

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: P1210303

Luminaire Tested: **ARCH2-80-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210303
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: ARCH2-80-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11128 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 84.3
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

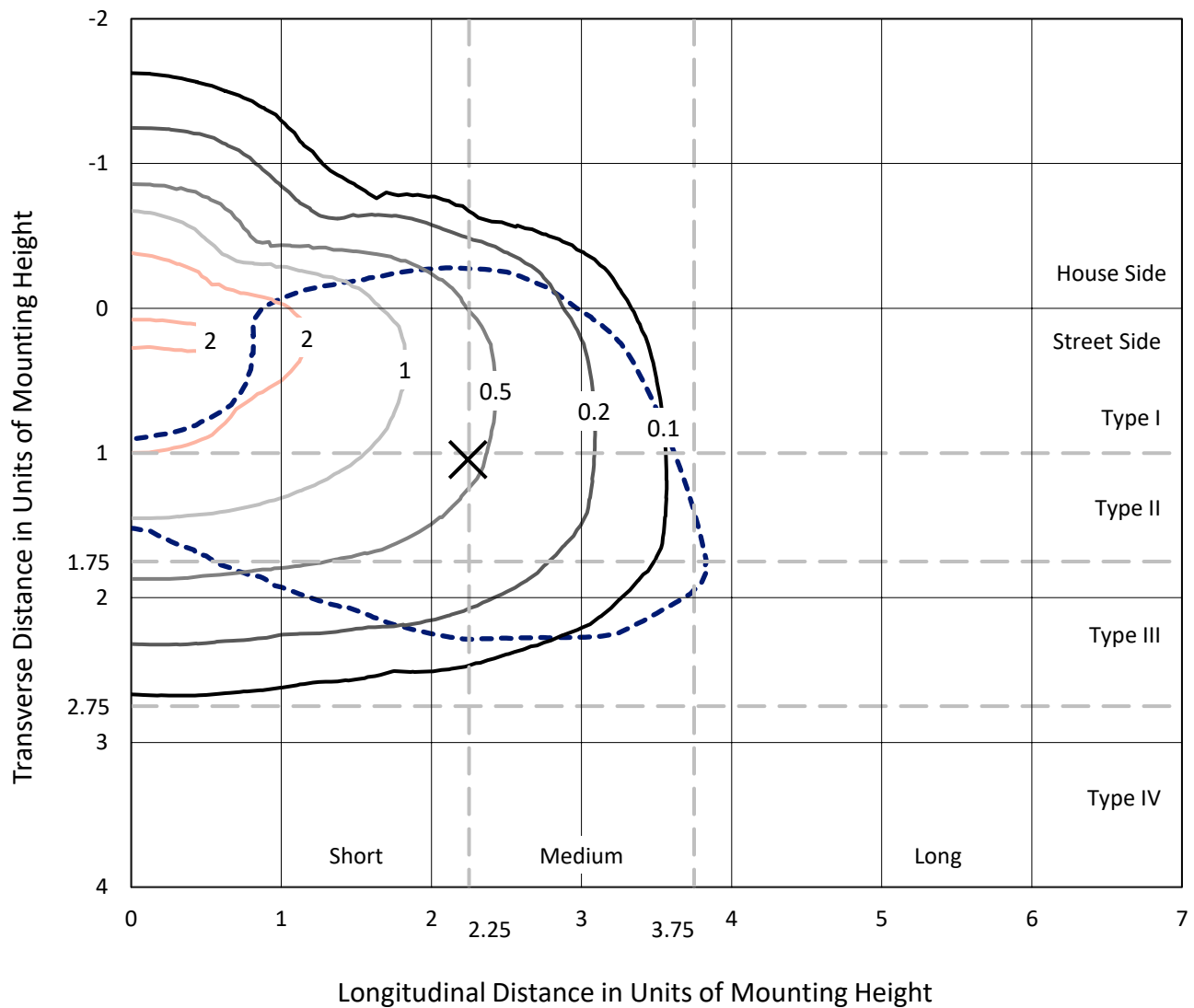


REPORT NUMBER: P1210303

CATALOG NUMBER: ARCH2-80-730-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

