

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: P1210998

Luminaire Tested: **ARCH4-140-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210998
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: ARCH4-140-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 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: 14043 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

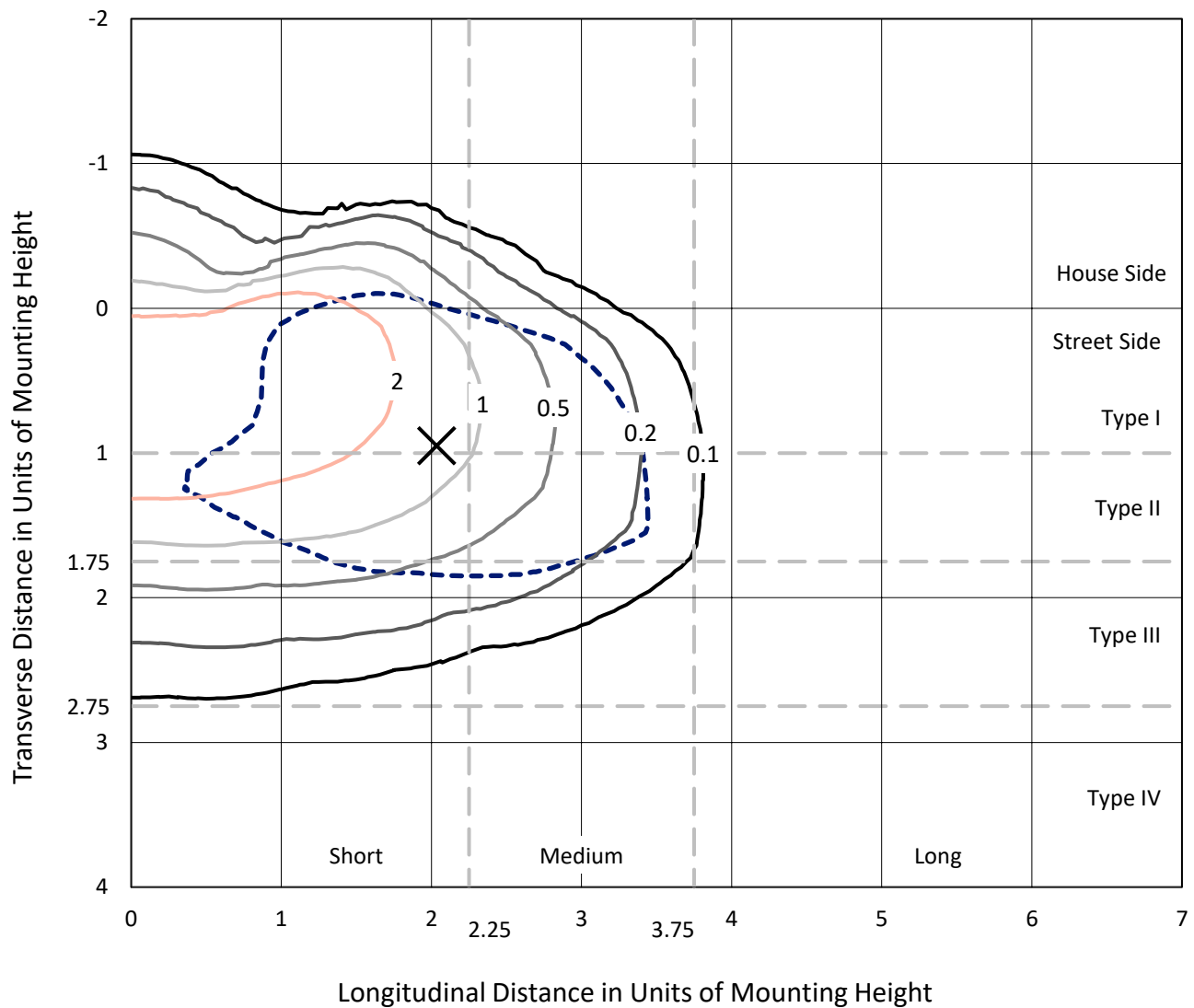


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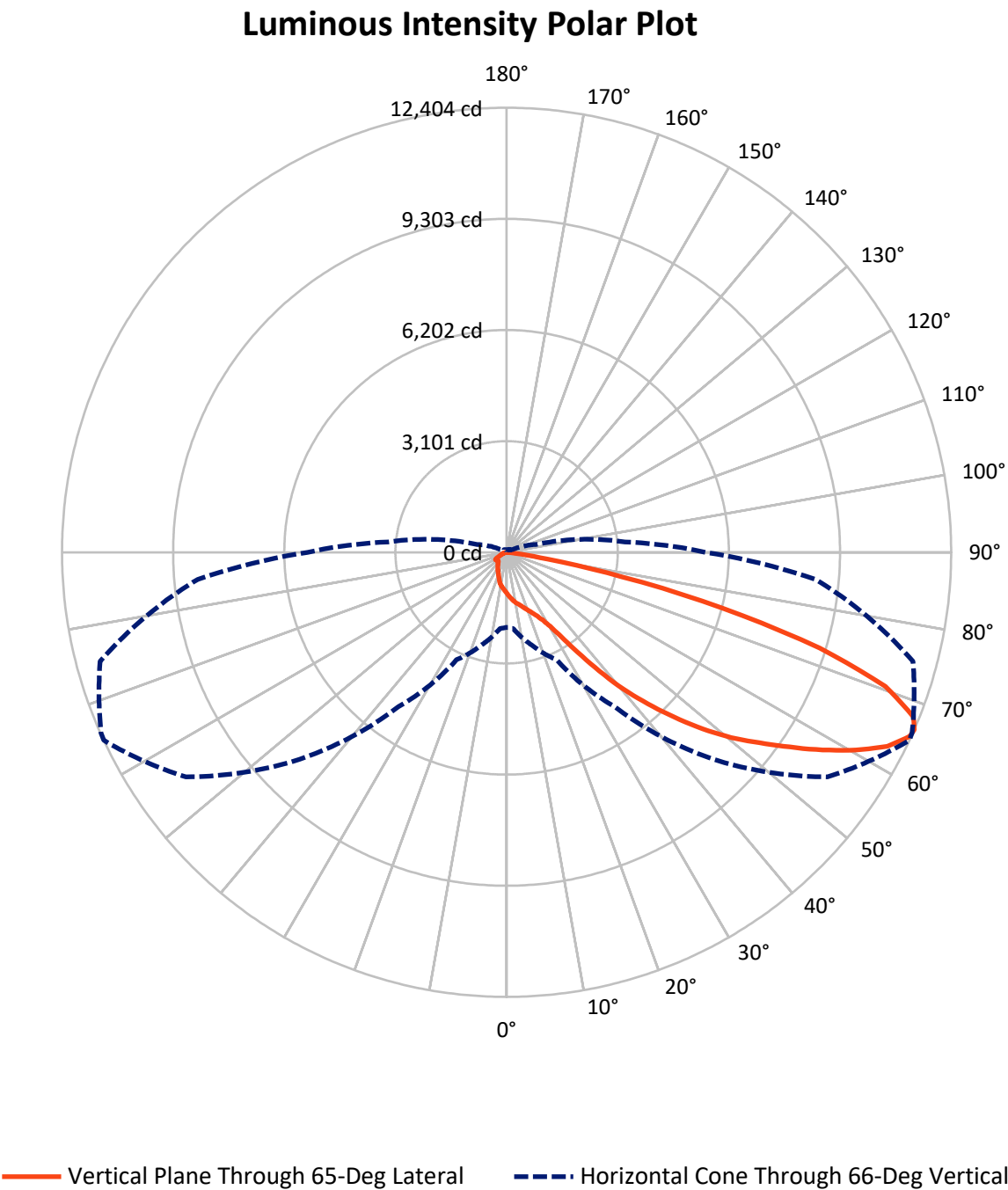
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type III - Short - N/A

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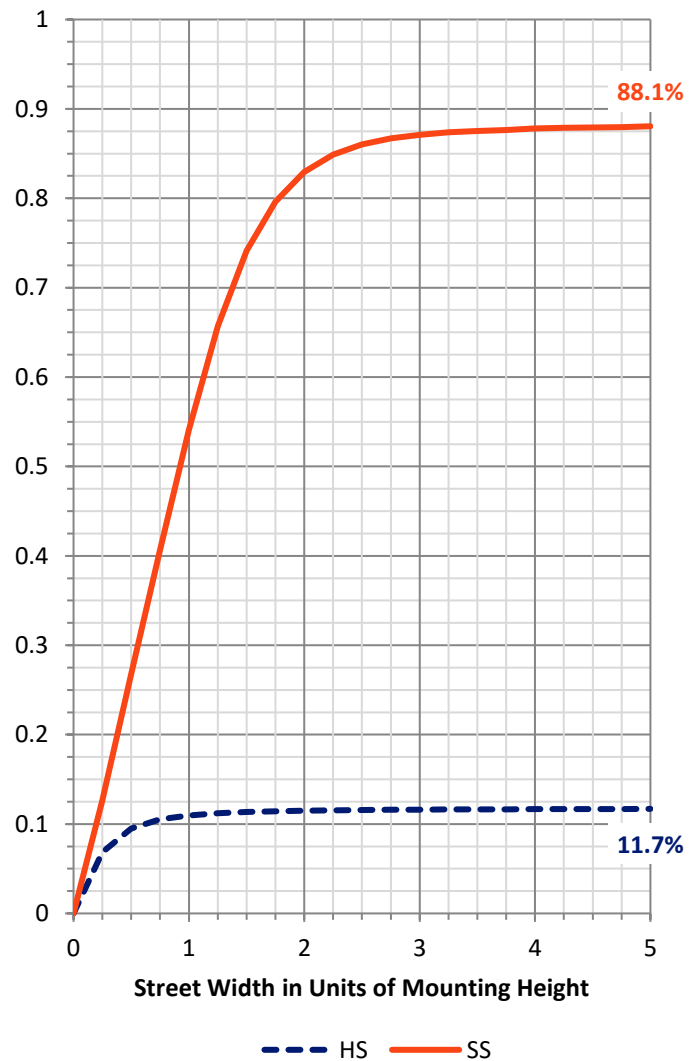
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1657.4	0.0	1657.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	12385.6	0.0	12385.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	14043.0	0.0	14043.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	0.8
10°-20°	321.1	2.3
20°-30°	587.7	4.2
30°-40°	1194.2	8.5
40°-50°	2521.7	18.0
50°-60°	3876.7	27.6
60°-70°	3902.2	27.8
70°-80°	1458.1	10.4
80°-90°	72.8	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°	14043.0	100.0
0°-180°	14043.0	100.0

Coefficient of Utilization



