

Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1209165

Luminaire Tested: UPW-SA2-090-827-U-T3R-HSS

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209165  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-827-U-T3R-HSS  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTI  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6743 lumens  
Efficiency: N/A  
Efficacy: 79.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

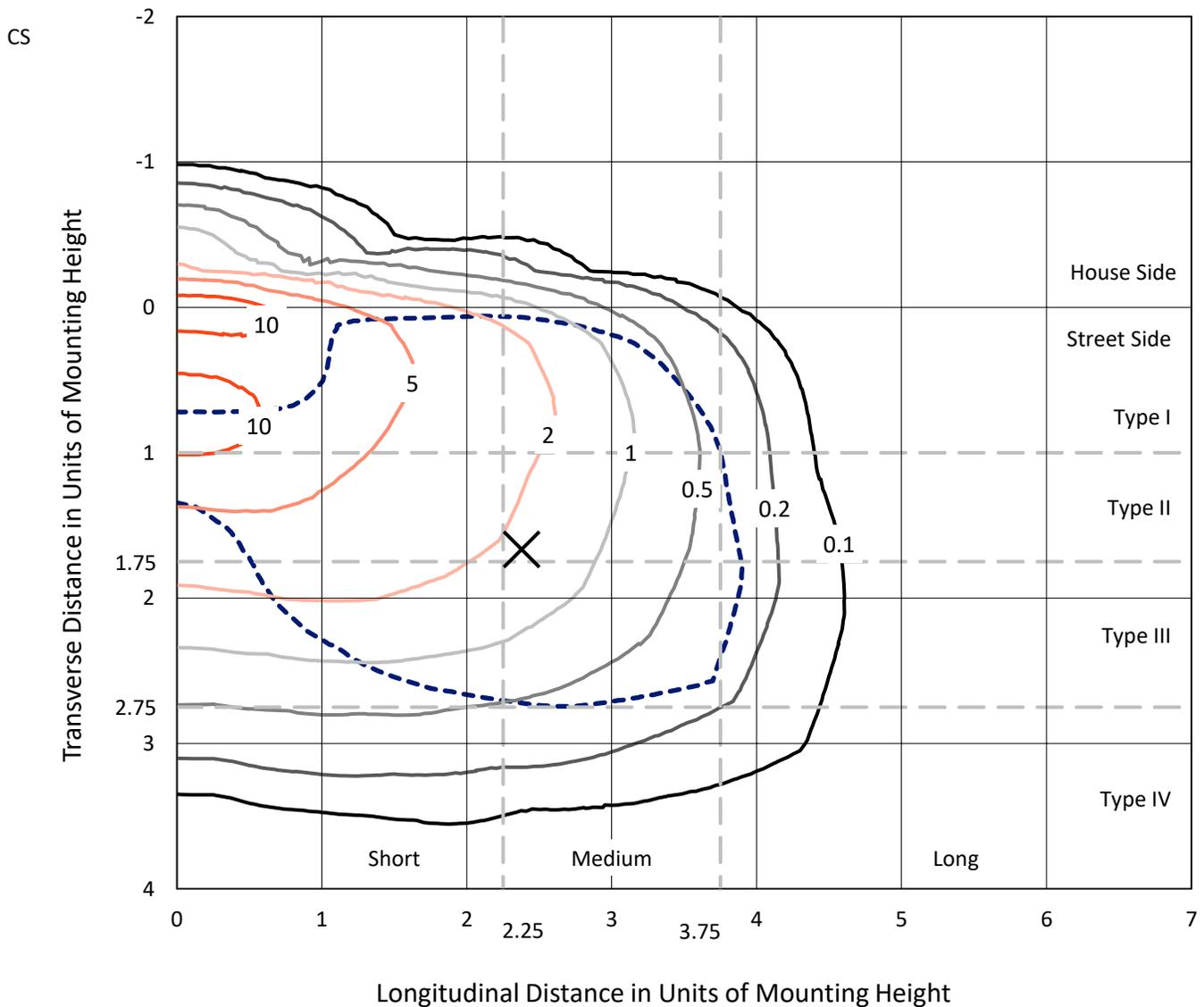
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

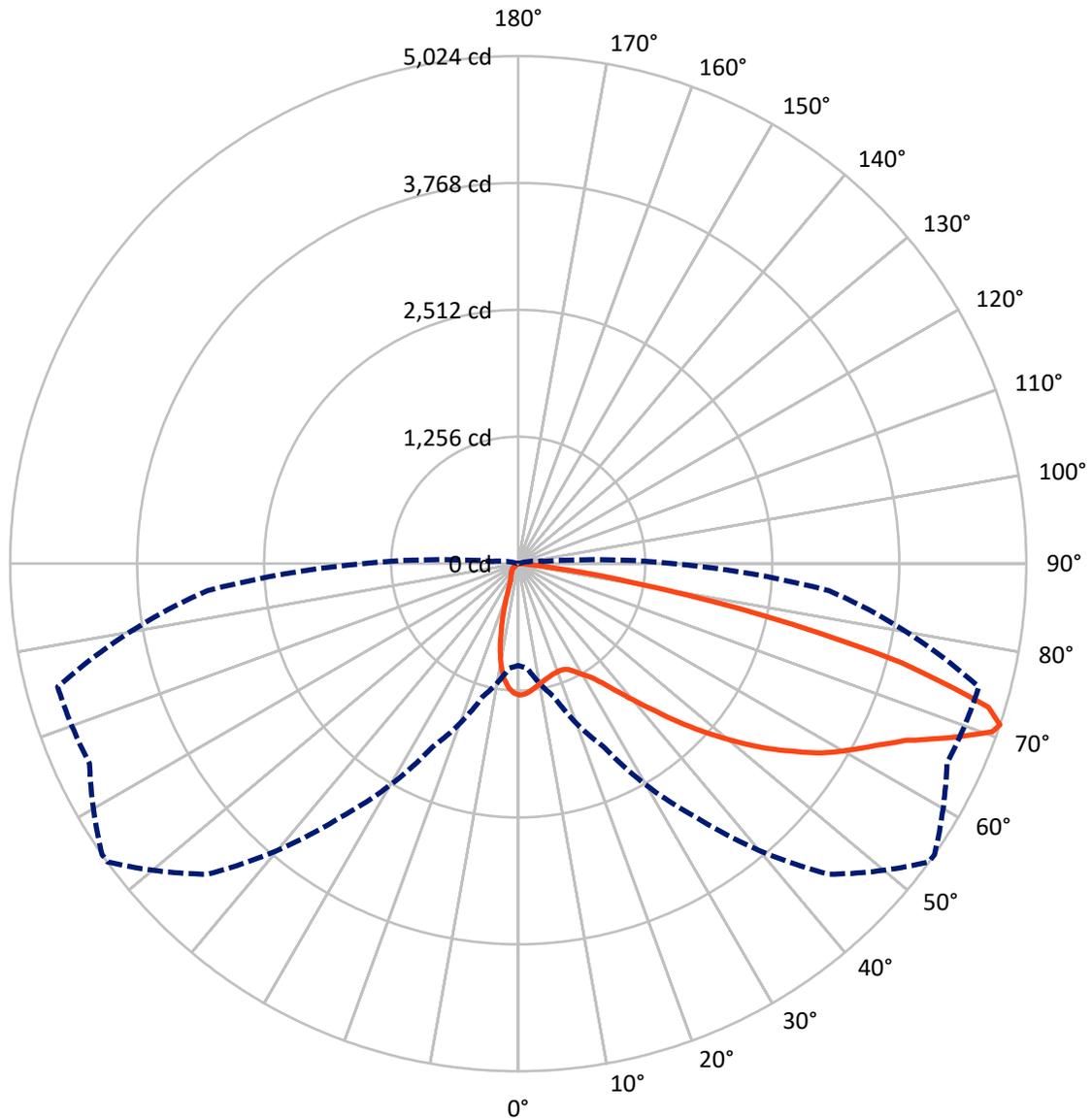
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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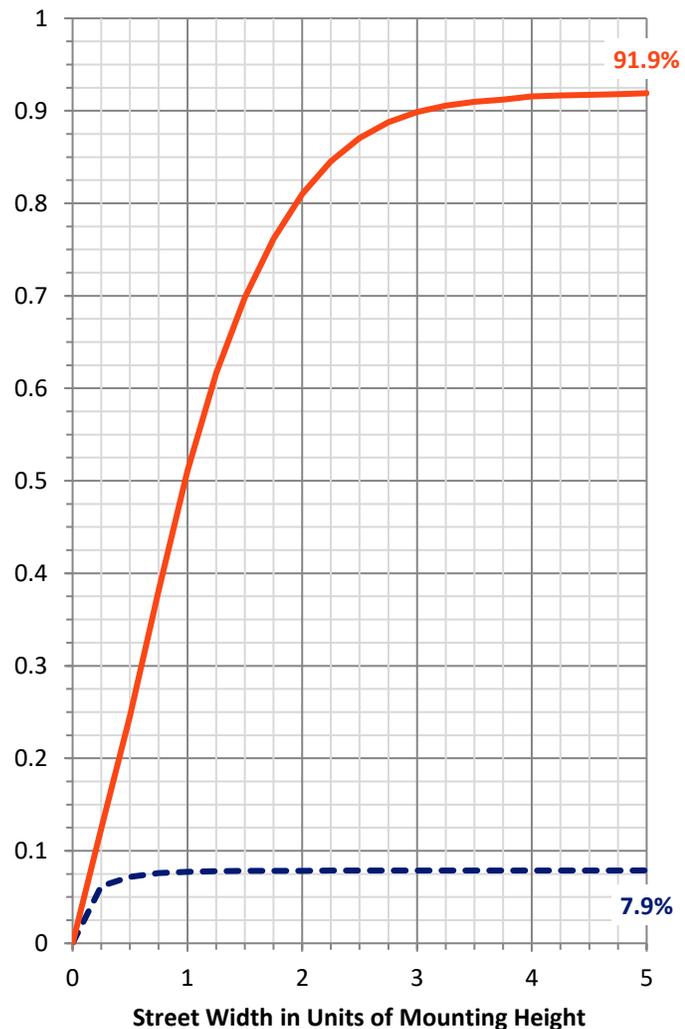
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	533.9	0.0	533.9
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	6209.1	0.0	6209.1
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	6743.0	0.0	6743.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.9	1.6
10°-20°	250.3	3.7
20°-30°	402.3	6.0
30°-40°	683.5	10.1
40°-50°	1060.8	15.7
50°-60°	1426.2	21.2
60°-70°	1744.8	25.9
70°-80°	1020.1	15.1
80°-90°	44.1	0.7