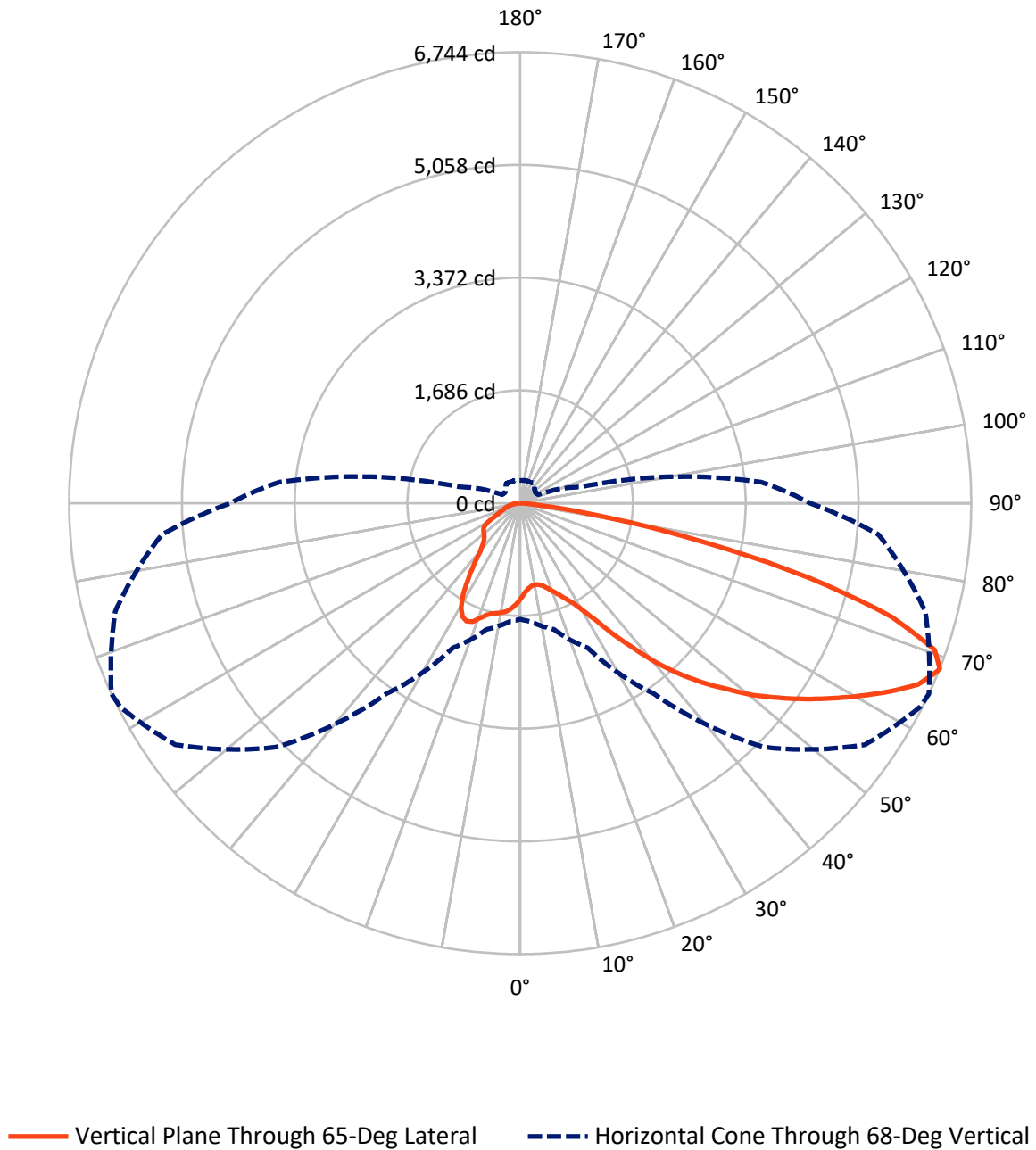
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type III - Short - N/A

REPORT NUMBER: P1210303
CATALOG NUMBER: ARCH2-80-730-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210303

