

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: P1210815

Luminaire Tested: **ARCH3-80-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-80-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12697 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 81.9
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

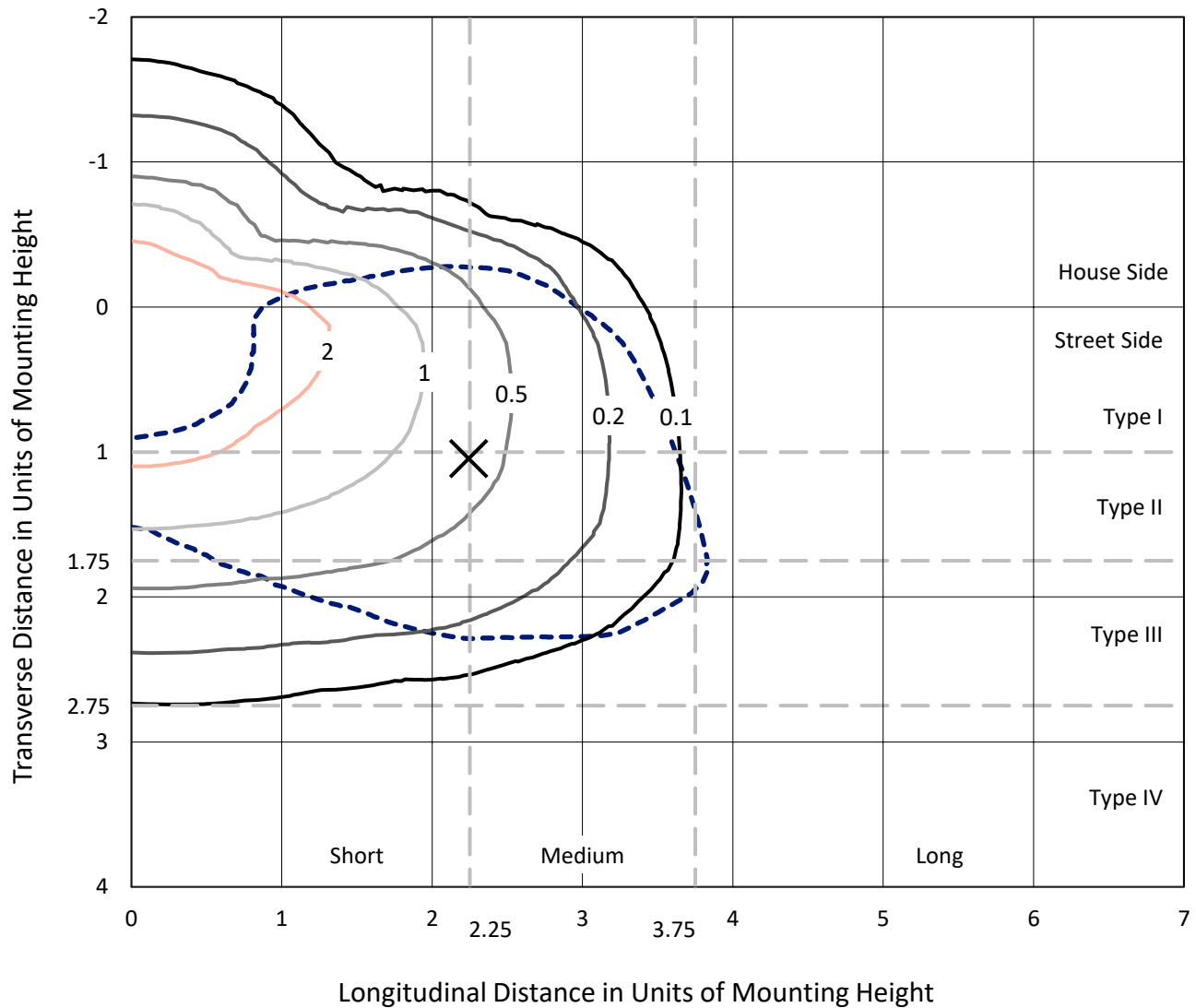


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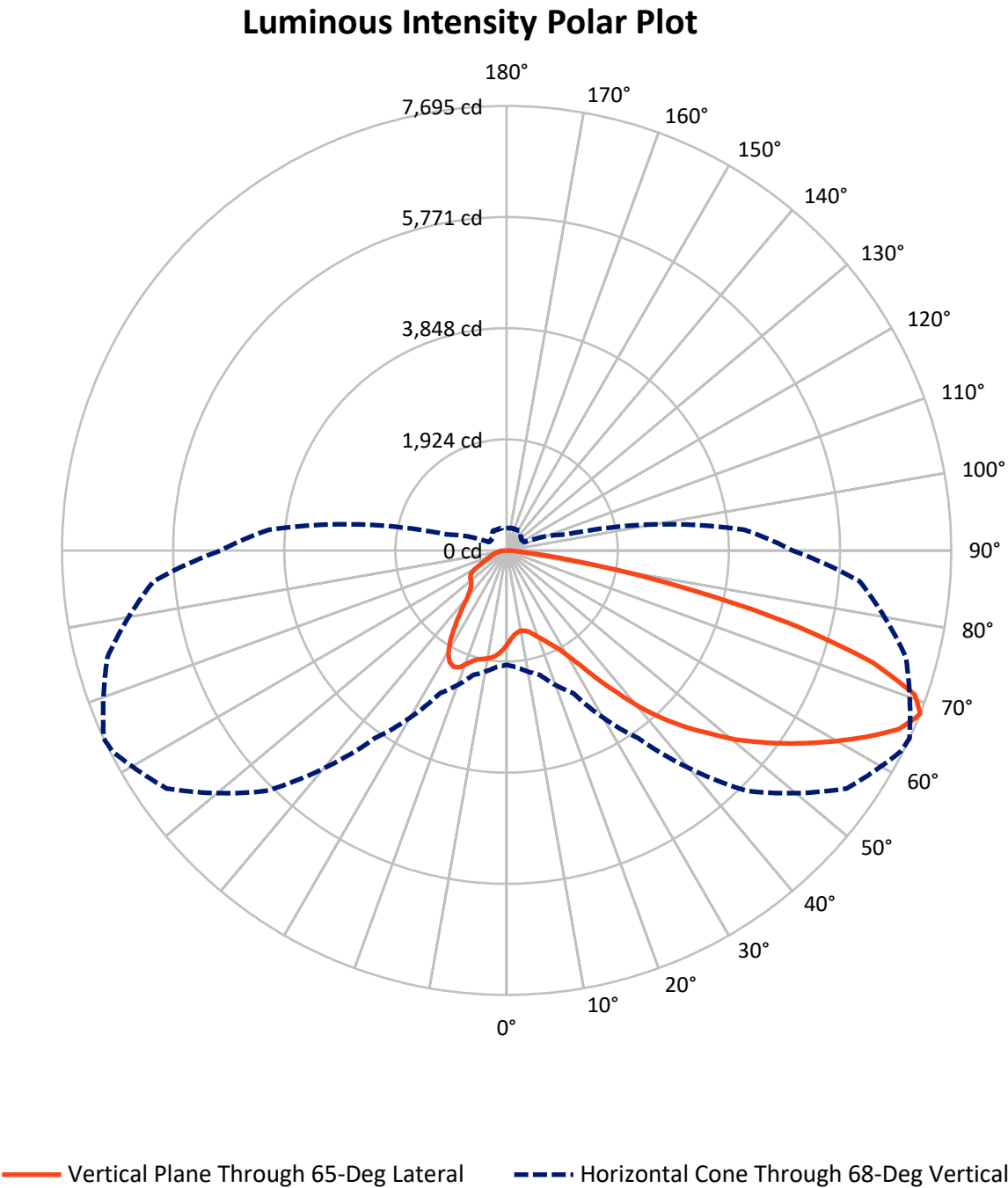
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

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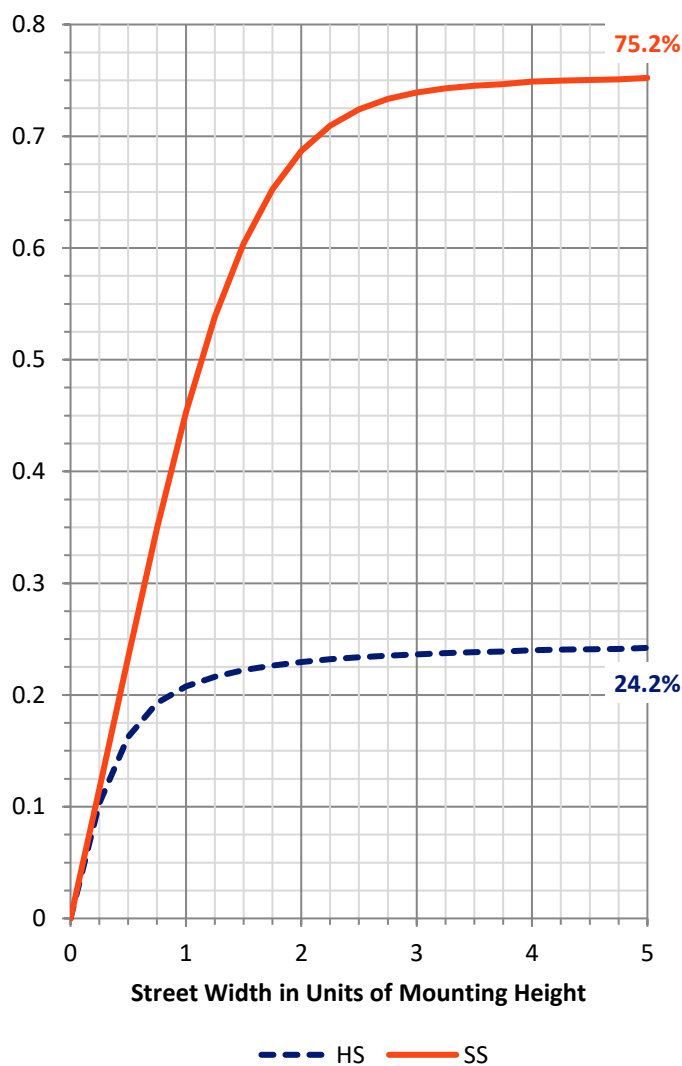
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3112.9	0.0	3112.9
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	9584.1	0.0	9584.1
	% Fixture	75.5	0.0	75.5
Total	Lumens	12697.0	0.0	12697.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	1.2
10°-20°	504.9	4.0
20°-30°	913.8	7.2
30°-40°	1437.5	11.3
40°-50°	2141.0	16.9
50°-60°	2808.6	22.1
60°-70°	3071.4	24.2
70°-80°	1519.8	12.0
80°-90°	145.0	1.1
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°	12697.0	100.0
0°-180°	12697.0	100.0

Coefficient of Utilization



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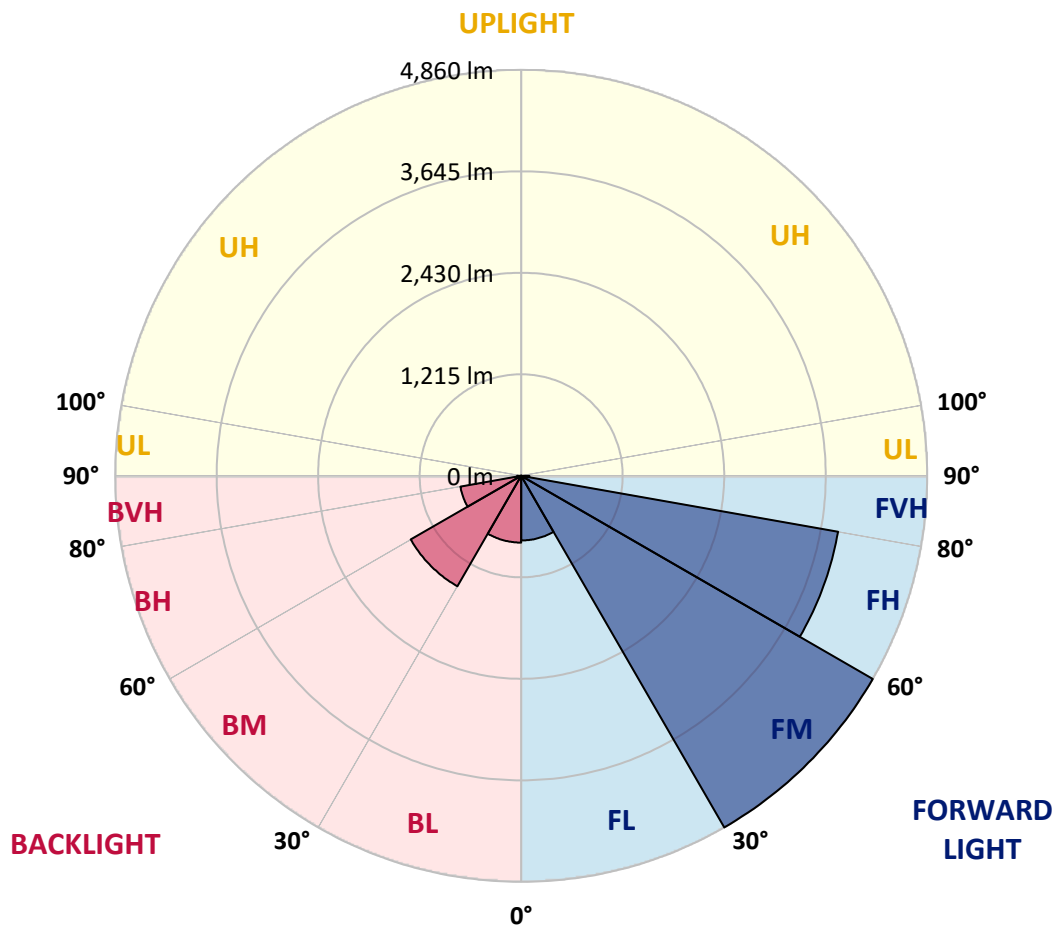
