

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: P799764

Luminaire Tested: **ARCH2-50-730-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-50-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

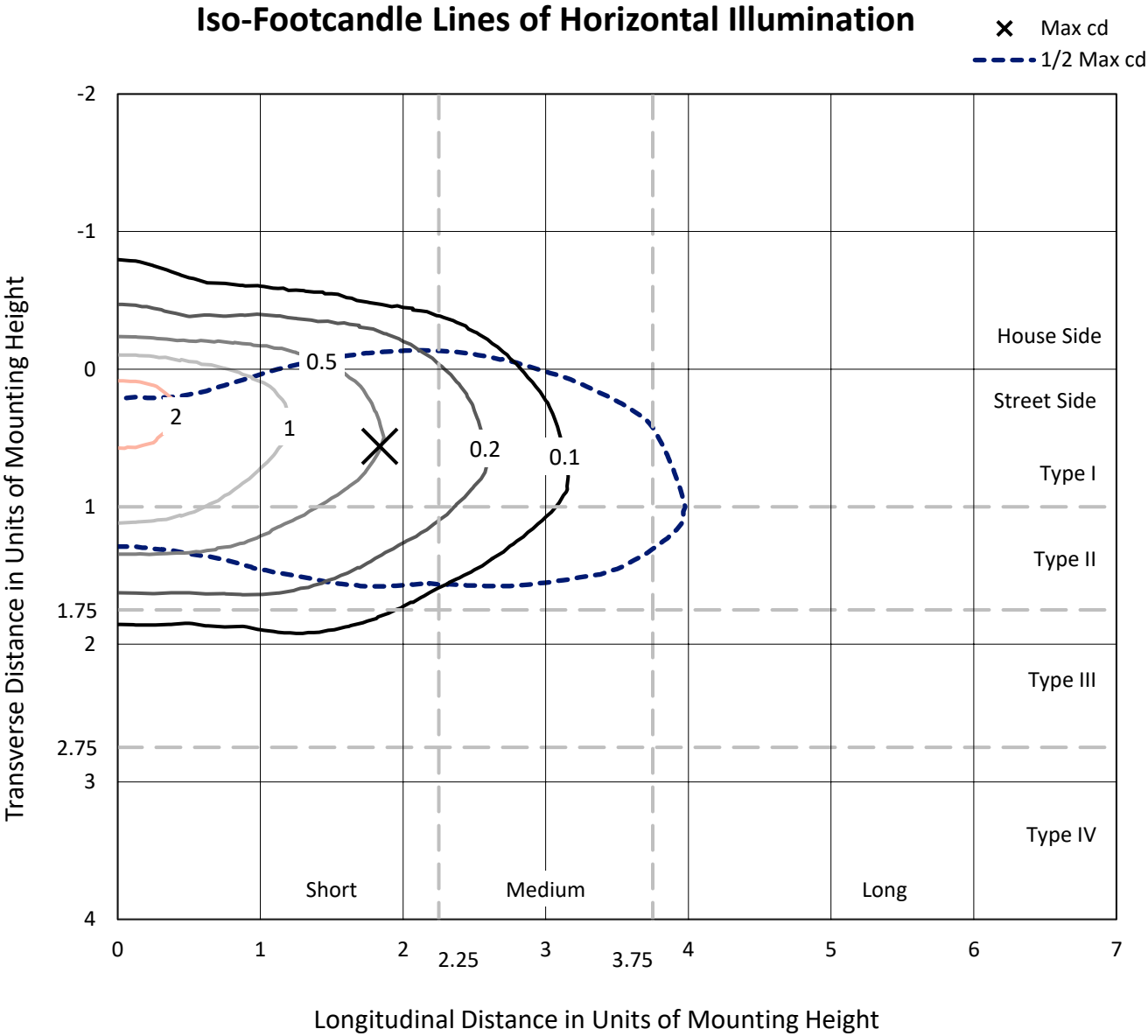
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5158 lumens
Efficiency: N/A
Efficacy: 95.5 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

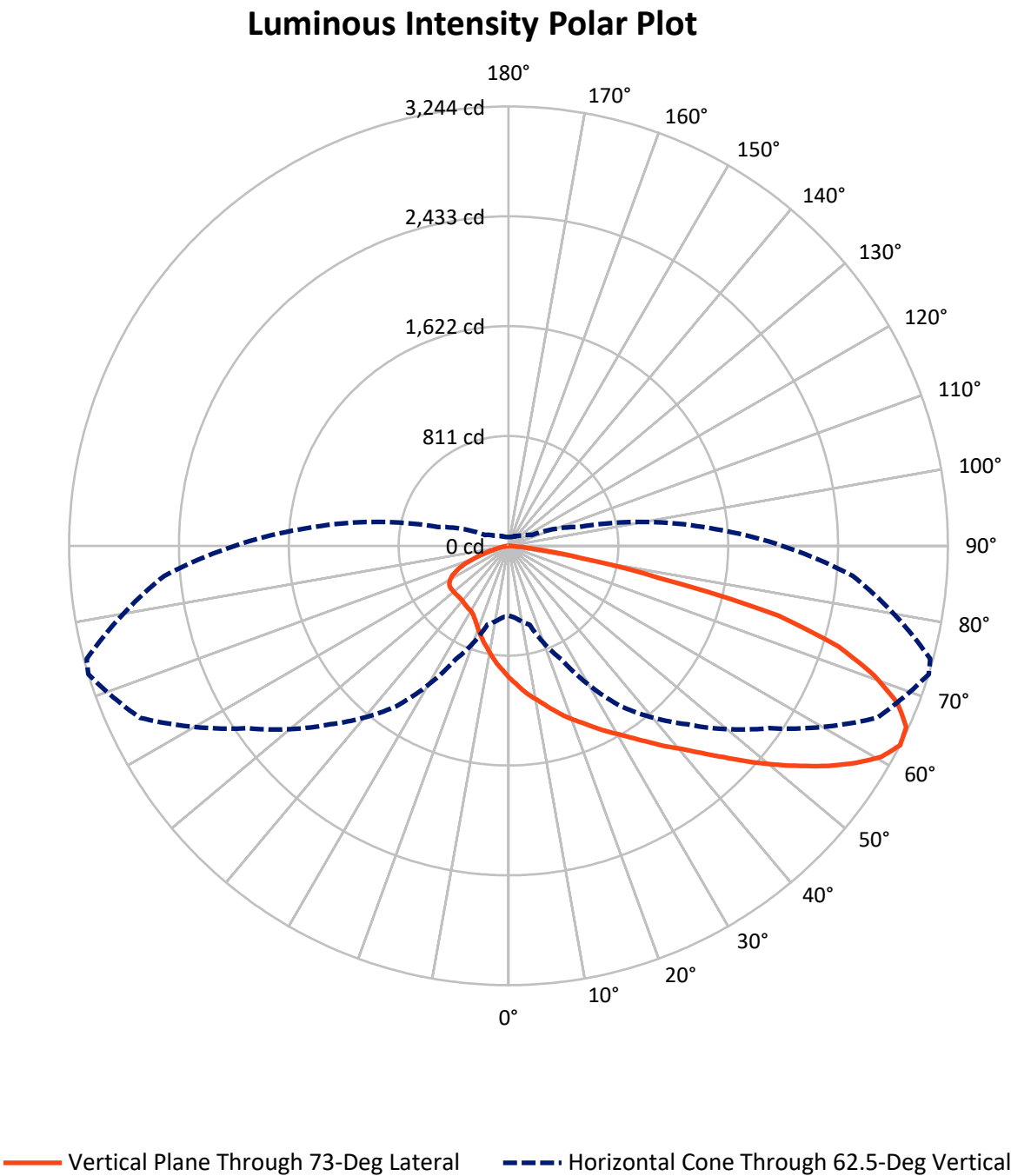


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Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type II - Short - N/A

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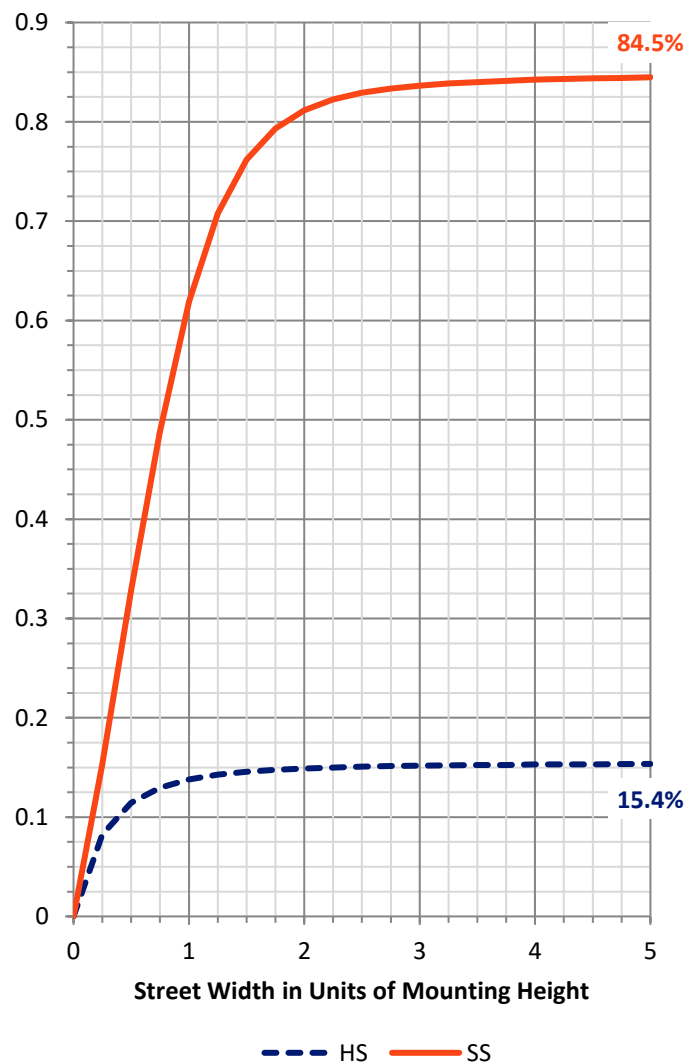
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	799.6	0.0	799.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	4358.4	0.0	4358.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	5158.0	0.0	5158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	1.8
10°-20°	284.7	5.5
20°-30°	473.9	9.2
30°-40°	715.1	13.9
40°-50°	999.5	19.4
50°-60°	1104.0	21.4
60°-70°	961.7	18.6
70°-80°	485.8	9.4
80°-90°	39.0	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°	5158.0	100.0
0°-180°	5158.0	100.0