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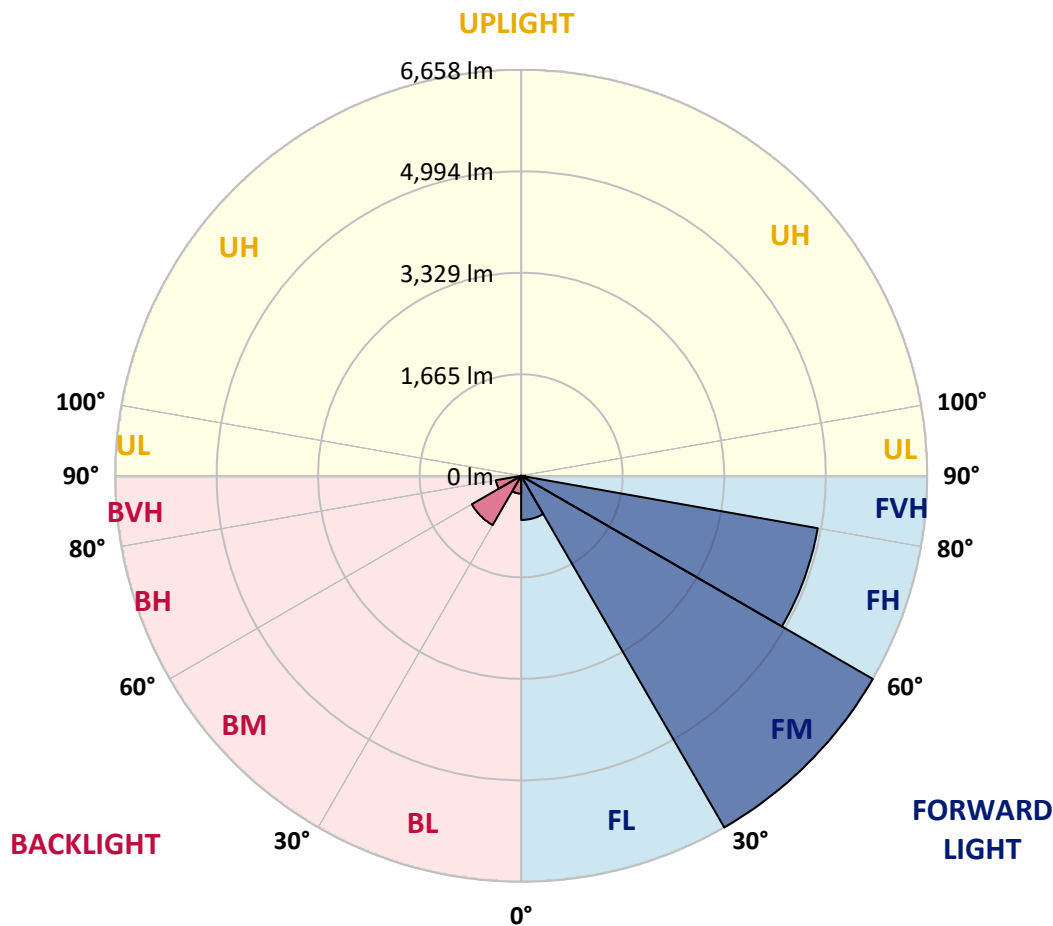
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	723.9	5.2			
FM	(30°-60°)	6658.2	47.4			
FH	(60°-80°)	4939.3	35.2			G2/5000
FVH	(80°-90°)	64.3	0.5			G1/100
BL	(0°-30°)	293.3	2.1	B1/500		
BM	(30°-60°)	934.4	6.7	B1/1000		
BH	(60°-80°)	421.0	3.0	B1/500		G1/500
BVH	(80°-90°)	8.6	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1144.1	1144.1	1144.1	1144.1	1144.1	1144.1	1144.1	1144.1	1144.1	1144.1	1144.1
2.5°	1304.6	1307.2	1302.1	1291.9	1281.7	1269.0	1248.6	1215.5	1210.4	1187.4	1161.9
5°	1393.8	1398.9	1391.3	1388.7	1383.6	1365.8	1337.8	1289.4	1284.3	1238.4	1179.8
7.5°	1424.4	1432.0	1427.0	1427.0	1427.0	1419.3	1406.6	1363.2	1355.6	1297.0	1207.8
10°	1447.3	1452.4	1449.9	1460.1	1467.7	1462.6	1455.0	1429.5	1421.9	1363.2	1246.0
12.5°	1483.0	1485.6	1488.1	1493.2	1505.9	1511.0	1508.5	1485.6	1480.5	1439.7	1294.4
15°	1516.1	1516.1	1518.7	1541.6	1559.5	1569.6	1572.2	1554.4	1549.3	1516.1	1355.6
17.5°	1546.7	1549.3	1556.9	1582.4	1613.0	1633.3	1646.1	1638.4	1630.8	1605.3	1427.0
20°	1592.6	1597.7	1605.3	1641.0	1671.6	1704.7	1730.2	1727.6	1725.1	1707.2	1511.0
22.5°	1671.6	1676.7	1689.4	1722.5	1753.1	1793.9	1837.2	1834.7	1827.0	1814.3	1610.4
