

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: P1210618

Luminaire Tested: **ARCH3-180-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-180-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15913 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

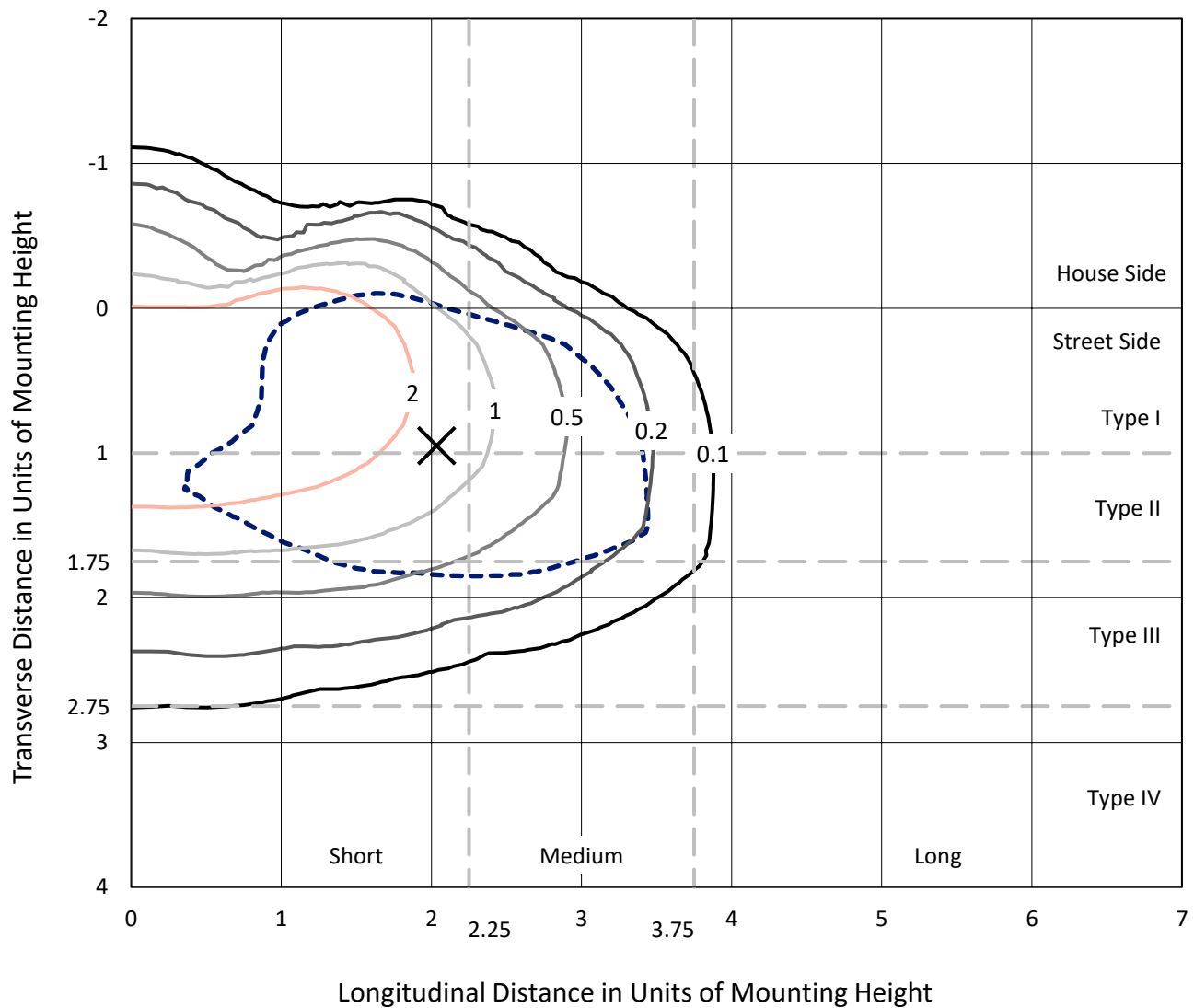
Input Watts (W): 180.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

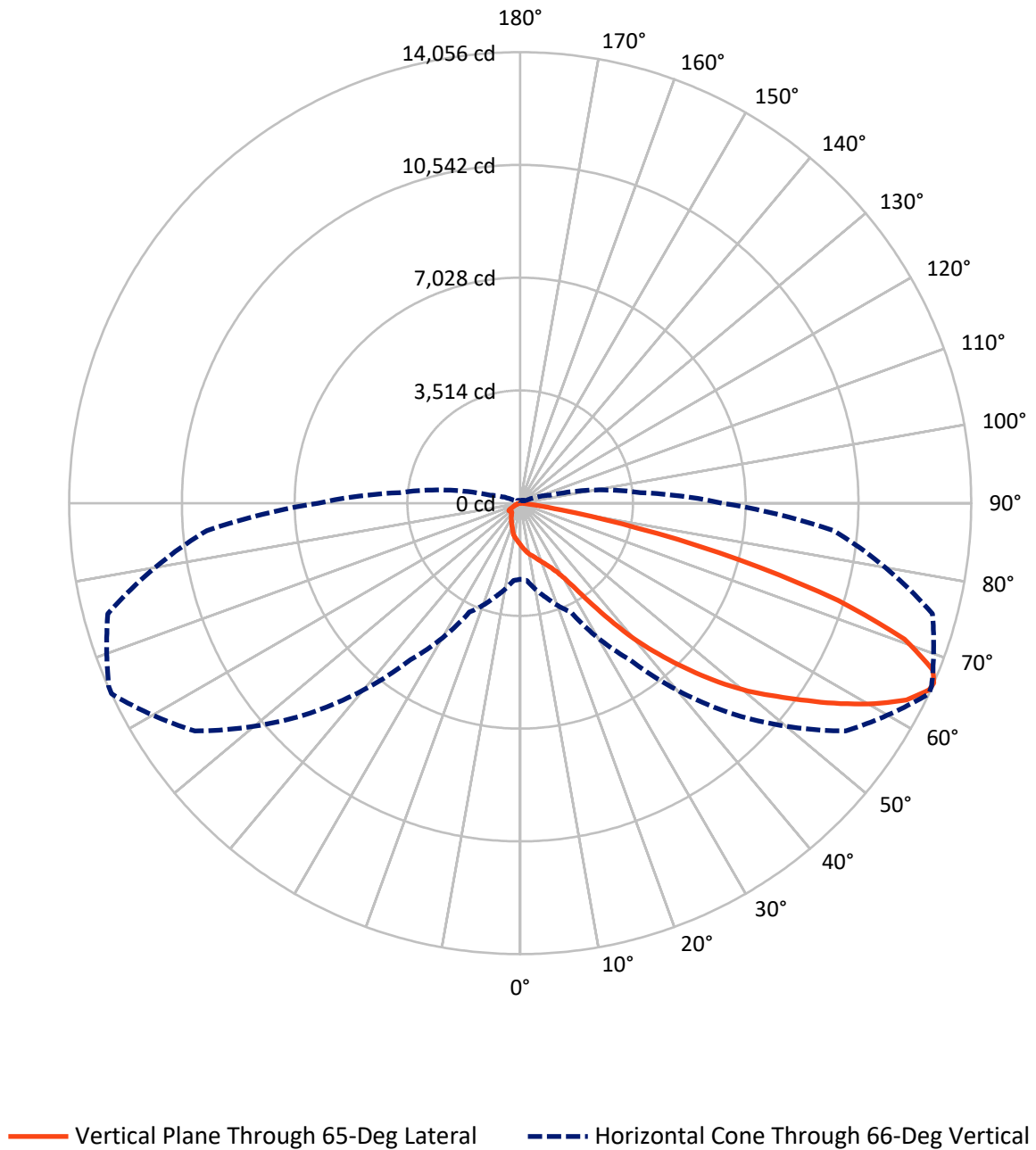
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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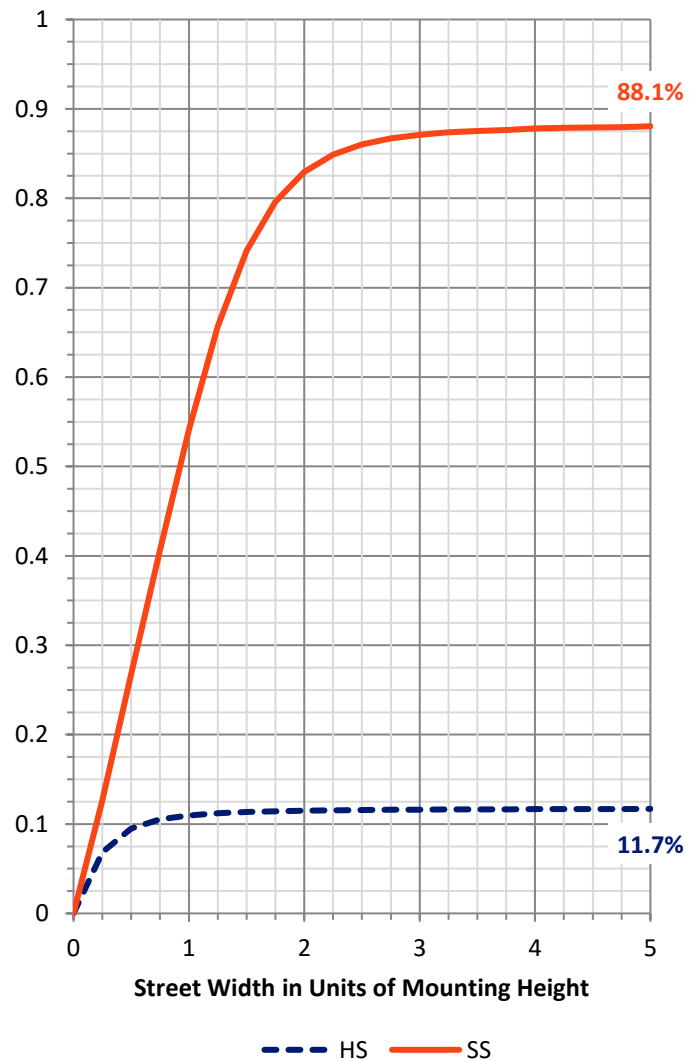
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1878.1	0.0	1878.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	14034.9	0.0	14034.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	15913.0	0.0	15913.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	0.8
10°-20°	363.8	2.3
20°-30°	666.0	4.2
30°-40°	1353.2	8.5
40°-50°	2857.5	18.0
50°-60°	4393.0	27.6
60°-70°	4421.8	27.8
70°-80°	1652.2	10.4
80°-90°	82.5	0.5
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°	15913.0	100.0
0°-180°	15913.0	100.0

Coefficient of Utilization



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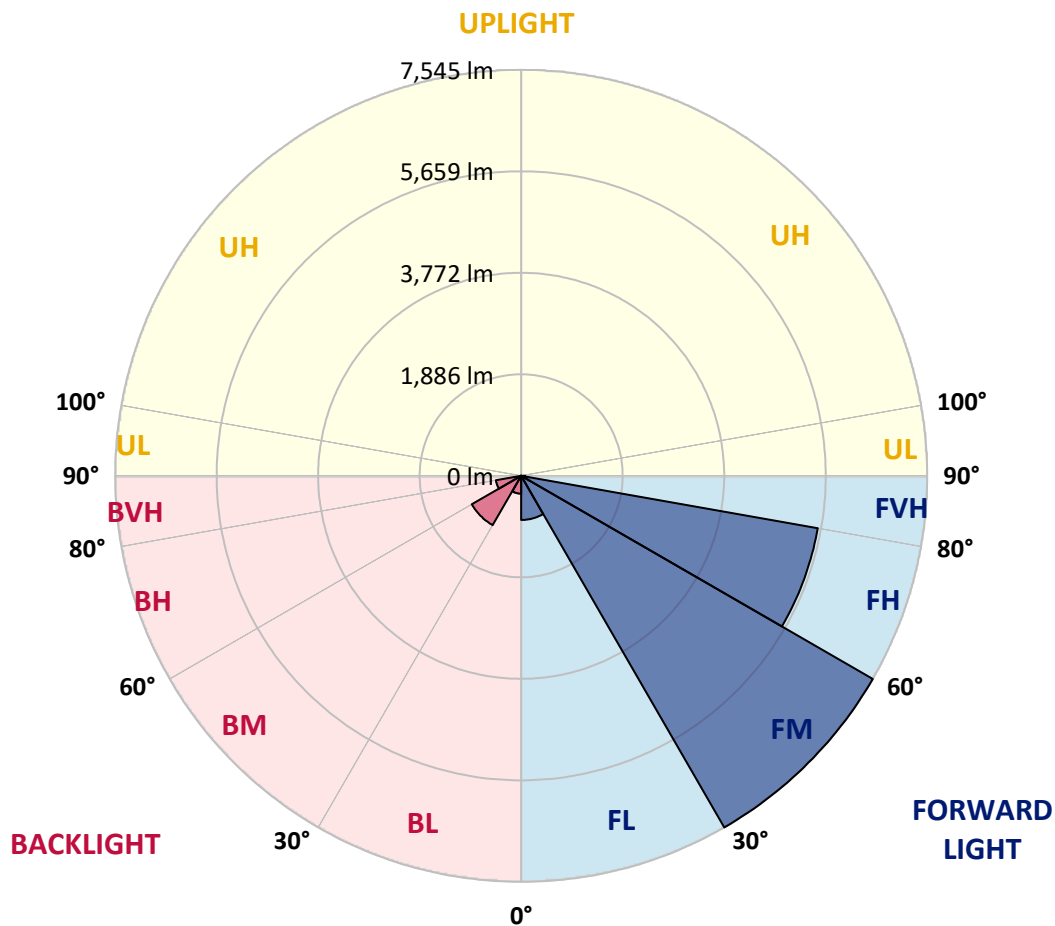