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°	6743.0	100.0
0°-180°	6743.0	100.0



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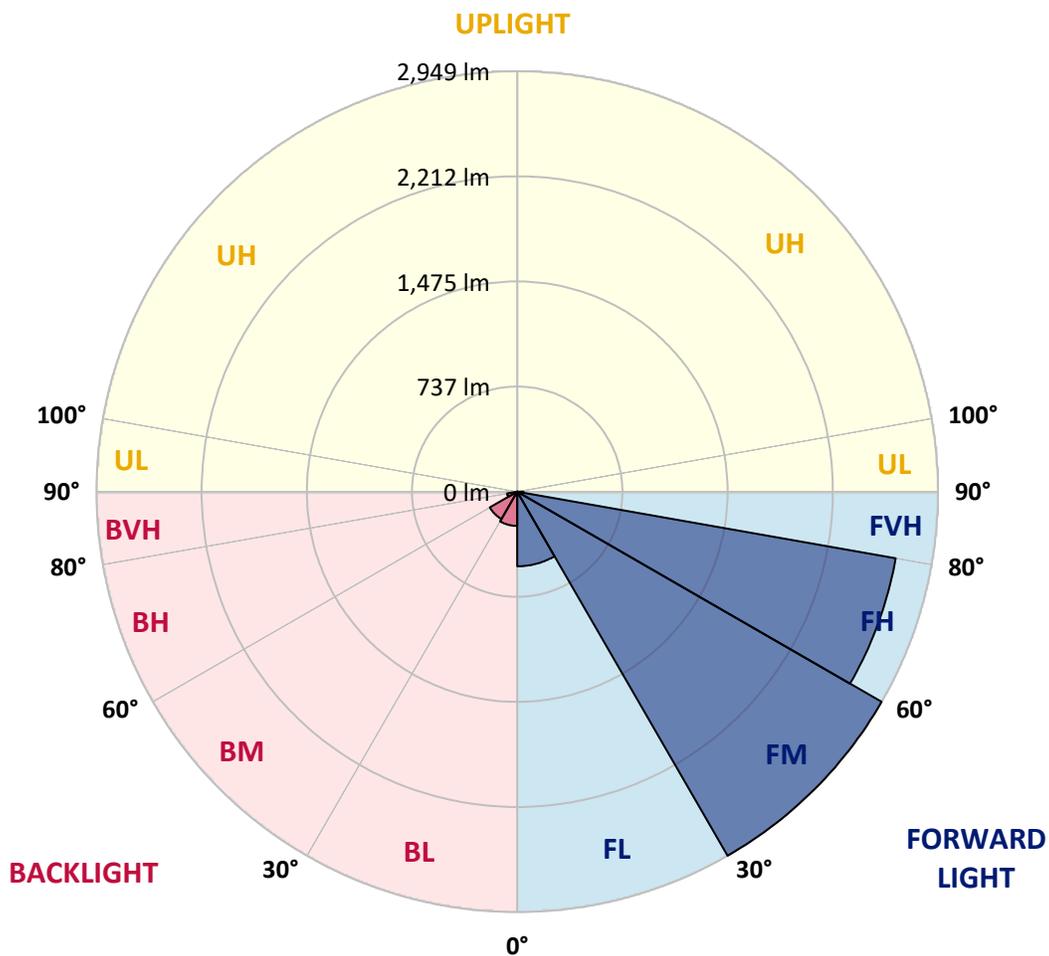
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	523.2	7.8			
FM	(30°-60°)	2949.2	43.7			
FH	(60°-80°)	2693.4	39.9			G2/5000
FVH	(80°-90°)	43.4	0.6			G1/100
BL	(0°-30°)	240.3	3.6	B1/500		
BM	(30°-60°)	221.3	3.3	B1/1000		
BH	(60°-80°)	71.5	1.1	B0/110		G0/110
BVH	(80°-90°)	0.7	0.0			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1300.4	1300.4	1300.4	1300.4	1300.4	1300.4	1300.4	1300.4	1300.4	1300.4	1300.4
2.5°	1262.3	1263.8	1269.2	1271.6	1277.4	1287.1	1291.9	1292.2	1300.1	1303.1	1305.6
5°	1172.9	1182.0	1191.1	1200.8	1218.4	1241.7	1264.7	1266.8	1292.2	1311.0	1321.0
7.5°	1096.0	1104.2	1115.1	1130.6	1155.4	1192.0	1230.5	1235.0	1283.2	1325.8	1348.2
10°	1017.0	1023.7	1039.4	1062.1	1096.3	1145.4	1197.2	1204.7	1275.0	1345.8	1385.2
12.5°	932.5	936.5	955.6	988.3	1038.5	1100.9	1169.0	1179.0	1269.8	1368.8	1428.8
15°	868.4	870.2	888.3	922.2	979.8	1060.9	1147.2	1159.3	1271.0	1396.4	1476.3
17.5°	852.0	852.9	862.6	885.9	936.8	1025.2	1130.0	1144.8	1274.7	1423.3	1524.2
