

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: P799620

Luminaire Tested: **ARCH2-40-727-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799620
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: ARCH2-40-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

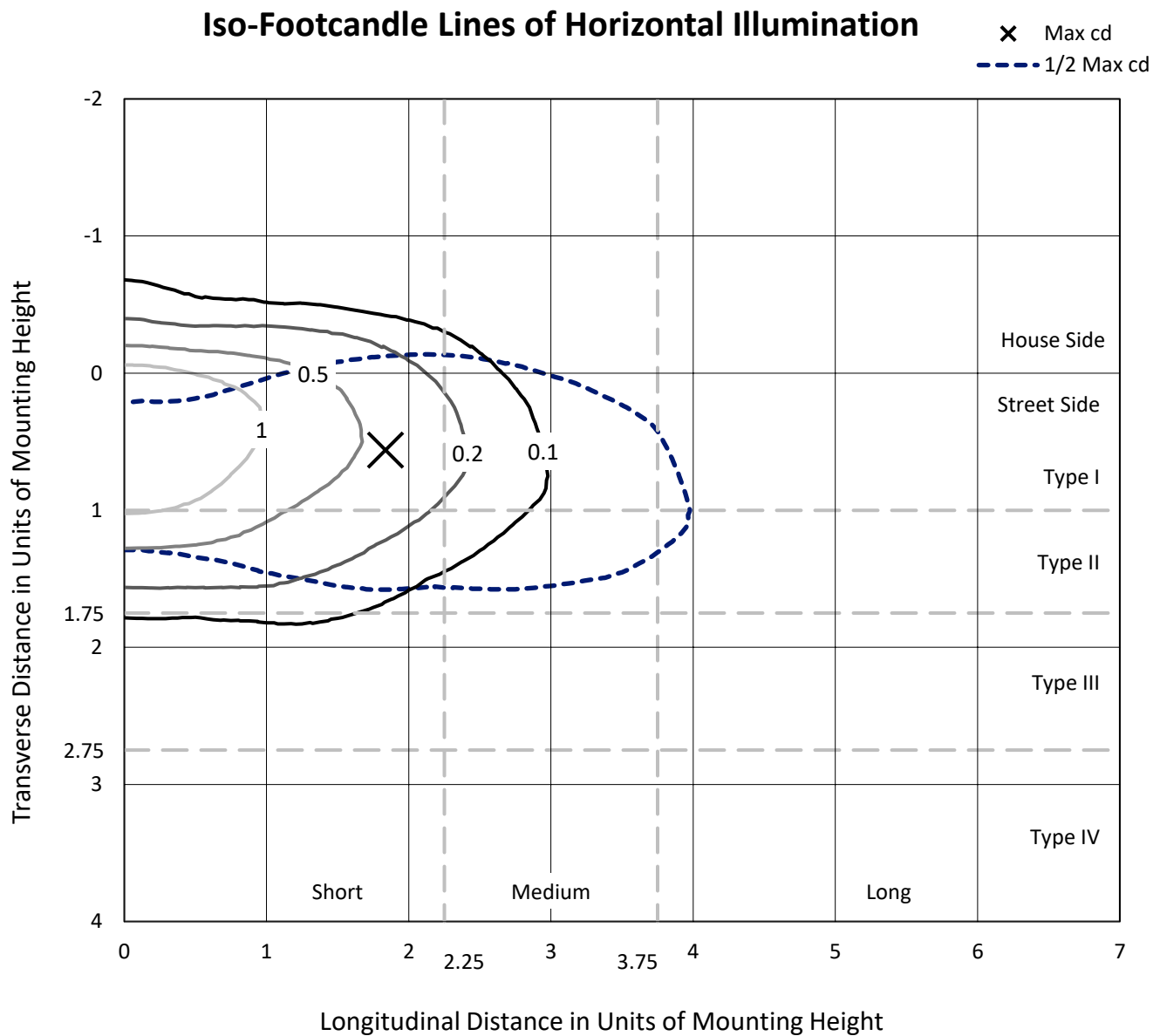
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4156 lumens
Efficiency: N/A
Efficacy: 94.2 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): 44.1
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

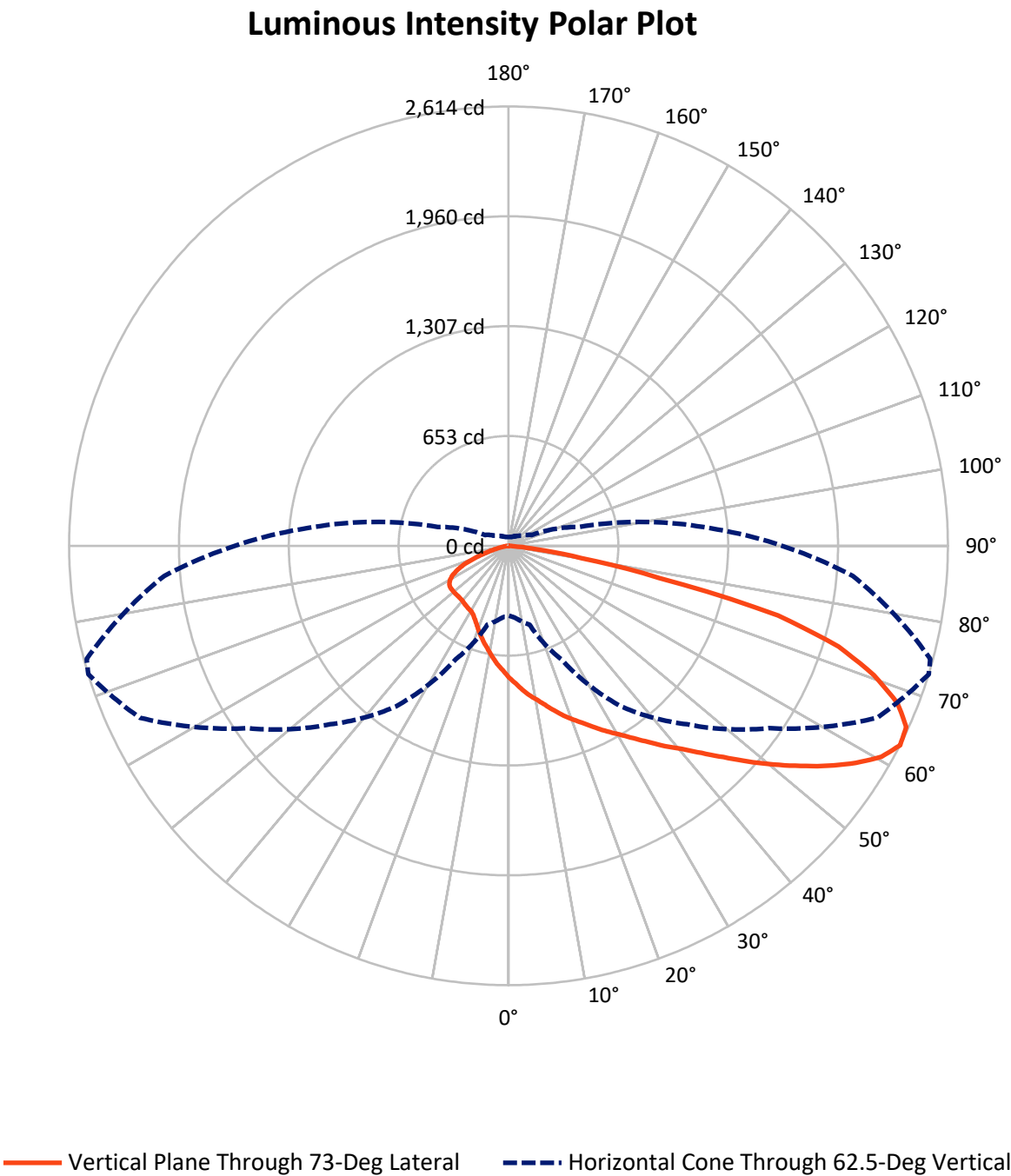


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Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type II - Short - N/A

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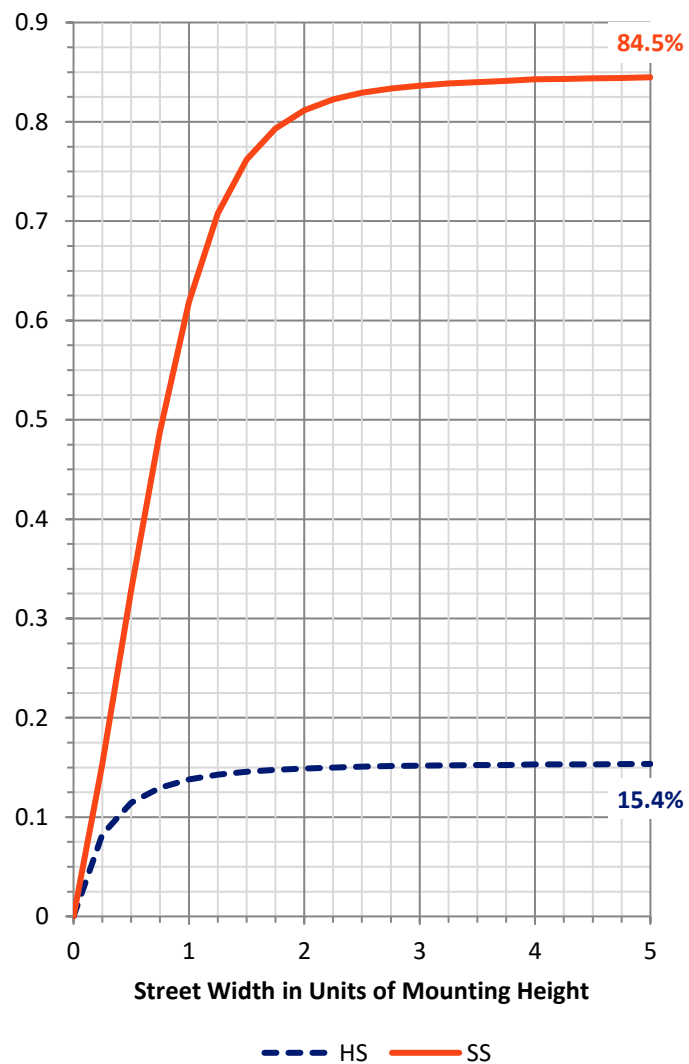
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	644.2	0.0	644.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	3511.8	0.0	3511.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	4156.0	0.0	4156.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	1.8
10°-20°	229.4	5.5
20°-30°	381.9	9.2
30°-40°	576.2	13.9
40°-50°	805.3	19.4
50°-60°	889.5	21.4
60°-70°	774.9	18.6