Coefficient of Utilization



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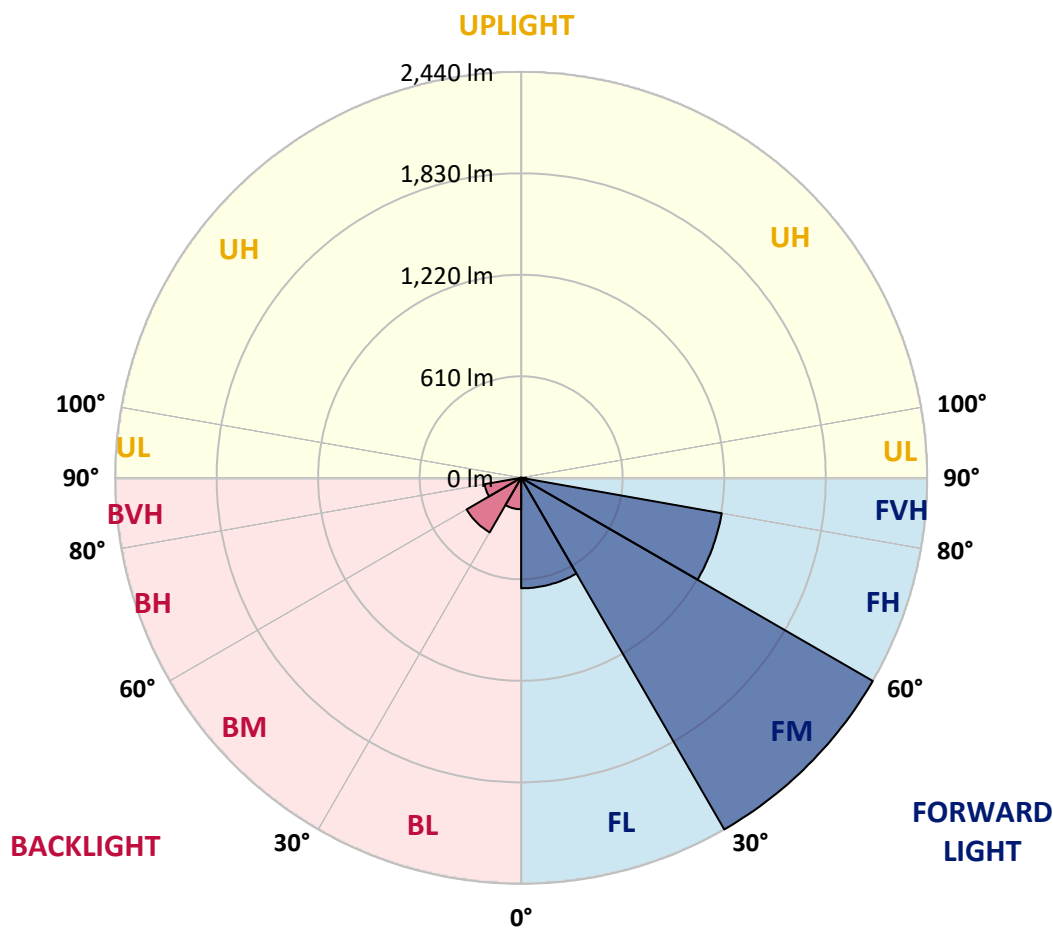
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	664.0	12.9			
FM	(30°-60°)	2439.9	47.3			
FH	(60°-80°)	1224.3	23.7			G1/1800
FVH	(80°-90°)	30.2	0.6			G1/100
BL	(0°-30°)	189.0	3.7	B1/500		
BM	(30°-60°)	378.6	7.3	B1/1000		
BH	(60°-80°)	223.2	4.3	B1/500		G1/500
BVH	(80°-90°)	8.8	0.2			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°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7
2.5°	1111.5	1123.9	1117.2	1121.7	1099.2	1084.6	1067.7	1035.1	1017.1	1014.9	993.5
5°	1274.5	1288.0	1276.8	1273.4	1234.1	1200.3	1162.1	1104.8	1066.6	1059.8	1012.6
7.5°	1437.5	1449.8	1436.4	1426.2	1373.4	1313.9	1257.7	1173.4	1113.8	1102.6	1028.4
10°	1552.1	1563.4	1553.2	1543.1	1488.1	1427.4	1347.6	1237.4	1156.5	1138.5	1038.5
12.5°	1638.7	1645.4	1640.9	1631.9	1580.2	1515.0	1438.6	1309.4	1204.8	1182.4	1054.2
15°	1709.5	1720.7	1715.1	1708.3	1658.9	1593.7	1520.7	1384.7	1261.0	1232.9	1077.8
17.5°	1756.7	1764.5	1765.7	1765.7	1721.8	1657.8	1587.0	1453.2	1317.2	1281.3	1100.3
20°	1778.0	1787.0	1792.6	1801.6	1765.7	1710.6	1638.7	1511.7	1370.0	1329.6	1121.7
