

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: P1211006

Luminaire Tested: **ARCH4-140-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211006
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: ARCH4-140-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16049 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 141.3
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

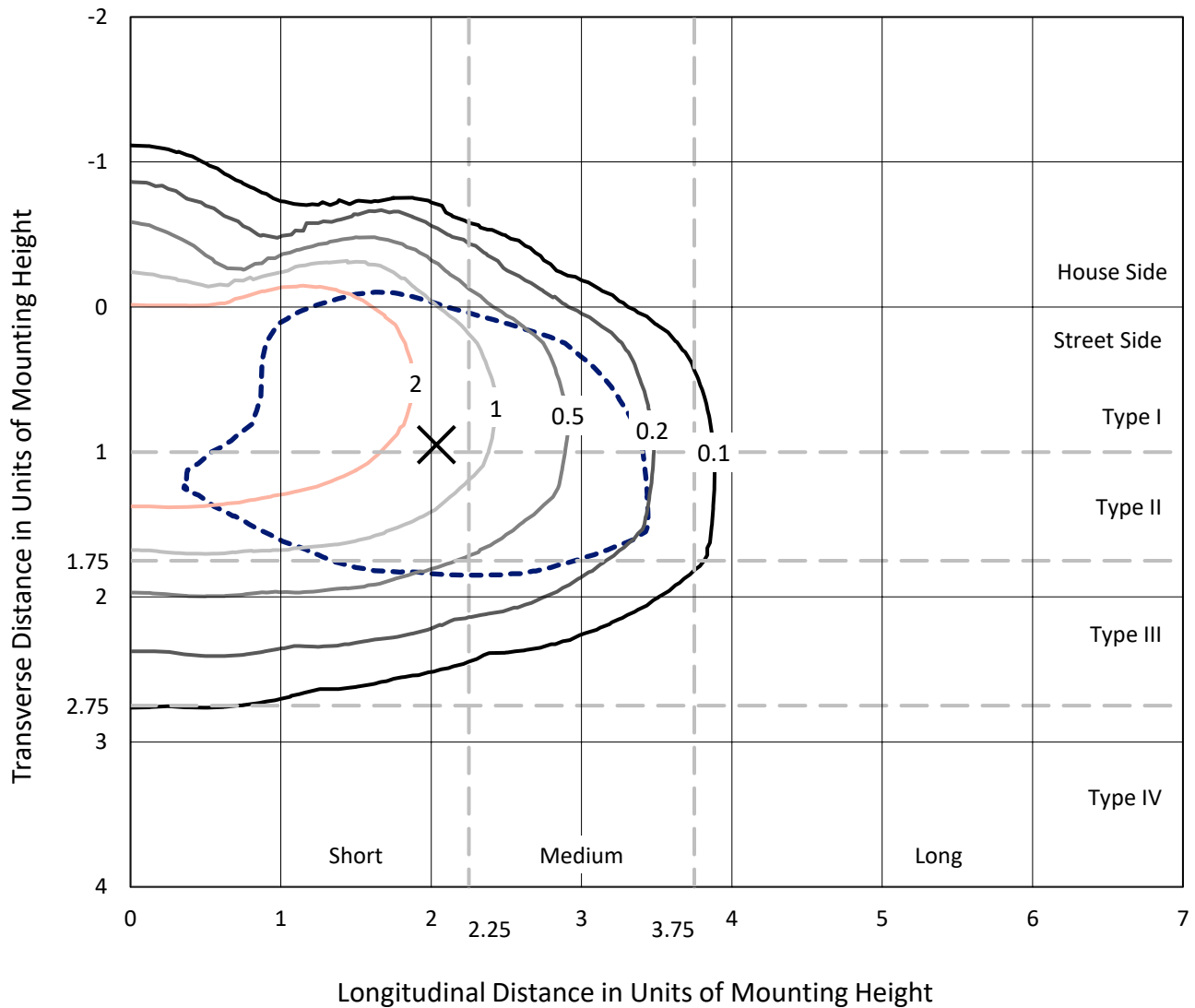


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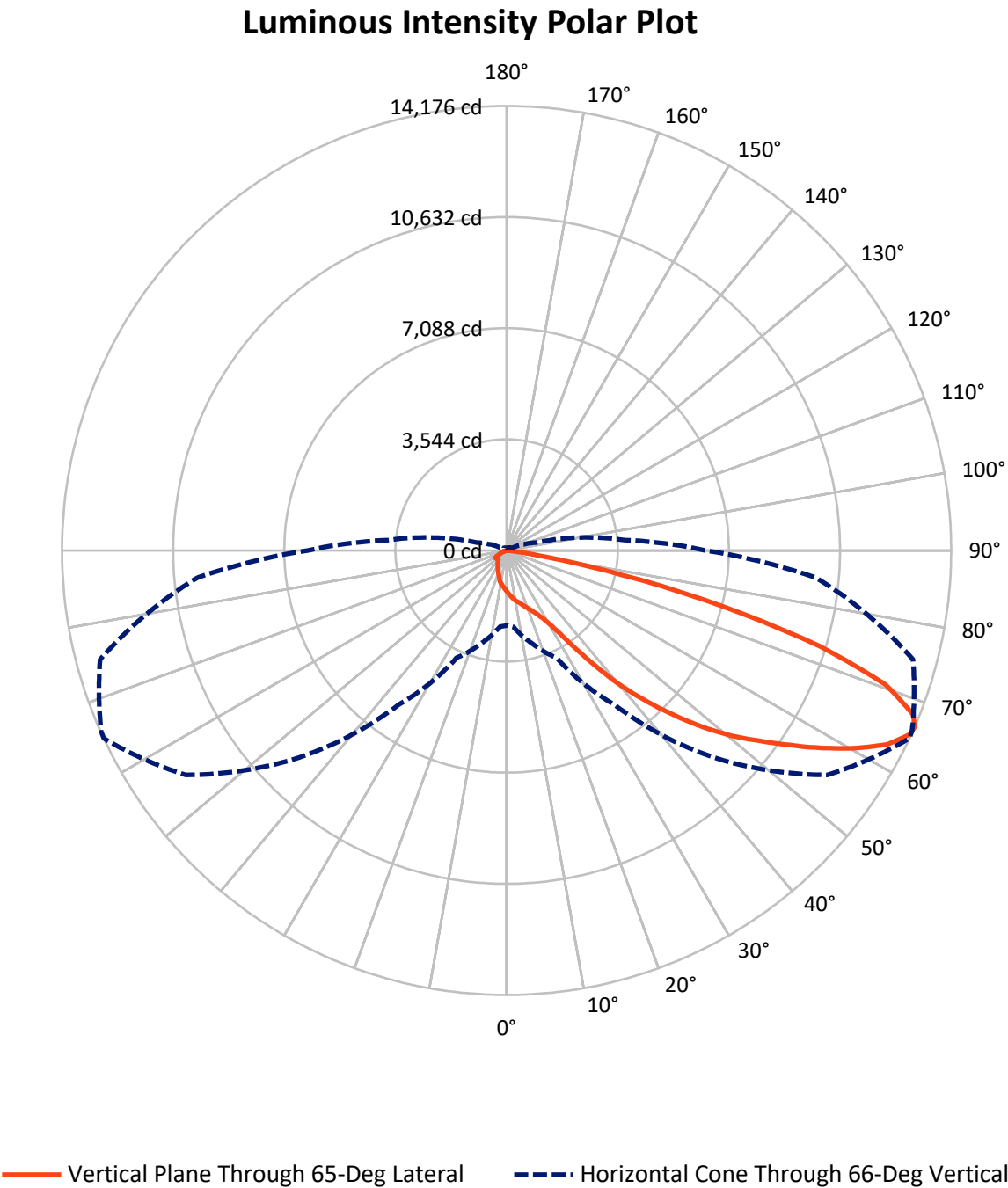
Iso-Footcandle Lines of Horizontal Illumination

✕ 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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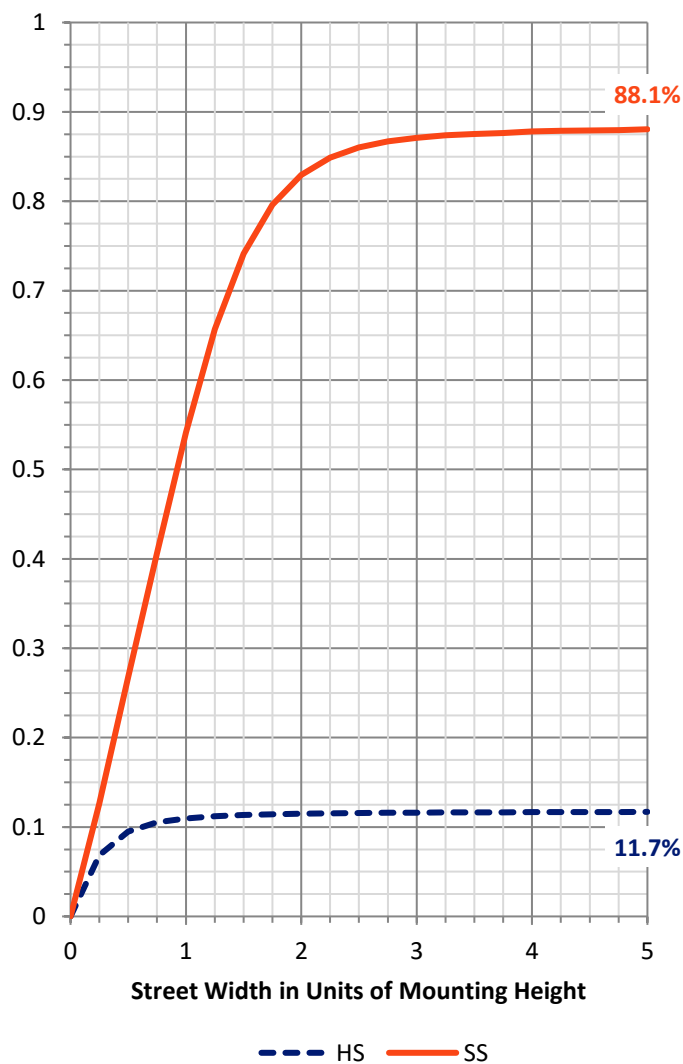
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1894.1	0.0	1894.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	14154.9	0.0	14154.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	16049.0	0.0	16049.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	0.8
10°-20°	367.0	2.3
20°-30°	671.6	4.2
30°-40°	1364.7	8.5
40°-50°	2882.0	18.0
50°-60°	4430.5	27.6
60°-70°	4459.6	27.8
70°-80°	1666.3	10.4
80°-90°	83.2	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°	16049.0	100.0