CATALOG NUMBER: ARCH2-80-730-U-T3RE

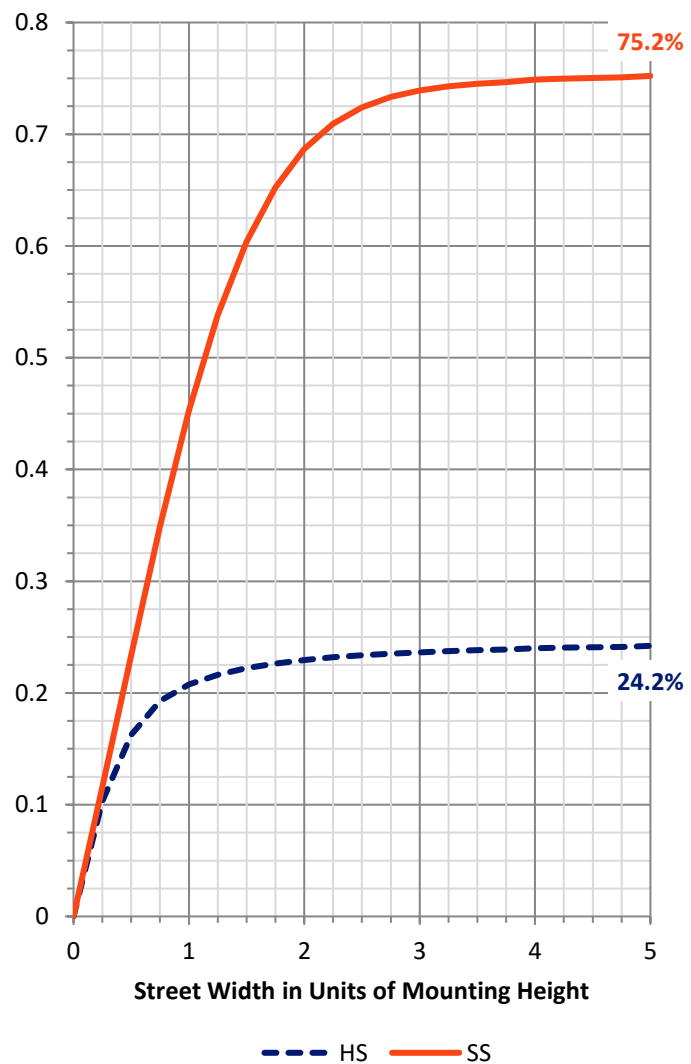
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2728.3	0.0	2728.3
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	8399.8	0.0	8399.8
	% Fixture	75.5	0.0	75.5
Total	Lumens	11128.0	0.0	11128.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	1.2
10°-20°	442.5	4.0
20°-30°	800.9	7.2
30°-40°	1259.9	11.3
40°-50°	1876.4	16.9
50°-60°	2461.5	22.1
60°-70°	2691.8	24.2
70°-80°	1332.0	12.0
80°-90°	127.1	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°	11128.0	100.0
0°-180°	11128.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210303