70°-80°	391.4	9.4
80°-90°	31.4	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°	4156.0	100.0
0°-180°	4156.0	100.0

Coefficient of Utilization



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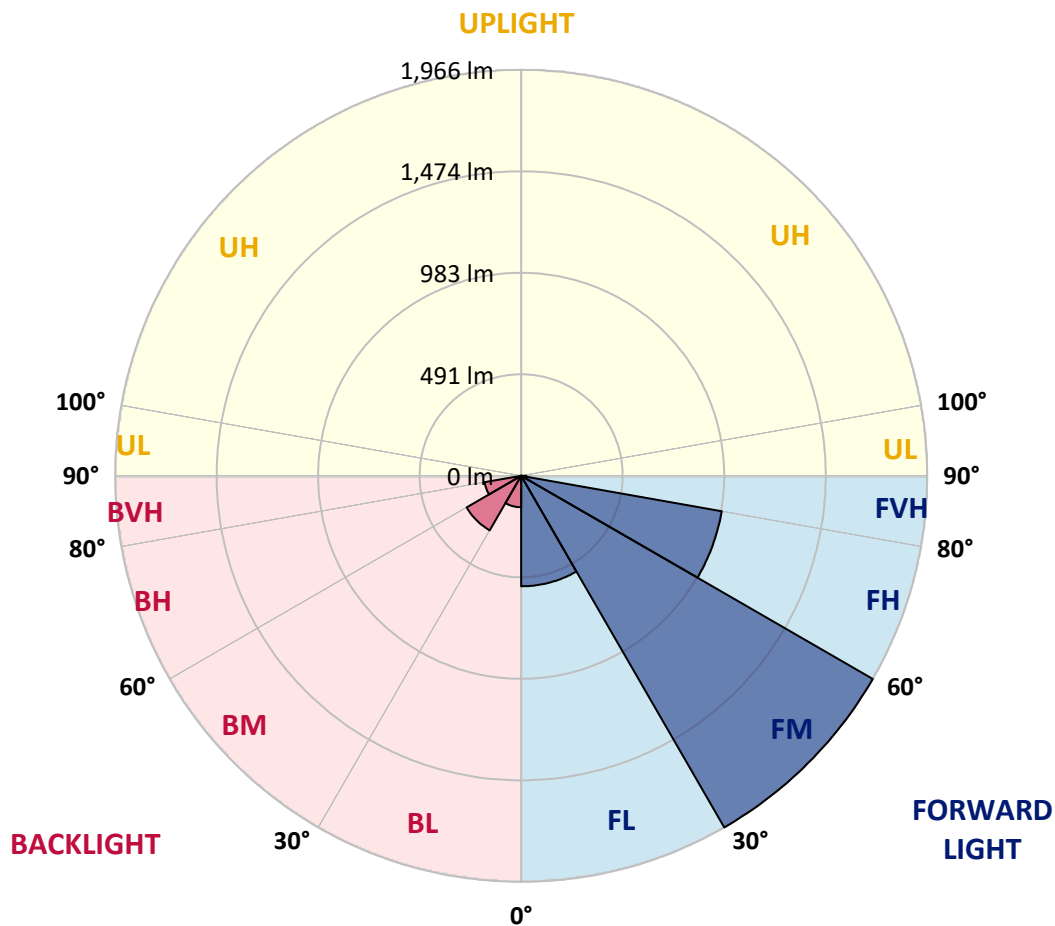
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	535.0	12.9			
FM	(30°-60°)	1965.9	47.3			
FH	(60°-80°)	986.5	23.7			G1/1800
FVH	(80°-90°)	24.3	0.6			G1/100
BL	(0°-30°)	152.3	3.7	B1/500		
BM	(30°-60°)	305.0	7.3	B1/1000		
BH	(60°-80°)	179.8	4.3	B1/500		G1/500
BVH	(80°-90°)	7.1	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°	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9
2.5°	895.6	905.6	900.1	903.8	885.7	873.9	860.3	834.0	819.5	817.7	800.5
5°	1026.9	1037.8	1028.7	1026.0	994.3	967.2	936.4	890.2	859.4	854.0	815.9
7.5°	1158.2	1168.2	1157.3	1149.2	1106.6	1058.6	1013.3	945.4	897.4	888.4	828.6
10°	1250.6	1259.7	1251.5	1243.4	1199.0	1150.1	1085.8	997.0	931.8	917.4	836.8
12.5°	1320.3	1325.8	1322.1	1314.9	1273.2	1220.7	1159.1	1055.0	970.8	952.7	849.4
15°	1377.4	1386.4	1381.9	1376.5	1336.6	1284.1	1225.2	1115.7	1016.1	993.4	868.4
17.5°	1415.4	1421.8	1422.7	1422.7	1387.3	1335.7	1278.7	1170.9	1061.3	1032.4	886.6