0°-180°	16049.0	100.0

Coefficient of Utilization



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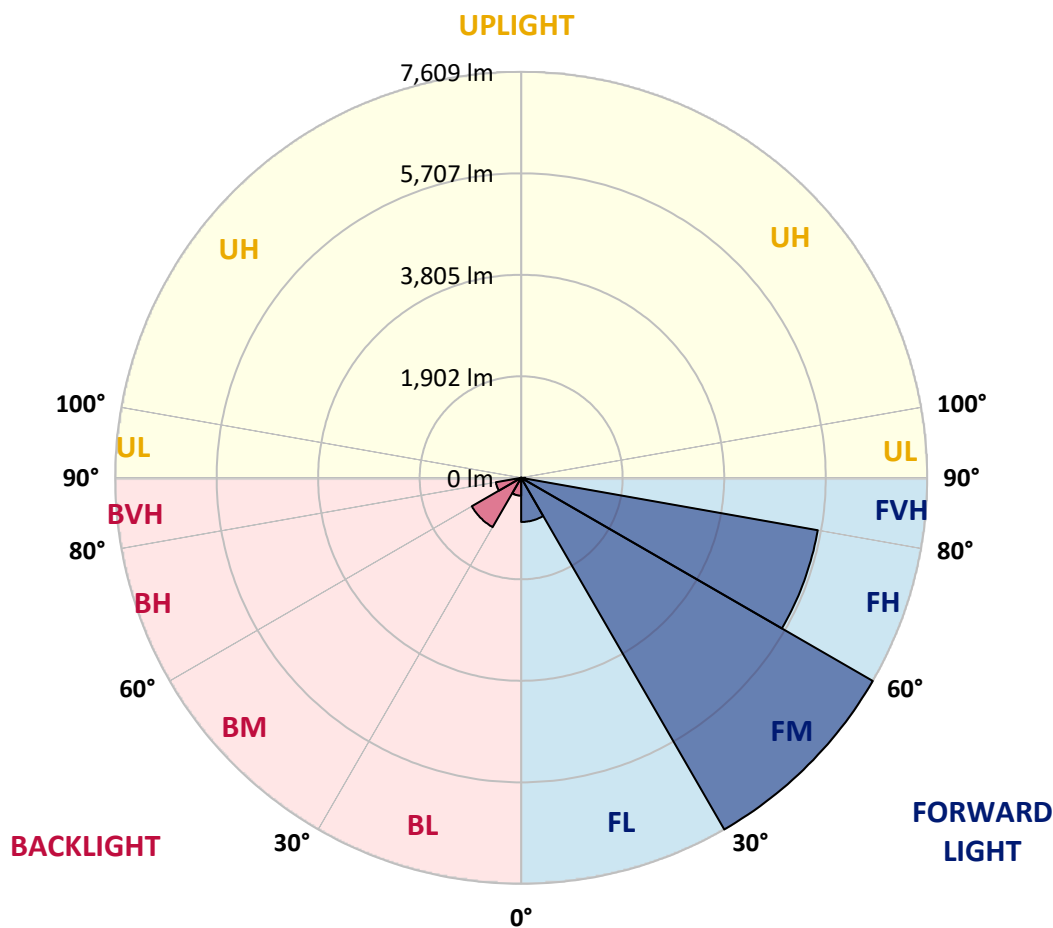
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	827.3	5.2			
FM	(30°-60°)	7609.3	47.4			
FH	(60°-80°)	5644.8	35.2			G3/7500
FVH	(80°-90°)	73.4	0.5			G1/100
BL	(0°-30°)	335.2	2.1	B1/500		
BM	(30°-60°)	1067.9	6.7	B2/2500		
BH	(60°-80°)	481.2	3.0	B1/500		G1/500
BVH	(80°-90°)	9.8	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°	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5
2.5°	1491.0	1493.9	1488.1	1476.4	1464.8	1450.2	1426.9	1389.1	1383.3	1357.0	1327.9
5°	1592.9	1598.8	1590.0	1587.1	1581.3	1560.9	1528.9	1473.5	1467.7	1415.3	1348.3
7.5°	1627.9	1636.6	1630.8	1630.8	1630.8	1622.1	1607.5	1558.0	1549.2	1482.3	1380.3
10°	1654.1	1659.9	1657.0	1668.6	1677.4	1671.6	1662.8	1633.7	1625.0	1558.0	1424.0
12.5°	1694.9	1697.8	1700.7	1706.5	1721.1	1726.9	1724.0	1697.8	1691.9	1645.3	1479.4
15°	1732.7	1732.7	1735.6	1761.8	1782.2	1793.9	1796.8	1776.4	1770.6	1732.7	1549.2
17.5°	1767.7	1770.6	1779.3	1808.4	1843.4	1866.7	1881.2	1872.5	1863.8	1834.6	1630.8
20°	1820.1	1825.9	1834.6	1875.4	1910.4	1948.2	1977.3	1974.4	1971.5	1951.1	1726.9