25°	1791.3	1791.3	1799.0	1827.0	1865.2	1913.6	1954.4	1962.1	1954.4	1946.8	1735.3
27.5°	1941.7	1944.2	1944.2	1974.8	2010.5	2071.6	2122.6	2130.2	2130.2	2122.6	1903.5
30°	2150.6	2143.0	2137.9	2163.4	2201.6	2290.8	2380.0	2395.2	2387.6	2400.3	2140.4
32.5°	2509.9	2497.2	2453.8	2458.9	2481.9	2604.2	2754.5	2808.0	2805.5	2828.4	2522.6
35°	3006.8	2981.3	2917.6	2864.1	2861.5	2994.1	3223.4	3424.7	3422.1	3501.1	3103.6
37.5°	3567.4	3600.5	3480.7	3389.0	3361.0	3465.5	3761.0	4196.8	4219.7	4357.3	3865.5
40°	4316.5	4336.9	4184.0	4054.1	3921.6	3959.8	4349.7	5027.5	5068.2	5221.1	4627.4
42.5°	4968.8	4989.2	4900.0	4742.1	4573.9	4502.5	4943.4	5781.7	5814.8	6026.3	5412.2
45°	5412.2	5427.5	5458.1	5473.4	5282.3	5134.5	5669.6	6556.3	6597.1	6841.7	6179.2
47.5°	5758.8	5771.5	5832.7	5985.6	5947.3	5830.1	6408.5	7361.5	7371.7	7644.4	6925.8
50°	5919.3	5949.9	6100.2	6334.6	6502.8	6535.9	7211.2	8123.4	8151.5	8411.4	7631.6
52.5°	5740.9	5751.1	6130.8	6571.6	6910.5	7246.9	8016.4	8829.3	8910.8	9104.5	8266.1
55°	5139.6	5213.5	5789.3	6564.0	7231.6	7922.1	8877.7	9591.2	9665.0	9787.4	8824.2
57.5°	4441.4	4522.9	5223.7	6235.3	7369.2	8546.4	9675.2	10401.5	10452.4	10485.5	9336.3
60°	3837.5	3913.9	4635.0	5605.9	7231.6	8987.2	10416.7	11206.7	11250.0	11160.8	9593.7