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	820.3	5.2			
FM	(30°-60°)	7544.8	47.4			
FH	(60°-80°)	5597.0	35.2			G3/7500
FVH	(80°-90°)	72.8	0.5			G1/100
BL	(0°-30°)	332.4	2.1	B1/500		
BM	(30°-60°)	1058.9	6.7	B2/2500		
BH	(60°-80°)	477.1	3.0	B1/500		G1/500
BVH	(80°-90°)	9.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5
2.5°	1478.4	1481.3	1475.5	1463.9	1452.4	1437.9	1414.8	1377.3	1371.5	1345.5	1316.7
5°	1579.4	1585.2	1576.5	1573.7	1567.9	1547.7	1515.9	1461.0	1455.3	1403.3	1336.9
7.5°	1614.1	1622.7	1617.0	1617.0	1617.0	1608.3	1593.9	1544.8	1536.1	1469.7	1368.6
10°	1640.1	1645.8	1643.0	1654.5	1663.2	1657.4	1648.7	1619.9	1611.2	1544.8	1412.0
12.5°	1680.5	1683.4	1686.3	1692.0	1706.5	1712.3	1709.4	1683.4	1677.6	1631.4	1466.8
15°	1718.0	1718.0	1720.9	1746.9	1767.1	1778.7	1781.6	1761.3	1755.6	1718.0	1536.1
17.5°	1752.7	1755.6	1764.2	1793.1	1827.8	1850.9	1865.3	1856.6	1848.0	1819.1	1617.0
20°	1804.7	1810.4	1819.1	1859.5	1894.2	1931.7	1960.6	1957.7	1954.8	1934.6	1712.3
22.5°	1894.2	1899.9	1914.4	1951.9	1986.6	2032.8	2081.8	2079.0	2070.3	2055.9	1824.9
25°	2029.9	2029.9	2038.5	2070.3	2113.6	2168.5	2214.7	2223.3	2214.7	2206.0	1966.3
