

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: P1210614

Luminaire Tested: **ARCH3-180-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210614
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: ARCH3-180-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 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: 14428 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

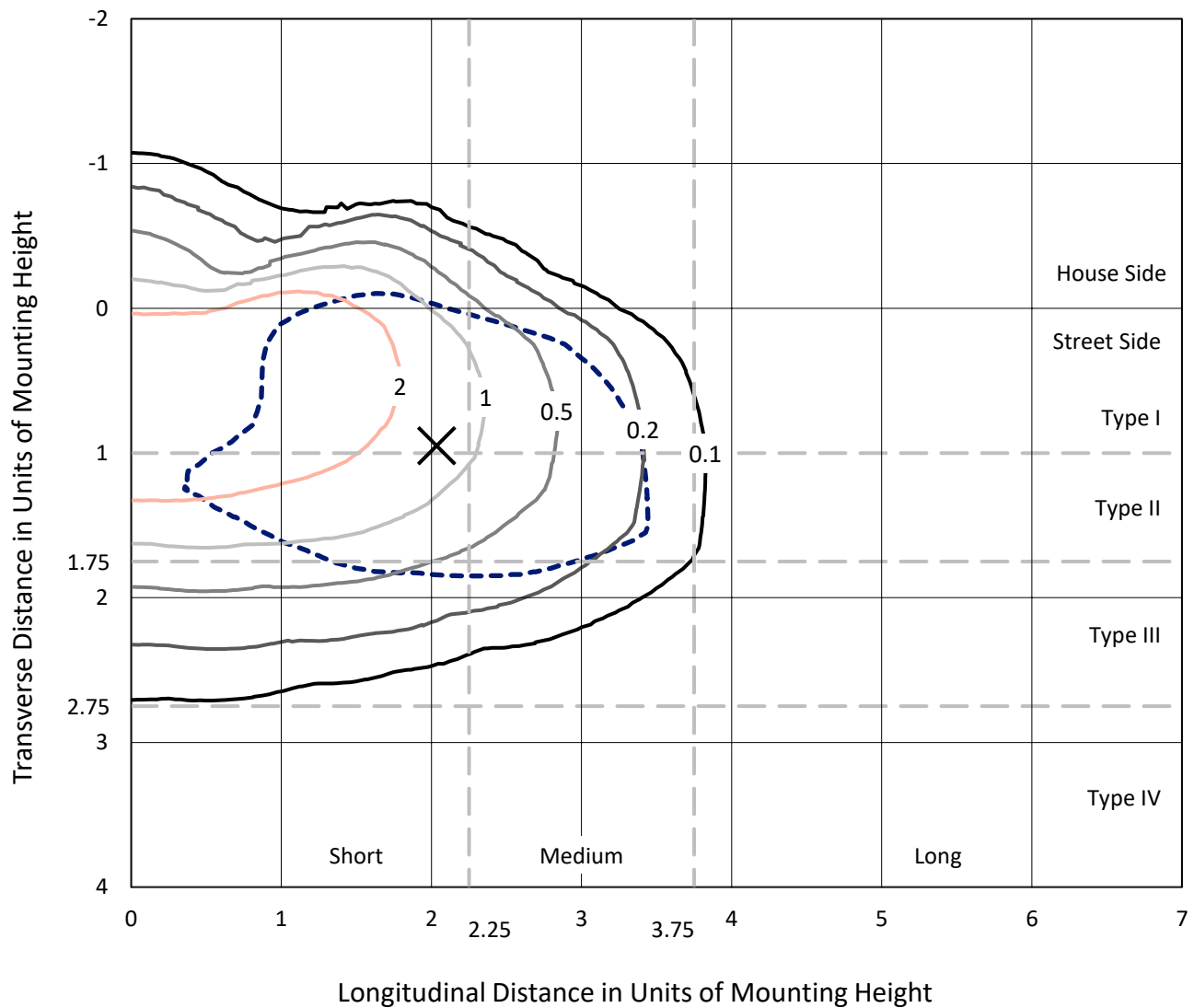
Input Watts (W): 180.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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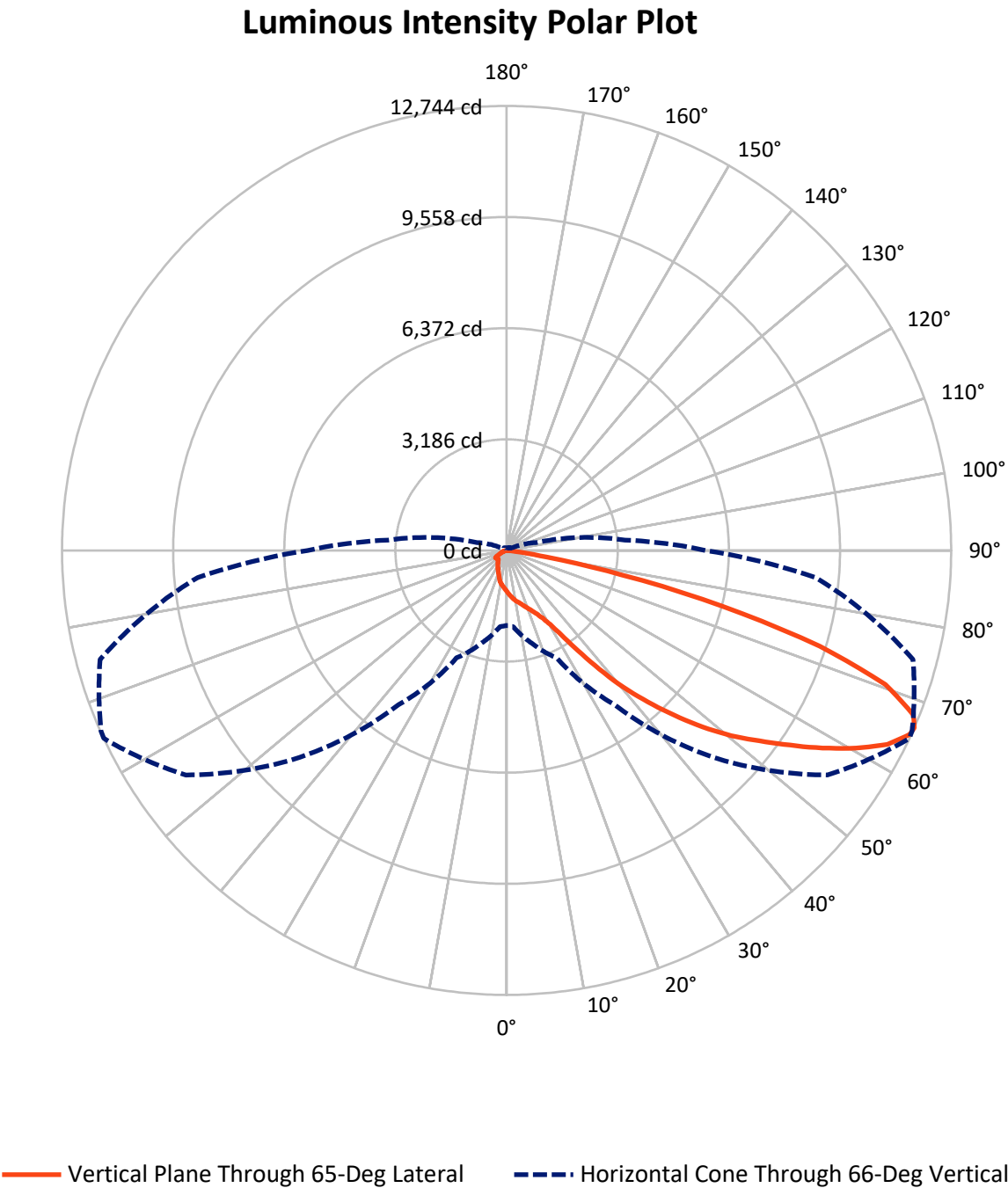
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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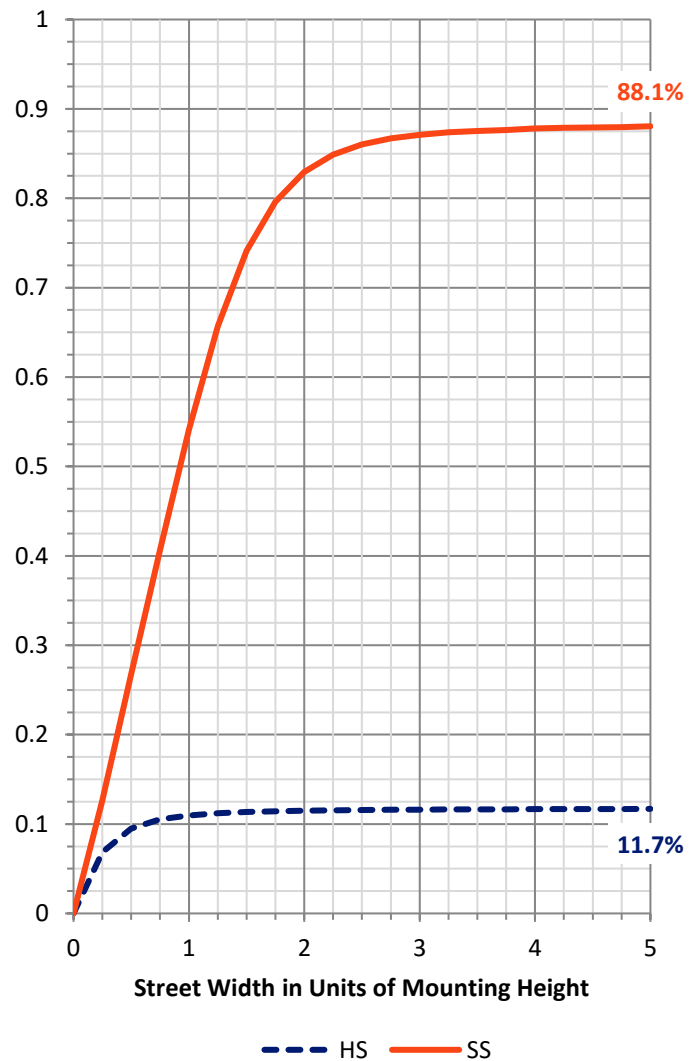
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1702.8	0.0	1702.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	12725.2	0.0	12725.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	14428.0	0.0	14428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	0.8
10°-20°	329.9	2.3
20°-30°	603.8	4.2
30°-40°	1226.9	8.5
40°-50°	2590.9	18.0
50°-60°	3983.0	27.6
60°-70°	4009.2	27.8
70°-80°	1498.0	10.4
80°-90°	74.8	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°	14428.0	100.0