62.5°	3096.0	3172.4	3898.6	4772.6	6691.4	9076.4	10967.1	11922.7	11940.5	11698.5	9435.7
65°	2334.1	2385.0	2991.5	3740.7	5746.0	8602.5	11092.0	12368.6	12350.8	11853.9	8961.8
66°	2092.0	2135.3	2670.4	3307.5	5254.2	8169.3	10923.8	12404.3	12386.4	11739.2	8650.9
67.5°	1804.1	1816.8	2257.6	2706.1	4395.5	7249.4	10411.7	12241.2	12256.5	11423.3	8082.7
70°	1409.1	1406.6	1661.4	1883.1	3001.7	5157.4	8684.0	11214.3	11288.2	10230.7	6892.7
72.5°	902.0	871.5	1019.3	1151.8	1748.0	2994.1	6332.1	9140.1	9265.0	8036.8	5134.5
75°	537.7	507.1	542.8	575.9	838.3	1439.7	3722.8	6220.0	6339.7	5152.3	3055.2
77.5°	402.6	389.9	392.4	364.4	372.0	540.2	1699.6	3287.1	3373.7	2109.8	1159.4
80°	308.3	275.2	257.4	270.1	244.6	214.0	631.9	1131.4	1184.9	499.4	242.1
82.5°	206.4	178.4	165.6	180.9	155.4	119.8	152.9	219.1	214.0	135.1	94.3
85°	107.0	91.7	91.7	91.7	79.0	58.6	66.3	89.2	89.2	71.3	56.1
87.5°	30.6	28.0	33.1	30.6	22.9	22.9	25.5	30.6	30.6	28.0	25.5
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°	1144.1	1144.1	1144.1	1144.1	1144.1	1144.1	1144.1	1144.1	1144.1	1144.1	1144.1
2.5°	1141.6	1131.4	1103.3	1083.0	1062.6	1044.7	1024.3	1019.3	1009.1	1011.6	1006.5
5°	1149.2	1121.2	1072.8	1026.9	991.2	960.6	922.4	907.1	886.7	879.1	874.0