27.5°	2200.2	2203.1	2203.1	2237.8	2278.2	2347.5	2405.2	2413.9	2413.9	2405.2	2156.9
30°	2437.0	2428.3	2422.6	2451.4	2494.8	2595.8	2696.9	2714.2	2705.5	2720.0	2425.5
32.5°	2844.1	2829.7	2780.6	2786.4	2812.4	2951.0	3121.3	3182.0	3179.1	3205.1	2858.6
35°	3407.2	3378.3	3306.1	3245.5	3242.6	3392.7	3652.6	3880.7	3877.8	3967.3	3516.9
37.5°	4042.4	4080.0	3944.2	3840.3	3808.5	3926.9	4261.9	4755.6	4781.6	4937.5	4380.3
40°	4891.3	4914.4	4741.2	4593.9	4443.8	4487.1	4928.9	5696.9	5743.1	5916.4	5243.6
42.5°	5630.5	5653.6	5552.6	5373.5	5183.0	5102.1	5601.6	6551.6	6589.1	6828.8	6132.9
45°	6132.9	6150.3	6184.9	6202.2	5985.7	5818.2	6424.6	7429.4	7475.6	7752.8	7002.0
47.5°	6525.6	6540.1	6609.4	6782.6	6739.3	6606.5	7261.9	8341.8	8353.4	8662.3	7848.1
50°	6707.5	6742.2	6912.5	7178.2	7368.8	7406.3	8171.5	9205.2	9236.9	9531.4	8647.9
52.5°	6505.4	6517.0	6947.2	7446.7	7830.7	8211.9	9083.9	10005.0	10097.4	10316.8	9366.9
55°	5824.0	5907.7	6560.3	7438.1	8194.6	8977.1	10059.9	10868.3	10952.1	11090.7	9999.2
57.5°	5032.8	5125.2	5919.3	7065.6	8350.5	9684.5	10963.6	11786.5	11844.3	11881.8	10579.6
60°	4348.5	4435.1	5252.3	6352.4	8194.6	10184.0	11803.9	12699.0	12748.1	12647.0	10871.2
62.5°	3508.2	3594.9	4417.8	5408.2	7582.4	10285.1	12427.6	13510.3	13530.6	13256.2	10692.2