22.5°	1788.1	1796.0	1810.6	1830.9	1801.6	1755.5	1689.2	1565.6	1422.9	1380.2	1146.4
25°	1796.0	1806.1	1827.5	1865.7	1845.5	1806.1	1748.8	1627.4	1485.8	1442.0	1182.4
27.5°	1817.4	1829.7	1850.0	1896.0	1871.3	1852.2	1811.7	1693.7	1552.1	1507.2	1226.2
30°	1891.5	1901.7	1900.5	1929.8	1899.4	1893.8	1865.7	1757.8	1616.2	1571.2	1277.9
32.5°	2026.4	2036.5	2011.8	2000.6	1934.2	1935.4	1924.1	1826.4	1692.6	1646.5	1337.5
35°	2171.4	2182.6	2150.0	2130.9	2019.7	1987.1	1992.7	1911.8	1778.0	1731.9	1411.6
37.5°	2300.6	2314.1	2286.0	2257.9	2145.5	2070.2	2069.1	2007.3	1875.8	1828.6	1493.7
40°	2371.5	2387.2	2404.0	2388.3	2270.3	2187.1	2151.2	2105.1	1972.5	1924.1	1582.5
42.5°	2405.2	2449.0	2479.3	2469.2	2372.6	2288.3	2245.6	2207.4	2090.5	2043.3	1688.1
45°	2310.8	2311.9	2375.9	2431.0	2413.0	2356.8	2349.0	2322.0	2225.3	2180.4	1807.2
47.5°	2192.7	2183.8	2228.7	2326.5	2377.1	2391.7	2437.8	2449.0	2379.3	2334.4	1928.6
50°	1909.5	1915.1	2061.3	2201.7	2300.6	2395.1	2500.7	2579.4	2537.8	2495.1	2056.8
52.5°	1553.2	1566.7	1734.2	2043.3	2199.5	2361.3	2537.8	2709.7	2699.6	2659.2	2184.9
55°	1245.3	1266.6	1444.2	1779.2	2070.2	2286.0	2553.5	2828.9	2867.1	2830.0	2310.8