22.5°	1910.4	1916.2	1930.7	1968.6	2003.5	2050.1	2099.6	2096.7	2088.0	2073.4	1840.5
25°	2047.2	2047.2	2056.0	2088.0	2131.7	2187.0	2233.6	2242.3	2233.6	2224.9	1983.2
27.5°	2219.0	2221.9	2221.9	2256.9	2297.7	2367.6	2425.8	2434.5	2434.5	2425.8	2175.4
30°	2457.8	2449.1	2443.3	2472.4	2516.1	2618.0	2719.9	2737.4	2728.7	2743.2	2446.2
32.5°	2868.4	2853.9	2804.4	2810.2	2836.4	2976.2	3148.0	3209.2	3206.2	3232.5	2883.0
35°	3436.3	3407.2	3334.4	3273.2	3270.3	3421.7	3683.8	3913.9	3911.0	4001.3	3547.0
37.5°	4077.0	4114.8	3978.0	3873.1	3841.1	3960.5	4298.3	4796.3	4822.5	4979.7	4417.7
40°	4933.1	4956.4	4781.7	4633.2	4481.8	4525.4	4971.0	5745.6	5792.2	5966.9	5288.4
42.5°	5678.6	5701.9	5600.0	5419.5	5227.3	5145.7	5649.5	6607.6	6645.5	6887.2	6185.3
45°	6185.3	6202.8	6237.8	6255.2	6036.8	5867.9	6479.5	7492.9	7539.5	7819.0	7061.9
47.5°	6581.4	6596.0	6665.8	6840.6	6796.9	6662.9	7324.0	8413.1	8424.8	8736.4	7915.1
50°	6764.9	6799.8	6971.6	7239.5	7431.7	7469.6	8241.3	9283.8	9315.9	9612.9	8721.8
52.5°	6561.0	6572.7	7006.6	7510.4	7897.7	8282.1	9161.5	10090.5	10183.7	10405.0	9446.9
55°	5873.7	5958.2	6616.3	7501.6	8264.6	9053.8	10145.8	10961.2	11045.7	11185.5	10084.7
57.5°	5075.8	5169.0	5969.8	7126.0	8421.9	9767.3	11057.3	11887.3	11945.5	11983.4	10670.0