0°-180°	14428.0	100.0

Coefficient of Utilization



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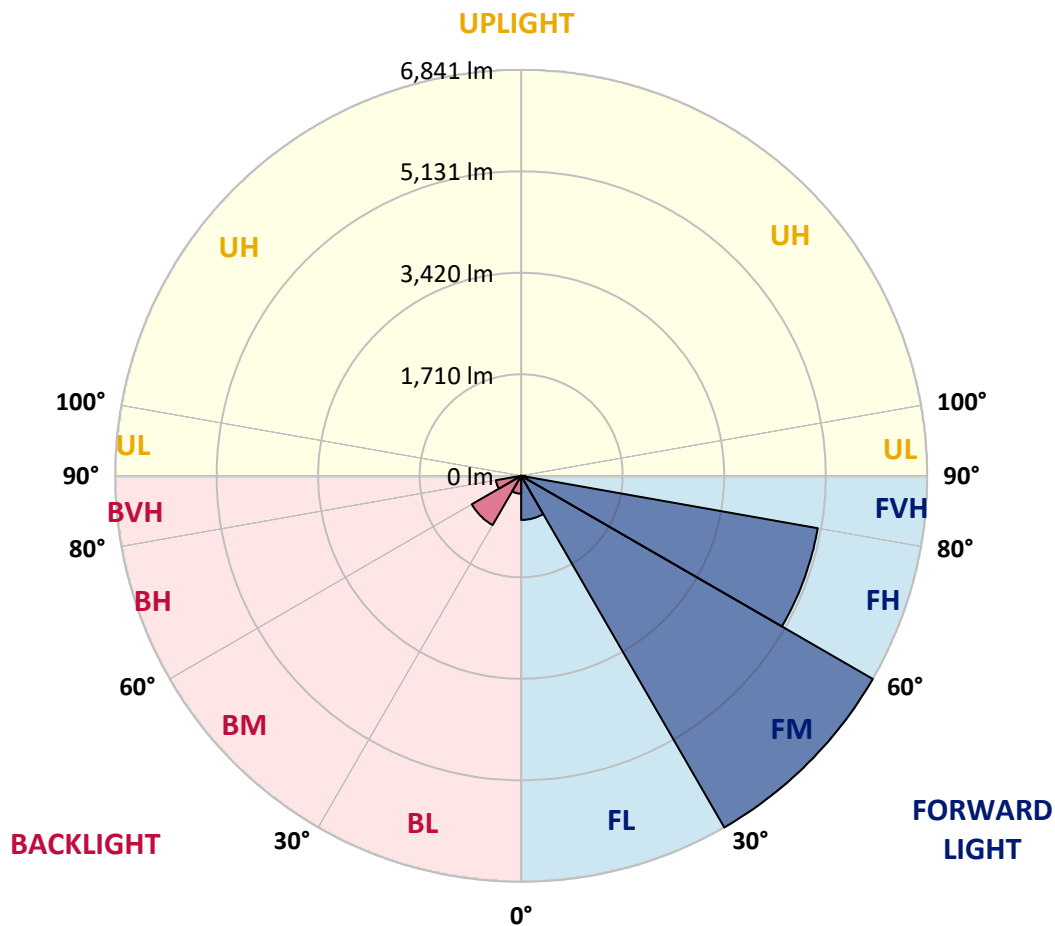
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	743.7	5.2			
FM	(30°-60°)	6840.7	47.4			
FH	(60°-80°)	5074.7	35.2			G3/7500
FVH	(80°-90°)	66.0	0.5			G1/100
BL	(0°-30°)	301.4	2.1	B1/500		
BM	(30°-60°)	960.1	6.7	B1/1000		
BH	(60°-80°)	432.6	3.0	B1/500		G1/500
BVH	(80°-90°)	8.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1175.5	1175.5	1175.5	1175.5	1175.5	1175.5	1175.5	1175.5	1175.5	1175.5	1175.5
2.5°	1340.4	1343.0	1337.8	1327.3	1316.8	1303.8	1282.8	1248.8	1243.5	1220.0	1193.8
5°	1432.0	1437.3	1429.4	1426.8	1421.6	1403.2	1374.4	1324.7	1319.5	1272.3	1212.1
7.5°	1463.5	1471.3	1466.1	1466.1	1466.1	1458.2	1445.1	1400.6	1392.8	1332.6	1240.9
10°	1487.0	1492.3	1489.6	1500.1	1508.0	1502.7	1494.9	1468.7	1460.8	1400.6	1280.2
12.5°	1523.7	1526.3	1528.9	1534.1	1547.2	1552.5	1549.8	1526.3	1521.1	1479.2	1329.9
15°	1557.7	1557.7	1560.3	1583.9	1602.2	1612.7	1615.3	1597.0	1591.7	1557.7	1392.8
17.5°	1589.1	1591.7	1599.6	1625.8	1657.2	1678.1	1691.2	1683.4	1675.5	1649.3	1466.1
20°	1636.2	1641.5	1649.3	1686.0	1717.4	1751.4	1777.6	1775.0	1772.4	1754.1	1552.5