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	774.0	6.1			
FM	(30°-60°)	4860.2	38.3			
FH	(60°-80°)	3852.3	30.3			G2/5000
FVH	(80°-90°)	97.5	0.8			G1/100
BL	(0°-30°)	799.7	6.3	B2/1000		
BM	(30°-60°)	1526.9	12.0	B2/2500		
BH	(60°-80°)	738.9	5.8	B2/1000		G2/1000
BVH	(80°-90°)	47.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5
2.5°	1416.2	1413.0	1421.1	1429.3	1447.3	1468.6	1498.1	1522.6	1525.9	1571.8	1607.8
5°	1332.7	1327.8	1336.0	1345.8	1354.0	1380.2	1411.3	1447.3	1462.1	1529.2	1606.1
7.5°	1340.9	1339.3	1342.6	1339.3	1339.3	1350.7	1372.0	1408.0	1424.4	1504.6	1614.3
10°	1388.4	1391.7	1393.3	1383.5	1373.7	1368.7	1375.3	1399.9	1411.3	1506.3	1650.4
12.5°	1467.0	1471.9	1473.5	1455.5	1442.4	1421.1	1409.7	1419.5	1427.7	1522.6	1701.1
15°	1573.4	1576.7	1565.2	1553.8	1521.0	1494.8	1467.0	1458.8	1462.1	1557.0	1758.4
17.5°	1697.8	1692.9	1692.9	1665.1	1622.5	1581.6	1535.7	1529.2	1529.2	1612.7	1840.3
20°	1833.7	1838.6	1823.9	1786.2	1743.7	1679.8	1634.0	1604.5	1607.8	1676.6	1940.2
22.5°	2030.2	2038.4	1999.1	1945.1	1879.6	1805.9	1740.4	1692.9	1694.6	1760.1	2043.3
25°	2241.4	2244.7	2220.1	2148.1	2059.7	1954.9	1868.1	1807.5	1805.9	1853.4	2175.9
27.5°	2457.5	2472.3	2423.1	2354.4	2272.5	2141.5	2026.9	1945.1	1932.0	1995.8	2341.3