57.5°	952.0	974.4	1123.9	1467.8	1905.0	2163.5	2542.3	2933.4	3023.3	2999.7	2426.5
60°	717.1	739.5	835.1	1190.2	1698.2	2026.4	2486.1	3002.0	3163.8	3139.1	2510.8
62.5°	513.6	531.6	602.4	926.1	1446.5	1863.4	2347.8	3003.1	3243.6	3223.4	2551.3
65°	369.8	369.8	427.1	660.9	1210.5	1667.9	2138.8	2864.8	3226.7	3221.1	2523.2
67.5°	266.4	268.6	314.7	461.9	965.4	1430.7	1867.9	2618.7	3096.4	3124.5	2422.0
70°	188.8	194.4	215.8	322.6	729.4	1129.5	1578.0	2296.1	2861.5	2910.9	2226.5
72.5°	146.1	149.5	164.1	224.8	532.7	839.6	1257.7	1936.5	2547.9	2604.1	1960.1
75°	112.4	115.8	127.0	165.2	382.1	588.9	893.5	1502.7	2054.5	2154.5	1574.6
77.5°	82.0	86.5	94.4	120.3	222.5	374.3	541.7	845.2	1134.0	1181.2	825.0
80°	38.2	43.8	55.1	77.5	120.3	176.5	192.2	325.9	545.1	569.8	447.3
82.5°	21.4	27.0	31.5	47.2	60.7	62.9	65.2	82.0	205.7	227.0	187.7
85°	10.1	13.5	14.6	20.2	20.2	18.0	21.4	15.7	33.7	40.5	39.3
87.5°	0.0	1.1	2.2	5.6	4.5	3.4	3.4	3.4	3.4	4.5	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°	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7
2.5°	983.4	968.8	935.1	905.9	886.8	869.9	847.4	837.3	819.3	822.7	812.6
5°	989.0	962.1	902.5	847.4	807.0	771.0	731.7	709.2	684.5	682.2	674.3