22.5°	1717.4	1722.6	1735.7	1769.8	1801.2	1843.1	1887.6	1885.0	1877.1	1864.0	1654.6
25°	1840.4	1840.4	1848.3	1877.1	1916.4	1966.1	2008.0	2015.8	2008.0	2000.1	1782.8
27.5°	1994.9	1997.5	1997.5	2028.9	2065.6	2128.4	2180.8	2188.6	2188.6	2180.8	1955.6
30°	2209.6	2201.7	2196.5	2222.7	2261.9	2353.6	2445.2	2460.9	2453.1	2466.1	2199.1
32.5°	2578.7	2565.6	2521.1	2526.4	2549.9	2675.6	2830.0	2885.0	2882.4	2906.0	2591.8
35°	3089.2	3063.0	2997.6	2942.6	2940.0	3076.1	3311.8	3518.6	3516.0	3597.1	3188.7
37.5°	3665.2	3699.2	3576.2	3481.9	3453.1	3560.5	3864.1	4311.8	4335.4	4476.8	3971.5
40°	4434.9	4455.8	4298.7	4165.2	4029.1	4068.4	4468.9	5165.3	5207.2	5364.3	4754.3
42.5°	5105.1	5126.0	5034.4	4872.1	4699.3	4626.0	5078.9	5940.2	5974.2	6191.5	5560.6
45°	5560.6	5576.3	5607.7	5623.4	5427.1	5275.2	5825.0	6736.1	6778.0	7029.3	6348.6
47.5°	5916.7	5929.7	5992.6	6149.7	6110.4	5990.0	6584.2	7563.4	7573.8	7854.0	7115.7
50°	6081.6	6113.0	6267.5	6508.3	6681.1	6715.1	7408.9	8346.1	8374.9	8642.0	7840.9
52.5°	5898.3	5908.8	6298.9	6751.8	7100.0	7445.6	8236.2	9071.3	9155.1	9354.1	8492.7
55°	5280.5	5356.4	5948.1	6743.9	7429.8	8139.3	9121.1	9854.1	9930.0	10055.7	9066.1
57.5°	4563.2	4646.9	5366.9	6406.2	7571.2	8780.7	9940.5	10686.6	10739.0	10773.0	9592.3