7.5°	1159.4	1118.6	1047.3	983.6	922.4	861.3	800.1	764.4	741.5	731.3	723.7
10°	1182.3	1128.8	1034.5	935.2	830.7	744.1	682.9	657.4	642.1	639.6	637.0
12.5°	1212.9	1144.1	1021.8	874.0	736.4	654.9	616.6	609.0	606.5	606.5	603.9
15°	1258.8	1169.6	1001.4	802.7	662.5	606.5	588.6	575.9	570.8	570.8	570.8
17.5°	1304.6	1200.2	970.8	728.8	611.6	575.9	558.0	550.4	545.3	547.8	545.3
20°	1363.2	1235.8	930.1	665.1	578.4	550.4	532.6	524.9	522.4	522.4	522.4
22.5°	1429.5	1276.6	879.1	616.6	550.4	524.9	507.1	499.4	494.3	496.9	496.9
25°	1518.7	1327.6	825.6	568.2	522.4	499.4	479.0	468.9	468.9	471.4	474.0
27.5°	1633.3	1388.7	772.1	537.7	496.9	474.0	451.0	440.8	443.4	448.5	448.5
30°	1801.5	1472.8	718.6	504.5	468.9	443.4	423.0	412.8	417.9	428.1	428.1
32.5°	2041.1	1610.4	672.7	466.3	428.1	400.1	379.7	372.0	384.8	405.2	405.2
35°	2469.1	1862.7	644.7	428.1	384.8	351.6	326.2	318.5	336.4	361.8	361.8
37.5°	3042.5	2267.8	654.9	395.0	349.1	310.9	282.8	272.6	285.4	308.3	316.0
40°	3682.0	2757.1	744.1	366.9	316.0	277.7	249.7	239.5	247.2	257.4	259.9
42.5°	4321.6	3276.9	912.2	346.5	290.5	249.7	224.2	216.6	221.7	224.2	226.8
45°	4958.7	3791.6	1123.7	333.8	267.6	226.8	201.3	201.3	203.9	203.9	203.9