30°	2680.2	2698.2	2650.7	2583.6	2482.1	2370.7	2234.9	2139.9	2131.7	2216.8	2562.3
32.5°	2904.5	2909.4	2871.7	2816.1	2724.4	2619.6	2509.9	2405.1	2396.9	2536.1	2848.8
35°	3087.9	3102.6	3076.4	3063.3	2996.2	2899.6	2793.2	2732.6	2753.9	2932.3	3220.5
37.5°	3308.9	3323.6	3294.2	3290.9	3269.6	3186.1	3112.4	3117.3	3138.6	3380.9	3611.8
40°	3628.2	3644.5	3569.2	3536.5	3536.5	3454.6	3430.1	3546.3	3574.1	3823.0	4019.5
42.5°	3898.3	3924.5	3880.3	3859.0	3795.2	3737.9	3767.3	3931.1	3978.5	4245.4	4374.8
45°	4029.3	4048.9	4101.3	4163.5	4101.3	4001.5	4112.8	4297.8	4364.9	4635.1	4730.0
47.5°	4099.7	4117.7	4178.3	4345.3	4387.9	4304.4	4461.5	4692.4	4738.2	5021.5	5068.9
50°	4109.5	4166.8	4245.4	4412.4	4607.2	4618.7	4811.9	5093.5	5147.5	5401.3	5366.9
52.5°	4029.3	4052.2	4214.3	4495.9	4712.0	4908.5	5193.4	5478.3	5517.6	5758.2	5630.5
55°	3898.3	3931.1	4093.1	4476.3	4813.5	5183.6	5581.4	5856.5	5900.7	6105.3	5874.5
57.5°	3780.4	3796.8	3970.3	4419.0	4915.0	5458.6	5926.9	6251.0	6280.5	6409.9	6054.6
60°	3649.4	3667.5	3841.0	4296.2	4990.4	5666.5	6287.1	6648.9	6675.1	6730.8	6264.1
62.5°	3310.5	3358.0	3575.8	4093.1	4970.7	5904.0	6671.8	7041.8	7074.6	7014.0	6429.5
65°	2688.4	2755.5	3022.4	3633.1	4787.3	6057.9	6986.2	7403.7	7459.3	7226.9	6473.7