60°	3942.7	4021.2	4762.1	5759.6	7429.8	9233.6	10702.3	11513.9	11558.4	11466.8	9856.7
62.5°	3180.9	3259.4	4005.5	4903.5	6874.8	9325.3	11267.8	12249.6	12267.9	12019.2	9694.4
65°	2398.1	2450.4	3073.5	3843.2	5903.6	8838.3	11396.1	12707.7	12689.4	12178.9	9207.5
66°	2149.4	2193.9	2743.7	3398.1	5398.3	8393.3	11223.3	12744.4	12726.0	12061.1	8888.1
67.5°	1853.5	1866.6	2319.5	2780.3	4516.0	7448.2	10697.1	12576.8	12592.5	11736.4	8304.3
70°	1447.7	1445.1	1706.9	1934.7	3084.0	5298.8	8922.1	11521.8	11597.7	10511.2	7081.7
72.5°	926.8	895.4	1047.2	1183.3	1795.9	3076.1	6505.7	9390.7	9519.0	8257.1	5275.2
75°	552.4	521.0	557.6	591.7	861.3	1479.2	3824.9	6390.5	6513.6	5293.6	3139.0
77.5°	413.6	400.6	403.2	374.4	382.2	555.0	1746.2	3377.2	3466.2	2167.7	1191.2
80°	316.8	282.7	264.4	277.5	251.3	219.9	649.3	1162.4	1217.4	513.1	248.7
82.5°	212.1	183.3	170.2	185.9	159.7	123.0	157.1	225.1	219.9	138.8	96.9
85°	110.0	94.2	94.2	94.2	81.2	60.2	68.1	91.6	91.6	73.3	57.6
87.5°	31.4	28.8	34.0	31.4	23.6	23.6	26.2	31.4	31.4	28.8	26.2
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°	1175.5	1175.5	1175.5	1175.5	1175.5	1175.5	1175.5	1175.5	1175.5	1175.5	1175.5
2.5°	1172.9	1162.4	1133.6	1112.6	1091.7	1073.4	1052.4	1047.2	1036.7	1039.3	1034.1