20°	1432.6	1439.9	1444.4	1451.6	1422.7	1378.3	1320.3	1218.0	1103.9	1071.3	903.8
22.5°	1440.8	1447.1	1458.9	1475.2	1451.6	1414.5	1361.1	1261.5	1146.5	1112.0	923.7
25°	1447.1	1455.3	1472.5	1503.3	1487.0	1455.3	1409.1	1311.3	1197.2	1161.9	952.7
27.5°	1464.3	1474.3	1490.6	1527.7	1507.8	1492.4	1459.8	1364.7	1250.6	1214.4	988.0
30°	1524.1	1532.2	1531.3	1554.9	1530.4	1525.9	1503.3	1416.3	1302.2	1266.0	1029.6
32.5°	1632.8	1640.9	1621.0	1611.9	1558.5	1559.4	1550.3	1471.6	1363.8	1326.7	1077.6
35°	1749.6	1758.6	1732.4	1717.0	1627.3	1601.1	1605.6	1540.4	1432.6	1395.5	1137.4
37.5°	1853.7	1864.6	1841.9	1819.3	1728.7	1668.1	1667.2	1617.4	1511.4	1473.4	1203.5
40°	1910.8	1923.4	1937.0	1924.4	1829.3	1762.3	1733.3	1696.1	1589.3	1550.3	1275.1
42.5°	1937.9	1973.3	1997.7	1989.6	1911.7	1843.8	1809.3	1778.6	1684.4	1646.3	1360.2
45°	1861.9	1862.8	1914.4	1958.8	1944.3	1899.0	1892.7	1870.9	1793.0	1756.8	1456.2
47.5°	1766.8	1759.5	1795.8	1874.5	1915.3	1927.1	1964.2	1973.3	1917.1	1880.9	1554.0
50°	1538.6	1543.1	1660.8	1774.0	1853.7	1929.8	2014.9	2078.3	2044.8	2010.4	1657.2
52.5°	1251.5	1262.4	1397.3	1646.3	1772.2	1902.6	2044.8	2183.3	2175.2	2142.6	1760.4