7.5°	992.4	950.8	865.4	787.9	726.0	671.0	618.2	588.9	558.6	551.8	545.1
10°	989.0	934.0	827.2	726.0	644.0	575.4	515.9	478.8	447.3	439.4	432.7
12.5°	992.4	925.0	791.2	668.7	570.9	493.4	426.0	387.7	358.5	350.7	346.2
15°	1000.3	919.4	760.9	617.0	505.8	419.2	352.9	320.3	296.7	288.8	286.6
17.5°	1007.0	913.7	728.3	566.5	440.6	354.0	296.7	269.7	249.5	241.6	239.4
20°	1016.0	905.9	695.7	518.1	383.3	302.3	251.8	228.2	212.4	206.8	205.7
22.5°	1023.9	900.3	665.4	469.8	330.4	260.7	218.0	198.9	187.7	182.1	182.1
25°	1044.1	902.5	639.5	424.8	291.1	228.2	192.2	177.6	168.6	165.2	165.2
27.5°	1067.7	911.5	619.3	386.6	257.4	203.4	174.2	161.8	157.3	152.9	154.0
30°	1101.4	929.5	605.8	355.2	232.6	184.3	159.6	150.6	146.1	145.0	145.0
32.5°	1144.1	958.7	604.7	334.9	214.7	169.7	149.5	141.6	139.4	138.2	138.2
35°	1194.7	984.5	597.9	325.9	203.4	159.6	141.6	136.0	134.9	134.9	134.9
37.5°	1255.4	1027.3	593.4	313.6	197.8	154.0	136.0	131.5	131.5	131.5	131.5
40°	1318.3	1062.1	586.7	302.3	195.6	150.6	132.6	127.0	127.0	127.0	127.0
42.5°	1393.6	1112.7	584.4	296.7	192.2	148.4	128.1	121.4	122.5	122.5	123.6
45°	1484.7	1170.0	583.3	291.1	191.1	146.1	123.6	115.8	116.9	115.8	115.8