20°	918.3	912.0	902.0	898.3	920.1	1003.7	1119.7	1136.3	1279.5	1447.3	1567.2
22.5°	1100.3	1081.5	1040.0	984.6	951.0	1005.2	1122.4	1139.0	1295.0	1476.6	1616.8
25°	1370.4	1344.3	1273.8	1164.8	1060.0	1048.8	1145.1	1162.0	1324.9	1511.7	1664.3
27.5°	1677.7	1651.9	1565.6	1410.0	1231.4	1135.1	1197.2	1212.9	1369.4	1542.9	1700.7
30°	1972.0	1964.7	1863.0	1686.1	1447.0	1275.0	1264.4	1277.7	1402.4	1561.7	1729.4
32.5°	2221.4	2209.9	2128.2	1956.2	1693.7	1443.0	1343.4	1347.3	1427.3	1585.9	1767.0
35°	2452.8	2438.5	2366.8	2204.2	1946.8	1648.3	1465.1	1459.4	1481.5	1634.7	1821.5
37.5°	2654.7	2667.7	2588.1	2433.4	2173.9	1861.8	1629.2	1612.0	1566.2	1714.0	1900.5
40°	2823.7	2823.7	2782.2	2653.2	2419.2	2082.5	1814.8	1792.1	1693.7	1836.3	2000.7
42.5°	2884.5	2897.5	2913.0	2840.0	2638.7	2312.0	2021.6	1998.0	1873.3	2009.8	2127.3
45°	2888.2	2908.7	2987.8	2987.5	2837.0	2540.0	2254.8	2243.6	2103.4	2232.7	2284.1
47.5°	2837.0	2862.7	2992.9	3066.8	2994.1	2752.2	2509.7	2495.8	2373.7	2505.8	2448.2
50°	2758.0	2786.4	2937.8	3098.0	3101.0	2936.9	2778.2	2757.4	2671.4	2817.9	2617.8
52.5°	2616.6	2671.7	2888.5	3105.2	3171.2	3096.5	3033.8	3024.7	3004.4	3118.6	2752.8
55°	2314.1	2375.3	2764.6	3107.7	3236.3	3237.9	3273.3	3275.7	3316.6	3399.5	2853.3