60°	4385.7	4473.0	5297.1	6406.7	8264.6	10271.0	11904.7	12807.5	12857.0	12755.1	10964.1
62.5°	3538.2	3625.6	4455.5	5454.4	7647.2	10373.0	12533.8	13625.8	13646.2	13369.5	10783.6
65°	2667.5	2725.7	3418.8	4275.0	6566.8	9831.3	12676.5	14135.4	14115.0	13547.2	10241.9
66°	2390.9	2440.4	3051.9	3779.9	6004.8	9336.3	12484.3	14176.2	14155.8	13416.1	9886.6
67.5°	2061.8	2076.3	2580.1	3092.7	5023.4	8285.0	11898.9	13989.8	14007.3	13055.0	9237.2
70°	1610.4	1607.5	1898.7	2152.1	3430.5	5894.1	9924.5	12816.2	12900.7	11692.2	7877.3
72.5°	1030.9	995.9	1164.8	1316.3	1997.7	3421.7	7236.6	10445.8	10588.5	9184.8	5867.9
75°	614.5	579.5	620.3	658.1	958.1	1645.3	4254.6	7108.5	7245.4	5888.3	3491.6
77.5°	460.1	445.6	448.5	416.4	425.2	617.4	1942.4	3756.6	3855.6	2411.2	1325.0
80°	352.4	314.5	294.1	308.7	279.6	244.6	722.2	1293.0	1354.1	570.8	276.7
82.5°	235.9	203.8	189.3	206.8	177.6	136.9	174.7	250.4	244.6	154.3	107.7
85°	122.3	104.8	104.8	104.8	90.3	67.0	75.7	101.9	101.9	81.5	64.1
87.5°	34.9	32.0	37.9	34.9	26.2	26.2	29.1	34.9	34.9	32.0	29.1
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°	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5
2.5°	1304.6	1293.0	1260.9	1237.7	1214.4	1194.0	1170.7	1164.8	1153.2	1156.1	1150.3