65°	2644.9	2702.6	3389.9	4238.8	6511.2	9748.0	12569.0	14015.6	13995.4	13432.4	10155.1
66°	2370.6	2419.7	3026.0	3747.9	5953.9	9257.1	12378.5	14056.1	14035.9	13302.4	9802.9
67.5°	2044.3	2058.7	2558.3	3066.5	4980.8	8214.8	11798.1	13871.3	13888.6	12944.4	9159.0
70°	1596.8	1593.9	1882.6	2133.8	3401.4	5844.2	9840.4	12707.6	12791.4	11593.1	7810.5
72.5°	1022.2	987.5	1155.0	1305.1	1980.8	3392.7	7175.3	10357.3	10498.7	9107.0	5818.2
75°	609.3	574.6	615.0	652.6	950.0	1631.4	4218.6	7048.2	7184.0	5838.4	3462.0
77.5°	456.2	441.8	444.7	412.9	421.6	612.1	1925.9	3724.8	3823.0	2390.8	1313.8
80°	349.4	311.8	291.6	306.1	277.2	242.5	716.1	1282.0	1342.7	565.9	274.3
82.5°	233.9	202.1	187.7	205.0	176.1	135.7	173.2	248.3	242.5	153.0	106.8
85°	121.3	103.9	103.9	103.9	89.5	66.4	75.1	101.1	101.1	80.8	63.5
87.5°	34.6	31.8	37.5	34.6	26.0	26.0	28.9	34.6	34.6	31.8	28.9
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°	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5
2.5°	1293.6	1282.0	1250.3	1227.2	1204.1	1183.9	1160.8	1155.0	1143.4	1146.3	1140.5
5°	1302.2	1270.5	1215.6	1163.6	1123.2	1088.6	1045.3	1027.9	1004.8	996.2	990.4
7.5°	1313.8	1267.6	1186.7	1114.6	1045.3	976.0	906.7	866.2	840.2	828.7	820.0