55°	1003.4	1020.6	1163.7	1433.5	1668.1	1841.9	2057.5	2279.3	2310.1	2280.2	1861.9
57.5°	767.0	785.1	905.6	1182.7	1535.0	1743.2	2048.4	2363.6	2436.0	2417.0	1955.1
60°	577.8	595.9	672.8	959.0	1368.3	1632.8	2003.1	2418.8	2549.2	2529.3	2023.1
62.5°	413.8	428.3	485.4	746.2	1165.5	1501.4	1891.8	2419.7	2613.5	2597.2	2055.7
65°	297.9	297.9	344.1	532.5	975.3	1343.9	1723.3	2308.3	2599.9	2595.4	2033.0
67.5°	214.6	216.4	253.6	372.2	777.9	1152.8	1505.1	2110.0	2494.9	2517.5	1951.5
70°	152.1	156.7	173.9	259.9	587.7	910.1	1271.4	1850.1	2305.6	2345.4	1794.0
72.5°	117.7	120.4	132.2	181.1	429.2	676.5	1013.3	1560.3	2052.9	2098.2	1579.3
75°	90.6	93.3	102.3	133.1	307.9	474.5	719.9	1210.8	1655.4	1736.0	1268.7
77.5°	66.1	69.7	76.1	96.9	179.3	301.6	436.5	681.0	913.7	951.8	664.7
80°	30.8	35.3	44.4	62.5	96.9	142.2	154.9	262.6	439.2	459.1	360.4
82.5°	17.2	21.7	25.4	38.0	48.9	50.7	52.5	66.1	165.7	182.9	151.2
85°	8.2	10.9	11.8	16.3	16.3	14.5	17.2	12.7	27.2	32.6	31.7
87.5°	0.0	0.9	1.8	4.5	3.6	2.7	2.7	2.7	2.7	3.6	2.7
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°	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9
2.5°	792.4	780.6	753.4	729.9	714.5	700.9	682.8	674.7	660.2	662.9	654.7