5°	1313.4	1281.3	1226.0	1173.6	1132.8	1097.9	1054.2	1036.7	1013.4	1004.7	998.9
7.5°	1325.0	1278.4	1196.9	1124.1	1054.2	984.3	914.4	873.6	847.4	835.8	827.0
10°	1351.2	1290.1	1182.3	1068.7	949.4	850.3	780.4	751.3	733.9	730.9	728.0
12.5°	1386.2	1307.5	1167.8	998.9	841.6	748.4	704.7	696.0	693.1	693.1	690.2
15°	1438.6	1336.7	1144.5	917.3	757.2	693.1	672.7	658.1	652.3	652.3	652.3
17.5°	1491.0	1371.6	1109.5	832.9	698.9	658.1	637.8	629.0	623.2	626.1	623.2
20°	1558.0	1412.4	1062.9	760.1	661.1	629.0	608.6	599.9	597.0	597.0	597.0
22.5°	1633.7	1459.0	1004.7	704.7	629.0	599.9	579.5	570.8	565.0	567.9	567.9
25°	1735.6	1517.2	943.5	649.4	597.0	570.8	547.5	535.8	535.8	538.7	541.7
27.5°	1866.7	1587.1	882.4	614.5	567.9	541.7	515.4	503.8	506.7	512.5	512.5
30°	2058.9	1683.2	821.2	576.6	535.8	506.7	483.4	471.8	477.6	489.2	489.2
32.5°	2332.6	1840.5	768.8	532.9	489.2	457.2	433.9	425.2	439.7	463.0	463.0
35°	2821.8	2128.8	736.8	489.2	439.7	401.9	372.8	364.0	384.4	413.5	413.5
37.5°	3477.1	2591.8	748.4	451.4	399.0	355.3	323.2	311.6	326.2	352.4	361.1
40°	4208.0	3150.9	850.3	419.3	361.1	317.4	285.4	273.7	282.5	294.1	297.0
42.5°	4939.0	3745.0	1042.5	396.0	332.0	285.4	256.3	247.5	253.4	256.3	259.2
45°	5667.0	4333.2	1284.2	381.5	305.8	259.2	230.1	230.1	233.0	233.0	233.0