47.5°	5562.6	4293.6	1345.4	331.3	247.2	203.9	183.5	186.0	186.0	188.6	188.6
50°	6133.3	4742.1	1569.6	338.9	229.3	183.5	168.2	168.2	168.2	170.7	168.2
52.5°	6609.8	5134.5	1804.1	351.6	211.5	168.2	152.9	152.9	152.9	155.4	152.9
55°	7060.9	5491.2	2043.6	369.5	196.2	155.4	140.1	135.1	135.1	137.6	135.1
57.5°	7427.8	5728.2	2270.4	372.0	183.5	142.7	130.0	122.3	122.3	122.3	122.3
60°	7443.1	5590.6	2336.6	326.2	168.2	130.0	117.2	107.0	109.6	109.6	109.6
62.5°	6956.4	4866.9	1878.0	244.6	150.3	117.2	107.0	96.8	96.8	96.8	96.8
65°	6000.8	3786.5	1100.8	193.7	130.0	104.5	94.3	86.6	86.6	86.6	84.1
66°	5552.4	3320.2	843.4	175.8	122.3	101.9	91.7	84.1	81.5	79.0	79.0
67.5°	4821.1	2624.6	527.5	155.4	112.1	94.3	84.1	76.4	73.9	71.3	71.3
70°	3631.1	1666.5	257.4	119.8	96.8	81.5	73.9	66.3	63.7	61.2	58.6
72.5°	2548.1	975.9	135.1	91.7	79.0	71.3	63.7	56.1	53.5	51.0	51.0
75°	1439.7	471.4	89.2	66.3	63.7	58.6	53.5	45.9	43.3	43.3	43.3
77.5°	545.3	163.1	61.2	48.4	51.0	45.9	38.2	38.2	35.7	38.2	35.7
80°	142.7	71.3	38.2	35.7	38.2	33.1	28.0	30.6	30.6	30.6	30.6
82.5°	76.4	40.8	22.9	25.5	22.9	22.9	17.8	20.4	22.9	20.4	22.9
85°	53.5	20.4	12.7	12.7	10.2	10.2	7.6	10.2	12.7	10.2	10.2
87.5°	28.0	7.6	7.6	7.6	7.6	5.1	2.5	0.0	2.5	2.5	2.5
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)