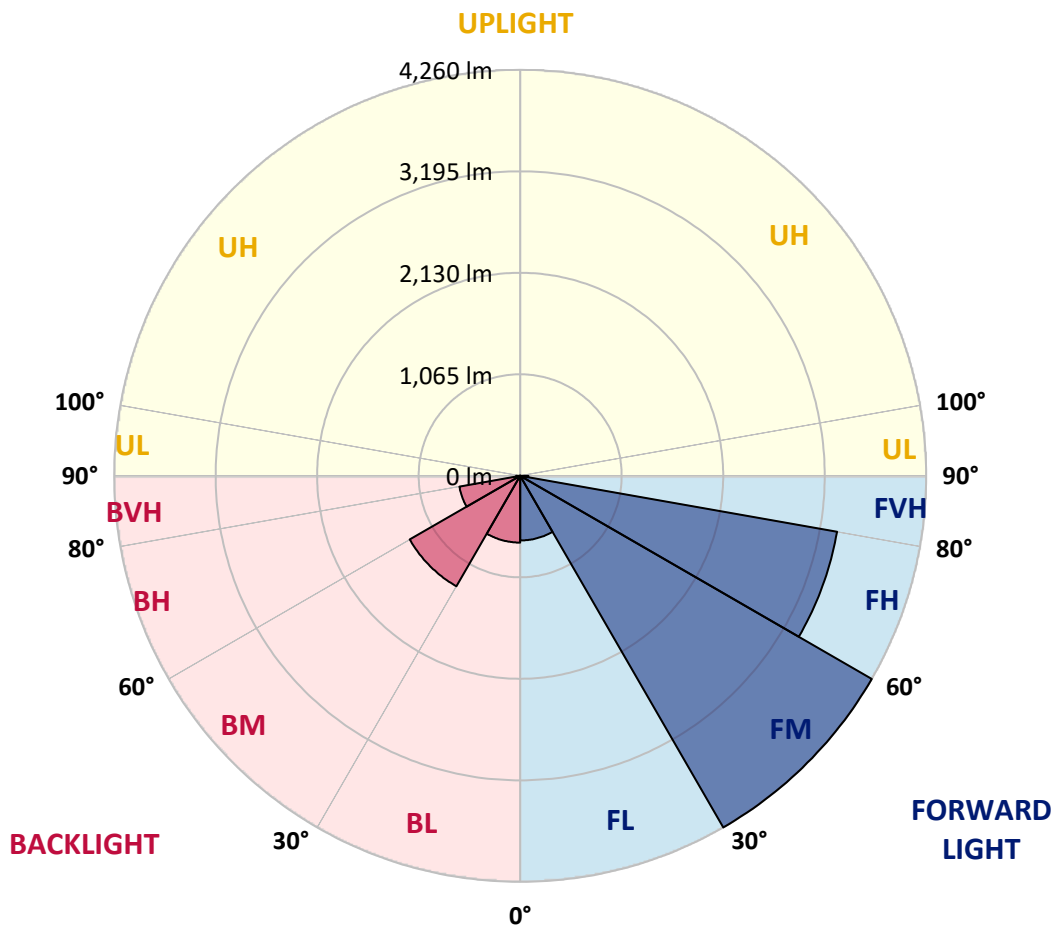
CATALOG NUMBER: ARCH2-80-730-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	678.4	6.1			
FM	(30°-60°)	4259.6	38.3			
FH	(60°-80°)	3376.3	30.3			G2/5000
FVH	(80°-90°)	85.5	0.8			G1/100
BL	(0°-30°)	700.9	6.3	B2/1000		
BM	(30°-60°)	1338.2	12.0	B2/2500		
BH	(60°-80°)	647.6	5.8	B2/1000		G2/1000
BVH	(80°-90°)	41.6	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