57.5°	2171.2	2205.7	2548.4	3119.2	3332.9	3398.3	3517.3	3536.1	3599.4	3666.3	2968.1
60°	2081.3	2122.1	2441.9	3103.4	3484.6	3608.8	3743.5	3749.8	3817.7	3941.5	3123.4
62.5°	2009.5	2049.8	2374.7	3042.9	3655.1	3861.9	3964.5	3965.1	4016.0	4269.4	3299.9
65°	1832.4	1866.3	2238.7	2974.7	3767.7	4112.3	4221.3	4217.3	4258.8	4615.2	3504.9
67.5°	1576.2	1602.3	1961.1	2716.5	3725.3	4340.0	4608.8	4595.8	4545.5	4914.0	3585.4
70°	1218.7	1228.0	1545.7	2263.8	3328.1	4427.5	4983.3	4976.7	4721.4	4860.4	3290.2
71°	1007.3	1038.2	1362.2	1998.0	3061.9	4346.6	5019.7	5023.6	4677.2	4714.5	3087.1
72.5°	585.0	611.3	987.3	1534.5	2599.6	4009.3	4831.4	4859.8	4470.8	4288.2	2636.9
75°	125.3	134.1	366.1	742.7	1430.0	2810.0	3813.4	3914.9	3643.9	2917.2	1589.3
77.5°	87.2	94.2	156.8	337.0	472.6	1388.5	2368.9	2483.3	2176.9	1096.3	508.7
80°	69.0	76.9	122.3	166.5	127.8	447.8	1109.7	1179.6	726.1	244.6	85.7
82.5°	38.5	45.7	95.4	89.9	49.0	85.1	310.6	351.2	145.3	49.4	20.3
85°	11.2	13.6	61.5	65.4	20.9	16.3	53.0	65.7	27.6	13.0	9.1
87.5°	0.0	0.0	29.7	25.1	6.1	2.4	4.8	5.4	5.4	5.4	6.1
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°	1300.4	1300.4	1300.4	1300.4	1300.4	1300.4	1300.4	1300.4	1300.4	1300.4	1300.4