67.5°	2087.5	2135.0	2349.5	2883.2	4143.9	5980.9	7189.2	7652.5	7668.9	7192.5	6228.1
68°	1979.4	2026.9	2231.6	2726.0	3965.4	5889.2	7184.3	7659.1	7695.1	7154.8	6133.2
70°	1514.5	1568.5	1763.3	2159.5	3195.9	5306.4	6884.7	7501.9	7497.0	6699.7	5543.8
72.5°	946.3	977.4	1111.7	1362.2	2113.7	4037.5	5843.4	6616.2	6629.3	5461.9	4252.0
75°	600.9	600.9	594.3	659.8	1083.9	2300.3	4343.6	5093.5	5103.3	3824.6	2680.2
77.5°	522.3	507.5	437.1	370.0	432.2	893.9	2570.5	3289.3	3235.2	2059.7	1272.1
80°	440.4	415.9	358.6	298.0	278.3	280.0	987.3	1670.0	1598.0	741.7	422.4
82.5°	317.6	296.3	270.1	234.1	214.5	167.0	206.3	483.0	471.5	214.5	137.5
85°	171.9	155.5	152.3	153.9	129.3	103.1	86.8	106.4	106.4	93.3	78.6
87.5°	60.6	44.2	52.4	58.9	50.8	42.6	34.4	40.9	42.6	40.9	37.7
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°	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5	1622.5
2.5°	1629.1	1645.4	1684.7	1719.1	1743.7	1765.0	1776.4	1781.3	1792.8	1794.4	1791.2
5°	1642.2	1684.7	1743.7	1794.4	1822.3	1833.7	1837.0	1838.6	1833.7	1837.0	1833.7
7.5°	1676.6	1730.6	1814.1	1858.3	1863.2	1845.2	1846.8	1840.3	1846.8	1853.4	1853.4
10°	1728.9	1797.7	1876.3	1892.7	1871.4	1861.6	1881.2	1920.5	1933.6	1951.6	1951.6