10°	1339.8	1279.1	1172.3	1059.7	941.3	843.1	773.8	745.0	727.6	724.7	721.9
12.5°	1374.4	1296.5	1157.9	990.4	834.5	742.1	698.8	690.1	687.2	687.2	684.3
15°	1426.4	1325.3	1134.8	909.5	750.7	687.2	667.0	652.6	646.8	646.8	646.8
17.5°	1478.4	1360.0	1100.1	825.8	693.0	652.6	632.3	623.7	617.9	620.8	617.9
20°	1544.8	1400.4	1053.9	753.6	655.4	623.7	603.5	594.8	591.9	591.9	591.9
22.5°	1619.9	1446.6	996.2	698.8	623.7	594.8	574.6	565.9	560.2	563.1	563.1
25°	1720.9	1504.4	935.5	643.9	591.9	565.9	542.8	531.3	531.3	534.2	537.1
27.5°	1850.9	1573.7	874.9	609.3	563.1	537.1	511.1	499.5	502.4	508.2	508.2
30°	2041.4	1668.9	814.3	571.7	531.3	502.4	479.3	467.8	473.5	485.1	485.1
32.5°	2312.8	1824.9	762.3	528.4	485.1	453.3	430.2	421.6	436.0	459.1	459.1
35°	2797.9	2110.7	730.5	485.1	436.0	398.5	369.6	360.9	381.1	410.0	410.0
37.5°	3447.6	2569.8	742.1	447.6	395.6	352.3	320.5	309.0	323.4	349.4	358.0
40°	4172.4	3124.2	843.1	415.8	358.0	314.7	283.0	271.4	280.1	291.6	294.5
42.5°	4897.1	3713.3	1033.7	392.7	329.2	283.0	254.1	245.4	251.2	254.1	257.0
45°	5619.0	4296.5	1273.4	378.3	303.2	257.0	228.1	228.1	231.0	231.0	231.0
47.5°	6303.3	4865.3	1524.6	375.4	280.1	231.0	207.9	210.8	210.8	213.7	213.7