REPORT NUMBER: P1210303

CATALOG NUMBER: ARCH2-80-730-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0
2.5°	1241.2	1238.4	1245.5	1252.7	1268.5	1287.1	1313.0	1334.5	1337.4	1377.5	1409.1
5°	1168.0	1163.7	1170.9	1179.5	1186.7	1209.7	1236.9	1268.5	1281.4	1340.2	1407.7
7.5°	1175.2	1173.8	1176.6	1173.8	1173.8	1183.8	1202.5	1234.0	1248.4	1318.7	1414.8
10°	1216.8	1219.7	1221.1	1212.5	1203.9	1199.6	1205.3	1226.9	1236.9	1320.1	1446.4
12.5°	1285.7	1290.0	1291.4	1275.7	1264.2	1245.5	1235.5	1244.1	1251.3	1334.5	1490.9
15°	1379.0	1381.8	1371.8	1361.8	1333.1	1310.1	1285.7	1278.5	1281.4	1364.6	1541.1
17.5°	1488.0	1483.7	1483.7	1459.3	1422.0	1386.1	1346.0	1340.2	1340.2	1413.4	1612.9
20°	1607.1	1611.4	1598.5	1565.5	1528.2	1472.2	1432.1	1406.2	1409.1	1469.4	1700.4
22.5°	1779.3	1786.5	1752.1	1704.7	1647.3	1582.7	1525.3	1483.7	1485.2	1542.6	1790.8
25°	1964.4	1967.3	1945.8	1882.6	1805.2	1713.3	1637.3	1584.2	1582.7	1624.3	1907.0
27.5°	2153.8	2166.8	2123.7	2063.4	1991.7	1876.9	1776.5	1704.7	1693.2	1749.2	2052.0
30°	2349.0	2364.8	2323.2	2264.3	2175.4	2077.8	1958.7	1875.5	1868.3	1942.9	2245.7
32.5°	2545.6	2549.9	2516.9	2468.1	2387.7	2295.9	2199.8	2107.9	2100.7	2222.7	2496.8
35°	2706.3	2719.2	2696.2	2684.8	2625.9	2541.3	2448.0	2394.9	2413.6	2570.0	2822.5
37.5°	2900.0	2912.9	2887.1	2884.2	2865.6	2792.4	2727.8	2732.1	2750.8	2963.1	3165.5
40°	3179.8	3194.2	3128.2	3099.5	3099.5	3027.7	3006.2	3108.1	3132.5	3350.6	3522.8
42.5°	3416.6	3439.5	3400.8	3382.1	3326.2	3276.0	3301.8	3445.3	3486.9	3720.8	3834.2
45°	3531.4	3548.6	3594.5	3649.0	3594.5	3507.0	3604.6	3766.7	3825.5	4062.3	4145.5
47.5°	3593.1	3608.9	3662.0	3808.3	3845.6	3772.5	3910.2	4112.5	4152.7	4401.0	4442.6
50°	3601.7	3651.9	3720.8	3867.2	4037.9	4048.0	4217.3	4464.1	4511.4	4733.9	4703.7
52.5°	3531.4	3551.5	3693.5	3940.3	4129.8	4301.9	4551.6	4801.3	4835.7	5046.7	4934.8
55°	3416.6	3445.3	3587.3	3923.1	4218.7	4543.0	4891.7	5132.8	5171.5	5350.9	5148.6
57.5°	3313.3	3327.6	3479.7	3872.9	4307.7	4784.1	5194.5	5478.6	5504.4	5617.8	5306.4
60°	3198.5	3214.3	3366.4	3765.3	4373.7	4966.3	5510.2	5827.3	5850.2	5899.0	5490.1
62.5°	2901.4	2943.1	3133.9	3587.3	4356.5	5174.4	5847.4	6171.7	6200.4	6147.3	5635.0
65°	2356.2	2415.0	2648.9	3184.1	4195.8	5309.3	6122.9	6488.8	6537.6	6333.8	5673.7
67.5°	1829.5	1871.2	2059.1	2526.9	3631.8	5241.8	6300.8	6706.9	6721.2	6303.7	5458.5
68°	1734.8	1776.5	1955.8	2389.2	3475.4	5161.5	6296.5	6712.6	6744.2	6270.7	5375.3
70°	1327.3	1374.7	1545.4	1892.7	2801.0	4650.6	6033.9	6574.9	6570.6	5871.8	4858.7
72.5°	829.4	856.7	974.3	1193.9	1852.5	3538.6	5121.3	5798.6	5810.1	4787.0	3726.5
75°	526.6	526.6	520.9	578.3	949.9	2016.1	3806.9	4464.1	4472.7	3352.0	2349.0
77.5°	457.7	444.8	383.1	324.3	378.8	783.5	2252.9	2882.8	2835.4	1805.2	1114.9
80°	386.0	364.5	314.3	261.2	243.9	245.4	865.3	1463.6	1400.5	650.0	370.2
82.5°	278.4	259.7	236.8	205.2	188.0	146.4	180.8	423.3	413.3	188.0	120.5
85°	150.7	136.3	133.4	134.9	113.4	90.4	76.1	93.3	93.3	81.8	68.9
87.5°	53.1	38.7	45.9	51.7	44.5	37.3	30.1	35.9	37.3	35.9	33.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1210303