47.5°	1576.8	1236.3	586.7	287.7	189.9	143.9	120.3	110.1	110.1	109.0	109.0
50°	1673.5	1297.0	588.9	284.3	187.7	139.4	114.6	105.6	103.4	101.2	102.3
52.5°	1764.5	1353.2	590.1	278.7	180.9	132.6	110.1	100.0	96.7	93.3	94.4
55°	1855.6	1407.1	592.3	272.0	172.0	125.9	104.5	94.4	89.9	85.4	85.4
57.5°	1937.6	1454.3	586.7	255.1	161.8	119.1	98.9	87.7	80.9	76.4	76.4
60°	1993.8	1488.1	569.8	230.4	148.4	111.3	93.3	80.9	73.1	69.7	69.7
62.5°	2020.8	1493.7	539.5	189.9	131.5	103.4	86.5	74.2	67.4	65.2	65.2
65°	1994.9	1469.0	492.3	142.7	113.5	94.4	79.8	68.6	61.8	56.2	56.2
67.5°	1905.0	1399.3	427.1	107.9	96.7	85.4	73.1	62.9	55.1	50.6	50.6
70°	1724.1	1254.3	330.4	86.5	82.0	74.2	66.3	56.2	49.5	43.8	43.8
72.5°	1486.9	1063.2	232.6	69.7	69.7	62.9	56.2	49.5	42.7	38.2	38.2
75°	1140.8	786.7	156.2	56.2	57.3	52.8	46.1	40.5	36.0	32.6	32.6
77.5°	622.6	388.9	95.5	41.6	42.7	40.5	36.0	32.6	30.3	27.0	27.0
80°	302.3	170.8	55.1	29.2	30.3	29.2	27.0	23.6	23.6	21.4	21.4
82.5°	127.0	64.1	29.2	20.2	20.2	18.0	16.9	16.9	16.9	15.7	15.7
85°	31.5	12.4	12.4	11.2	11.2	11.2	10.1	10.1	10.1	7.9	9.0
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	3.4	1.1	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)