2.5°	1305.6	1307.7	1300.1	1290.1	1279.5	1266.5	1252.9	1242.3	1242.0	1236.8	1231.7
5°	1321.6	1320.4	1299.5	1267.7	1230.2	1191.1	1153.9	1111.8	1097.9	1080.6	1074.8
7.5°	1351.3	1342.8	1298.6	1229.0	1146.6	1064.9	980.4	895.3	859.0	826.3	820.5
10°	1388.5	1372.5	1292.8	1170.8	1019.7	869.0	741.5	625.8	575.0	535.9	534.1
12.5°	1427.3	1402.7	1276.8	1083.0	853.5	641.6	494.7	380.9	338.5	311.3	313.7
15°	1467.8	1431.2	1242.3	964.6	664.3	435.4	304.0	237.1	220.1	213.2	215.0
17.5°	1509.3	1450.9	1194.1	822.0	477.5	281.0	210.4	191.7	191.7	193.2	193.8
20°	1545.4	1461.5	1123.3	662.2	323.7	204.7	184.1	181.4	182.9	185.3	185.6
22.5°	1581.1	1462.1	1030.9	500.2	226.5	179.2	175.3	174.1	175.0	177.7	178.0
25°	1610.1	1454.8	915.3	355.8	180.8	168.9	167.1	166.5	167.1	170.5	170.5
27.5°	1622.0	1428.5	774.2	250.1	162.0	157.4	156.8	157.4	158.4	160.8	161.1
30°	1623.2	1382.5	620.4	181.1	146.8	142.0	143.2	145.3	144.4	143.8	144.4
32.5°	1626.2	1329.2	470.5	149.0	134.1	126.6	125.0	125.0	121.4	119.3	118.1
35°	1636.2	1266.5	341.2	133.8	121.1	112.3	106.6	99.9	93.0	89.3	88.4
37.5°	1651.9	1200.8	244.3	123.8	109.6	99.6	88.7	76.9	66.9	64.2	64.2
40°	1680.7	1133.0	180.8	116.0	100.5	88.1	71.8	56.3	47.2	45.7	45.7