5°	1180.7	1151.9	1102.2	1055.0	1018.4	987.0	947.7	932.0	911.1	903.2	898.0
7.5°	1191.2	1149.3	1076.0	1010.5	947.7	884.9	822.0	785.4	761.8	751.4	743.5
10°	1214.7	1159.8	1062.9	960.8	853.5	764.5	701.6	675.4	659.7	657.1	654.5
12.5°	1246.2	1175.5	1049.8	898.0	756.6	672.8	633.6	625.7	623.1	623.1	620.5
15°	1293.3	1201.7	1028.9	824.7	680.7	623.1	604.8	591.7	586.4	586.4	586.4
17.5°	1340.4	1233.1	997.5	748.7	628.3	591.7	573.3	565.5	560.2	562.9	560.2
20°	1400.6	1269.7	955.6	683.3	594.3	565.5	547.2	539.3	536.7	536.7	536.7
22.5°	1468.7	1311.6	903.2	633.6	565.5	539.3	521.0	513.1	507.9	510.5	510.5
25°	1560.3	1364.0	848.2	583.8	536.7	513.1	492.2	481.7	481.7	484.3	486.9
27.5°	1678.1	1426.8	793.2	552.4	510.5	486.9	463.4	452.9	455.5	460.8	460.8
30°	1850.9	1513.2	738.3	518.4	481.7	455.5	434.6	424.1	429.3	439.8	439.8
32.5°	2097.0	1654.6	691.1	479.1	439.8	411.0	390.1	382.2	395.3	416.3	416.3
35°	2536.8	1913.7	662.4	439.8	395.3	361.3	335.1	327.2	345.6	371.8	371.8
37.5°	3125.9	2330.0	672.8	405.8	358.7	319.4	290.6	280.1	293.2	316.8	324.6
40°	3783.0	2832.7	764.5	377.0	324.6	285.4	256.6	246.1	253.9	264.4	267.0
42.5°	4440.1	3366.7	937.2	356.0	298.5	256.6	230.4	222.5	227.8	230.4	233.0
45°	5094.6	3895.6	1154.5	343.0	274.9	233.0	206.8	206.8	209.4	209.4	209.4