50°	6950.1	5373.5	1778.7	384.0	259.9	207.9	190.6	190.6	190.6	193.5	190.6
52.5°	7490.0	5818.2	2044.3	398.5	239.7	190.6	173.2	173.2	173.2	176.1	173.2
55°	8001.1	6222.4	2315.7	418.7	222.3	176.1	158.8	153.0	153.0	155.9	153.0
57.5°	8416.9	6491.0	2572.7	421.6	207.9	161.7	147.3	138.6	138.6	138.6	138.6
60°	8434.2	6335.0	2647.8	369.6	190.6	147.3	132.8	121.3	124.2	124.2	124.2
62.5°	7882.7	5515.0	2128.0	277.2	170.4	132.8	121.3	109.7	109.7	109.7	109.7
65°	6799.9	4290.7	1247.4	219.4	147.3	118.4	106.8	98.2	98.2	98.2	95.3
66°	6291.7	3762.3	955.7	199.2	138.6	115.5	103.9	95.3	92.4	89.5	89.5
67.5°	5463.0	2974.1	597.7	176.1	127.0	106.8	95.3	86.6	83.7	80.8	80.8
70°	4114.6	1888.4	291.6	135.7	109.7	92.4	83.7	75.1	72.2	69.3	66.4
72.5°	2887.4	1105.9	153.0	103.9	89.5	80.8	72.2	63.5	60.6	57.7	57.7
75°	1631.4	534.2	101.1	75.1	72.2	66.4	60.6	52.0	49.1	49.1	49.1
77.5°	617.9	184.8	69.3	54.9	57.7	52.0	43.3	43.3	40.4	43.3	40.4
80°	161.7	80.8	43.3	40.4	43.3	37.5	31.8	34.6	34.6	34.6	34.6
82.5°	86.6	46.2	26.0	28.9	26.0	26.0	20.2	23.1	26.0	23.1	26.0
85°	60.6	23.1	14.4	14.4	11.5	11.5	8.7	11.5	14.4	11.5	11.5
87.5°	31.8	8.7	8.7	8.7	8.7	5.8	2.9	0.0	2.9	2.9	2.9
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)