5°	796.9	775.2	727.2	682.8	650.2	621.2	589.5	571.4	551.5	549.7	543.3
7.5°	799.6	766.1	697.3	634.8	585.0	540.6	498.1	474.5	450.1	444.6	439.2
10°	796.9	752.5	666.5	585.0	518.9	463.7	415.7	385.8	360.4	354.1	348.6
12.5°	799.6	745.3	637.5	538.8	460.0	397.5	343.2	312.4	288.9	282.5	278.9
15°	806.0	740.8	613.1	497.2	407.5	337.8	284.4	258.1	239.1	232.7	230.9
17.5°	811.4	736.2	586.8	456.4	355.0	285.3	239.1	217.3	201.0	194.7	192.9
20°	818.6	729.9	560.6	417.5	308.8	243.6	202.8	183.8	171.2	166.6	165.7
22.5°	825.0	725.4	536.1	378.5	266.2	210.1	175.7	160.3	151.2	146.7	146.7
25°	841.3	727.2	515.3	342.3	234.5	183.8	154.9	143.1	135.8	133.1	133.1
27.5°	860.3	734.4	499.0	311.5	207.4	163.9	140.4	130.4	126.8	123.2	124.1
30°	887.5	748.9	488.1	286.2	187.5	148.5	128.6	121.3	117.7	116.8	116.8
32.5°	921.9	772.5	487.2	269.9	173.0	136.7	120.4	114.1	112.3	111.4	111.4
35°	962.6	793.3	481.8	262.6	163.9	128.6	114.1	109.6	108.7	108.7	108.7
37.5°	1011.5	827.7	478.1	252.7	159.4	124.1	109.6	106.0	106.0	106.0	106.0
40°	1062.2	855.8	472.7	243.6	157.6	121.3	106.9	102.3	102.3	102.3	102.3
42.5°	1122.9	896.5	470.9	239.1	154.9	119.5	103.2	97.8	98.7	98.7	99.6
45°	1196.3	942.7	470.0	234.5	153.9	117.7	99.6	93.3	94.2	93.3	93.3
