	302.4	315.9	359.7	568.9	964.6	1481.7	2263.0	2906.1	3515.4	3020.8
65°	227.1	231.6	237.2	256.3	350.8	674.5	1042.1	1833.6	2810.5	3396.2	3057.9
67.5°	178.7	183.2	190.0	200.1	254.1	457.6	709.4	1343.4	2614.9	3209.6	2997.2
70°	140.5	143.9	148.4	157.4	197.9	331.6	468.8	892.6	2220.3	3032.0	2806.0
72.5°	111.3	114.7	119.2	128.2	160.8	242.8	321.5	556.5	1712.2	2815.0	2438.4
75°	87.7	89.9	93.3	102.3	129.3	188.9	218.1	332.8	1163.6	2418.2	1899.9
77.5°	43.8	54.0	61.8	70.8	94.4	130.4	145.0	184.4	491.3	1241.1	906.1
80°	25.9	31.5	33.7	39.3	61.8	78.7	78.7	74.2	155.1	476.7	369.9
82.5°	14.6	20.2	21.4	22.5	37.1	45.0	36.0	27.0	31.5	159.6	107.9
85°	4.5	6.7	7.9	9.0	12.4	13.5	12.4	11.2	9.0	15.7	10.1
87.5°	0.0	0.0	0.0	0.0	1.1	2.2	2.2	2.2	3.4	3.4	3.4
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°	724.0	724.0	724.0	724.0	724.0	724.0	724.0	724.0	724.0	724.0	724.0
2.5°	728.5	713.9	685.8	659.9	635.2	617.2	600.3	584.6	573.3	564.4	563.2
5°	738.6	709.4	655.4	604.8	558.7	520.5	487.9	462.1	442.9	429.4	428.3
7.5°	752.1	707.1	625.1	549.7	481.2	426.1	378.9	344.0	319.3	309.2	301.3
10°	763.3	704.9	594.7	494.7	404.7	335.0	278.8	244.0	226.0	219.2	215.8
12.5°	782.5	707.1	568.9	444.1	338.4	256.3	213.6	194.5	186.6	181.0	179.9
15°	810.6	717.2	544.1	394.6	270.9	206.9	182.1	169.8	161.9	160.8	159.6
17.5°	838.7	726.2	521.6	344.0	224.8	179.9	163.0	152.9	147.3	146.1	146.1
20°	871.3	737.5	496.9	295.7	192.2	161.9	148.4	140.5	133.8	132.7	132.7
22.5°	909.5	753.2	473.3	252.9	170.9	148.4	137.2	128.2	122.5	121.4	121.4
25°	961.2	776.8	454.2	221.5	156.3	137.2	127.0	119.2	114.7	112.4	112.4
27.5°	1018.5	809.4	440.7	202.4	146.1	128.2	118.0	111.3	106.8	104.6	104.6
30°	1082.6	845.4	431.7	194.5	140.5	120.3	111.3	104.6	98.9	97.8	97.8
32.5°	1153.4	887.0	426.1	195.6	139.4	114.7	104.6	97.8	93.3	91.1	91.1
35°	1232.1	933.1	422.7	202.4	141.7	110.2	98.9	92.2	87.7	85.4	85.4
37.5°	1319.8	987.1	422.7	209.1	147.3	109.0	93.3	86.6	83.2	80.9	80.9
40°	1401.9	1044.4	427.2	217.0	152.9	109.0	88.8	83.2	78.7	76.4	76.4
42.5°	1466.0	1077.0	430.6	224.8	156.3	107.9	84.3	78.7	75.3	73.1	73.1
45°	1539.0	1111.8	423.8	228.2	156.3	105.7	80.9	75.3	71.9	69.7	69.7
47.5°	1620.0	1154.6	422.7	230.5	152.9	101.2	77.6	71.9	69.7	67.5	67.5
50°	1702.1	1201.8	425.0	229.3	148.4	94.4	73.1	69.7	66.3	64.1	64.1
52.5°	1795.4	1251.2	429.4	227.1	138.3	86.6	69.7	66.3	63.0	60.7	59.6
55°	1898.8	1305.2	438.4	222.6	124.8	78.7	66.3	63.0	58.5	56.2	55.1
57.5°	2018.0	1371.5	448.6	213.6	110.2	71.9	63.0	58.5	51.7	48.3	47.2
60°	2131.5	1446.9	459.8	192.2	95.6	65.2	59.6	52.8	46.1	43.8	42.7
62.5°	2238.3	1521.1	465.4	154.0	80.9	59.6	56.2	48.3	41.6	39.3	38.2
65°	2306.9	1602.0	453.1	104.6	66.3	55.1	51.7	45.0	38.2	34.9	34.9
67.5°	2311.4	1640.2	410.3	68.6	54.0	49.5	47.2	40.5	33.7	31.5	30.4
70°	2197.8	1582.9	313.7	54.0	45.0	42.7	42.7	36.0	29.2	27.0	25.9
72.5°	1937.0	1401.9	200.1	43.8	38.2	36.0	36.0	30.4	25.9	22.5	21.4
75°	1528.9	1081.5	106.8	36.0	31.5	30.4	28.1	24.7	21.4	19.1	18.0
77.5°	702.6	476.7	49.5	25.9	23.6	23.6	21.4	18.0	16.9	14.6	14.6
80°	277.7	161.9	24.7	16.9	15.7	15.7	15.7	12.4	12.4	10.1	9.0
82.5°	76.4	33.7	12.4	10.1	10.1	10.1	9.0	7.9	7.9	6.7	6.7
85°	7.9	5.6	5.6	5.6	5.6	4.5	4.5	3.4	2.2	2.2	2.2
87.5°	3.4	3.4	3.4	3.4	3.4	2.2	1.1	0.0	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)