47.5°	5715.1	4411.3	1382.3	340.3	253.9	209.4	188.5	191.1	191.1	193.7	193.7
50°	6301.5	4872.1	1612.7	348.2	235.6	188.5	172.8	172.8	172.8	175.4	172.8
52.5°	6791.1	5275.2	1853.5	361.3	217.3	172.8	157.1	157.1	157.1	159.7	157.1
55°	7254.4	5641.8	2099.6	379.6	201.6	159.7	144.0	138.8	138.8	141.4	138.8
57.5°	7631.4	5885.2	2332.6	382.2	188.5	146.6	133.5	125.7	125.7	125.7	125.7
60°	7647.1	5743.9	2400.7	335.1	172.8	133.5	120.4	110.0	112.6	112.6	112.6
62.5°	7147.1	5000.4	1929.5	251.3	154.5	120.4	110.0	99.5	99.5	99.5	99.5
65°	6165.4	3890.3	1131.0	199.0	133.5	107.3	96.9	89.0	89.0	89.0	86.4
66°	5704.6	3411.2	866.6	180.6	125.7	104.7	94.2	86.4	83.8	81.2	81.2
67.5°	4953.2	2696.5	541.9	159.7	115.2	96.9	86.4	78.5	75.9	73.3	73.3
70°	3730.6	1712.2	264.4	123.0	99.5	83.8	75.9	68.1	65.4	62.8	60.2
72.5°	2618.0	1002.7	138.8	94.2	81.2	73.3	65.4	57.6	55.0	52.4	52.4
75°	1479.2	484.3	91.6	68.1	65.4	60.2	55.0	47.1	44.5	44.5	44.5
77.5°	560.2	167.6	62.8	49.7	52.4	47.1	39.3	39.3	36.7	39.3	36.7
80°	146.6	73.3	39.3	36.7	39.3	34.0	28.8	31.4	31.4	31.4	31.4
82.5°	78.5	41.9	23.6	26.2	23.6	23.6	18.3	20.9	23.6	20.9	23.6
85°	55.0	20.9	13.1	13.1	10.5	10.5	7.9	10.5	13.1	10.5	10.5
87.5°	28.8	7.9	7.9	7.9	7.9	5.2	2.6	0.0	2.6	2.6	2.6
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)