47.5°	1270.5	996.1	472.7	231.8	153.0	115.9	96.9	88.7	88.7	87.8	87.8
50°	1348.4	1045.0	474.5	229.1	151.2	112.3	92.4	85.1	83.3	81.5	82.4
52.5°	1421.8	1090.3	475.4	224.6	145.8	106.9	88.7	80.6	77.9	75.2	76.1
55°	1495.1	1133.8	477.2	219.1	138.6	101.4	84.2	76.1	72.4	68.8	68.8
57.5°	1561.2	1171.8	472.7	205.6	130.4	96.0	79.7	70.6	65.2	61.6	61.6
60°	1606.5	1199.0	459.1	185.6	119.5	89.7	75.2	65.2	58.9	56.1	56.1
62.5°	1628.2	1203.5	434.7	153.0	106.0	83.3	69.7	59.8	54.3	52.5	52.5
65°	1607.4	1183.6	396.6	115.0	91.5	76.1	64.3	55.2	49.8	45.3	45.3
67.5°	1535.0	1127.4	344.1	86.9	77.9	68.8	58.9	50.7	44.4	40.8	40.8
70°	1389.2	1010.6	266.2	69.7	66.1	59.8	53.4	45.3	39.8	35.3	35.3
72.5°	1198.1	856.7	187.5	56.1	56.1	50.7	45.3	39.8	34.4	30.8	30.8
75°	919.2	633.9	125.9	45.3	46.2	42.6	37.1	32.6	29.0	26.3	26.3
77.5°	501.7	313.3	77.0	33.5	34.4	32.6	29.0	26.3	24.5	21.7	21.7
80°	243.6	137.6	44.4	23.5	24.5	23.5	21.7	19.0	19.0	17.2	17.2
82.5°	102.3	51.6	23.5	16.3	16.3	14.5	13.6	13.6	13.6	12.7	12.7
85°	25.4	10.0	10.0	9.1	9.1	9.1	8.2	8.2	8.2	6.3	7.2
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	2.7	0.9	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)