47.5°	6357.2	4906.9	1537.6	378.6	282.5	233.0	209.7	212.6	212.6	215.5	215.5
50°	7009.5	5419.5	1793.9	387.3	262.1	209.7	192.2	192.2	192.2	195.1	192.2
52.5°	7554.0	5867.9	2061.8	401.9	241.7	192.2	174.7	174.7	174.7	177.6	174.7
55°	8069.5	6275.6	2335.5	422.3	224.2	177.6	160.2	154.3	154.3	157.3	154.3
57.5°	8488.8	6546.4	2594.7	425.2	209.7	163.1	148.5	139.8	139.8	139.8	139.8
60°	8506.3	6389.2	2670.4	372.8	192.2	148.5	134.0	122.3	125.2	125.2	125.2
62.5°	7950.1	5562.1	2146.2	279.6	171.8	134.0	122.3	110.7	110.7	110.7	110.7
65°	6858.0	4327.4	1258.0	221.3	148.5	119.4	107.7	99.0	99.0	99.0	96.1
66°	6345.5	3794.5	963.9	200.9	139.8	116.5	104.8	96.1	93.2	90.3	90.3
67.5°	5509.7	2999.5	602.8	177.6	128.1	107.7	96.1	87.4	84.5	81.5	81.5
70°	4149.8	1904.5	294.1	136.9	110.7	93.2	84.5	75.7	72.8	69.9	67.0
72.5°	2912.1	1115.3	154.3	104.8	90.3	81.5	72.8	64.1	61.2	58.2	58.2
75°	1645.3	538.7	101.9	75.7	72.8	67.0	61.2	52.4	49.5	49.5	49.5
77.5°	623.2	186.4	69.9	55.3	58.2	52.4	43.7	43.7	40.8	43.7	40.8
80°	163.1	81.5	43.7	40.8	43.7	37.9	32.0	34.9	34.9	34.9	34.9
82.5°	87.4	46.6	26.2	29.1	26.2	26.2	20.4	23.3	26.2	23.3	26.2
85°	61.2	23.3	14.6	14.6	11.6	11.6	8.7	11.6	14.6	11.6	11.6
87.5°	32.0	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)