CATALOG NUMBER: ARCH2-80-730-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0
2.5°	1427.8	1442.1	1476.6	1506.7	1528.2	1546.9	1556.9	1561.2	1571.3	1572.7	1569.8
5°	1439.2	1476.6	1528.2	1572.7	1597.1	1607.1	1610.0	1611.4	1607.1	1610.0	1607.1
7.5°	1469.4	1516.7	1589.9	1628.7	1633.0	1617.2	1618.6	1612.9	1618.6	1624.3	1624.3
10°	1515.3	1575.6	1644.4	1658.8	1640.1	1631.5	1648.7	1683.2	1694.7	1710.4	1710.4
12.5°	1575.6	1647.3	1696.1	1683.2	1666.0	1694.7	1744.9	1779.3	1790.8	1796.5	1792.2
15°	1644.4	1721.9	1746.3	1703.3	1734.8	1796.5	1813.8	1793.7	1765.0	1752.1	1759.2
17.5°	1732.0	1796.5	1782.2	1753.5	1825.2	1833.9	1777.9	1713.3	1667.4	1650.2	1661.7
20°	1823.8	1879.8	1813.8	1826.7	1871.2	1779.3	1673.1	1589.9	1549.7	1542.6	1554.0
22.5°	1921.4	1957.3	1845.3	1911.3	1845.3	1658.8	1531.1	1488.0	1478.0	1489.5	1499.5
25°	2031.9	2027.6	1899.9	1937.2	1749.2	1511.0	1434.9	1432.1	1432.1	1439.2	1453.6
27.5°	2156.7	2089.3	1954.4	1902.7	1582.7	1389.0	1374.7	1376.1	1371.8	1373.2	1380.4
30°	2301.6	2172.5	2014.7	1789.4	1396.2	1297.2	1291.4	1287.1	1277.1	1274.2	1277.1
32.5°	2483.9	2260.0	2076.4	1602.8	1232.6	1202.5	1199.6	1176.6	1152.3	1149.4	1159.4
35°	2714.9	2419.3	2107.9	1368.9	1097.7	1096.3	1086.2	1050.4	1018.8	1018.8	1011.6
37.5°	2978.9	2624.5	2120.8	1140.8	985.8	993.0	964.3	918.4	894.0	879.6	883.9
40°	3248.7	2858.4	2119.4	941.3	888.2	889.7	868.1	812.2	751.9	716.0	724.6
42.5°	3508.4	3070.8	2082.1	835.1	809.3	805.0	787.8	711.7	661.5	632.8	634.2
45°	3716.5	3290.3	2024.7	772.0	737.6	744.7	706.0	660.1	614.2	588.3	586.9
47.5°	3924.6	3456.8	1932.9	733.3	684.5	671.6	655.8	624.2	589.8	561.1	562.5
50°	4114.0	3598.8	1846.8	707.4	635.7	602.7	605.5	586.9	556.8	530.9	529.5
52.5°	4247.4	3692.1	1799.4	693.1	576.8	541.0	551.0	541.0	512.3	493.6	492.2
55°	4380.9	3763.8	1815.2	674.4	512.3	483.6	500.8	497.9	482.1	476.4	477.8
57.5°	4488.5	3818.4	1871.2	640.0	450.6	433.4	462.0	453.4	442.0	443.4	443.4
60°	4593.2	3888.7	1937.2	561.1	397.5	398.9	426.2	410.4	403.2	416.1	417.6
62.5°	4702.3	3964.7	1882.6	446.3	351.6	361.6	393.2	380.3	383.1	401.8	407.5
65°	4689.4	3957.6	1533.9	365.9	311.4	331.5	378.8	374.5	376.0	383.1	386.0
67.5°	4425.3	3705.0	1054.7	311.4	282.7	307.1	367.3	350.1	351.6	347.3	348.7
68°	4336.4	3616.0	929.8	302.8	276.9	301.3	361.6	345.8	347.3	343.0	341.5
70°	3851.4	3096.6	588.3	266.9	256.9	285.6	332.9	327.2	325.7	322.9	322.9
72.5°	2935.9	2285.9	309.9	231.0	233.9	261.2	297.0	308.5	301.3	302.8	311.4
75°	1944.3	1374.7	215.2	198.0	205.2	223.9	264.0	287.0	279.8	284.1	279.8
77.5°	1028.9	740.4	172.2	167.9	167.9	180.8	218.1	254.0	254.0	251.1	246.8
80°	337.2	261.2	137.8	132.0	134.9	142.1	175.1	208.1	212.4	206.6	203.8
82.5°	113.4	120.5	103.3	96.1	99.0	104.8	132.0	159.3	160.7	149.2	146.4
85°	70.3	80.4	64.6	63.1	63.1	64.6	80.4	87.5	80.4	71.7	74.6
87.5°	33.0	40.2	30.1	25.8	21.5	18.7	14.3	5.7	5.7	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)