12.5°	1797.7	1879.6	1935.2	1920.5	1900.9	1933.6	1990.9	2030.2	2043.3	2049.8	2044.9
15°	1876.3	1964.7	1992.5	1943.4	1979.4	2049.8	2069.5	2046.6	2013.8	1999.1	2007.3
17.5°	1976.2	2049.8	2033.5	2000.7	2082.6	2092.4	2028.6	1954.9	1902.5	1882.8	1895.9
20°	2081.0	2144.8	2069.5	2084.2	2135.0	2030.2	1909.0	1814.1	1768.2	1760.1	1773.1
22.5°	2192.3	2233.2	2105.5	2180.8	2105.5	1892.7	1747.0	1697.8	1686.4	1699.5	1710.9
25°	2318.4	2313.4	2167.7	2210.3	1995.8	1724.0	1637.3	1634.0	1634.0	1642.2	1658.5
27.5°	2460.8	2383.8	2229.9	2171.0	1805.9	1584.9	1568.5	1570.1	1565.2	1566.9	1575.0
30°	2626.2	2478.8	2298.7	2041.7	1593.1	1480.1	1473.5	1468.6	1457.2	1453.9	1457.2
32.5°	2834.1	2578.7	2369.1	1828.8	1406.4	1372.0	1368.7	1342.6	1314.7	1311.4	1322.9
35°	3097.7	2760.4	2405.1	1561.9	1252.5	1250.9	1239.4	1198.5	1162.5	1162.5	1154.3
37.5°	3398.9	2994.5	2419.9	1301.6	1124.8	1133.0	1100.2	1047.8	1020.0	1003.6	1008.6
40°	3706.8	3261.4	2418.2	1074.0	1013.5	1015.1	990.5	926.7	857.9	817.0	826.8
42.5°	4003.1	3503.7	2375.7	952.9	923.4	918.5	898.9	812.1	754.8	722.0	723.7
45°	4240.5	3754.2	2310.2	880.8	841.6	849.7	805.5	753.1	700.7	671.3	669.6
47.5°	4477.9	3944.2	2205.4	836.6	781.0	766.2	748.2	712.2	672.9	640.2	641.8
50°	4694.0	4106.2	2107.2	807.2	725.3	687.6	690.9	669.6	635.3	605.8	604.1