42.5°	1726.1	1061.5	144.1	109.0	92.6	76.3	54.8	40.9	34.2	33.3	33.0
45°	1773.3	982.8	126.0	102.3	84.2	62.7	40.6	30.3	26.3	25.4	25.4
47.5°	1820.6	898.9	117.2	96.0	76.0	48.7	30.3	23.9	22.1	22.1	22.4
50°	1860.5	811.4	110.8	89.0	65.4	36.9	23.9	20.3	19.7	20.9	21.2
52.5°	1870.5	725.4	102.9	80.2	52.4	28.2	19.7	17.9	17.9	17.9	17.9
55°	1864.5	658.8	92.6	69.3	38.8	22.4	17.0	15.7	15.4	15.4	15.4
57.5°	1885.1	619.5	74.2	53.9	27.9	18.2	14.8	13.9	13.3	13.0	13.0
60°	1926.5	593.7	53.0	38.8	20.9	15.1	12.7	11.8	10.9	10.3	10.3
62.5°	1981.7	571.3	39.4	28.8	16.0	12.1	10.6	9.7	8.5	7.9	7.9
65°	2024.0	531.4	30.0	21.5	12.1	9.7	8.2	7.9	6.1	5.4	5.1
67.5°	1959.2	443.6	24.2	15.7	9.1	7.6	6.4	6.1	3.6	3.0	3.0
70°	1680.4	308.8	19.4	11.5	6.7	6.1	5.1	3.9	2.7	2.4	2.4
71°	1523.9	258.0	17.6	9.7	5.8	5.8	4.8	3.3	2.4	2.1	2.1
72.5°	1265.9	183.2	14.8	7.6	5.1	6.1	5.1	3.0	2.4	2.1	1.8
75°	734.8	76.6	10.3	5.1	3.9	7.3	6.7	2.7	1.8	1.5	1.5
77.5°	221.0	28.2	5.8	3.3	3.0	6.4	7.6	2.4	0.9	0.3	0.3
80°	40.3	12.1	3.6	2.1	2.1	3.9	5.8	1.2	0.0	0.0	0.0
82.5°	14.2	6.1	2.1	1.2	0.9	1.8	2.7	0.0	0.0	0.0	0.0
85°	8.2	4.2	1.2	0.6	0.0	0.3	0.6	0.0	0.0	0.0	0.0
87.5°	5.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)