52.5°	4846.3	4212.7	2053.1	790.8	658.2	617.2	628.7	617.2	584.5	563.2	561.6
55°	4998.5	4294.5	2071.1	769.5	584.5	551.8	571.4	568.1	550.1	543.6	545.2
57.5°	5121.3	4356.7	2135.0	730.2	514.1	494.5	527.2	517.4	504.3	505.9	505.9
60°	5240.9	4437.0	2210.3	640.2	453.5	455.2	486.3	468.3	460.1	474.8	476.4
62.5°	5365.3	4523.7	2148.1	509.2	401.1	412.6	448.6	433.9	437.1	458.4	465.0
65°	5350.6	4515.6	1750.2	417.5	355.3	378.2	432.2	427.3	429.0	437.1	440.4
67.5°	5049.3	4227.4	1203.4	355.3	322.5	350.4	419.1	399.5	401.1	396.2	397.9
68°	4947.8	4125.9	1060.9	345.5	316.0	343.8	412.6	394.6	396.2	391.3	389.7
70°	4394.4	3533.2	671.3	304.5	293.1	325.8	379.8	373.3	371.7	368.4	368.4
72.5°	3349.8	2608.2	353.6	263.6	266.9	298.0	338.9	352.0	343.8	345.5	355.3
75°	2218.5	1568.5	245.6	225.9	234.1	255.4	301.3	327.5	319.3	324.2	319.3
77.5°	1173.9	844.8	196.5	191.6	191.6	206.3	248.9	289.8	289.8	286.5	281.6
80°	384.8	298.0	157.2	150.6	153.9	162.1	199.7	237.4	242.3	235.8	232.5
82.5°	129.3	137.5	117.9	109.7	113.0	119.5	150.6	181.7	183.4	170.3	167.0
85°	80.2	91.7	73.7	72.0	72.0	73.7	91.7	99.9	91.7	81.9	85.1
87.5°	37.7	45.8	34.4	29.5	24.6	21.3	16.4	6.5	6.5	3.3	3.3
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)