

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: P1209647

Luminaire Tested: UPW-SA2-130-827-U-T2R-HSS

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209647  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-130-827-U-T2R-HSS  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPT WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9608 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

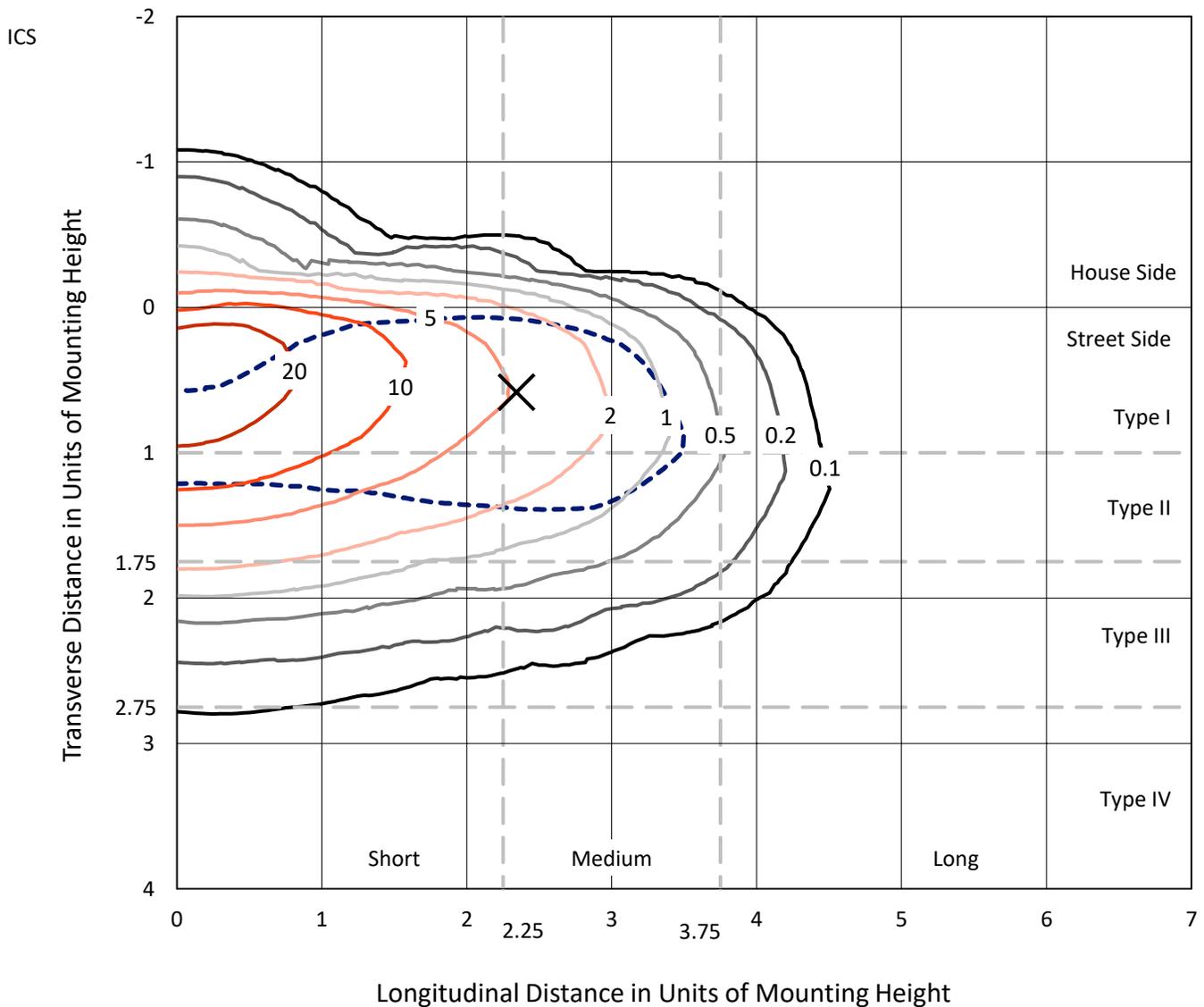
Input Watts (W): 128  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

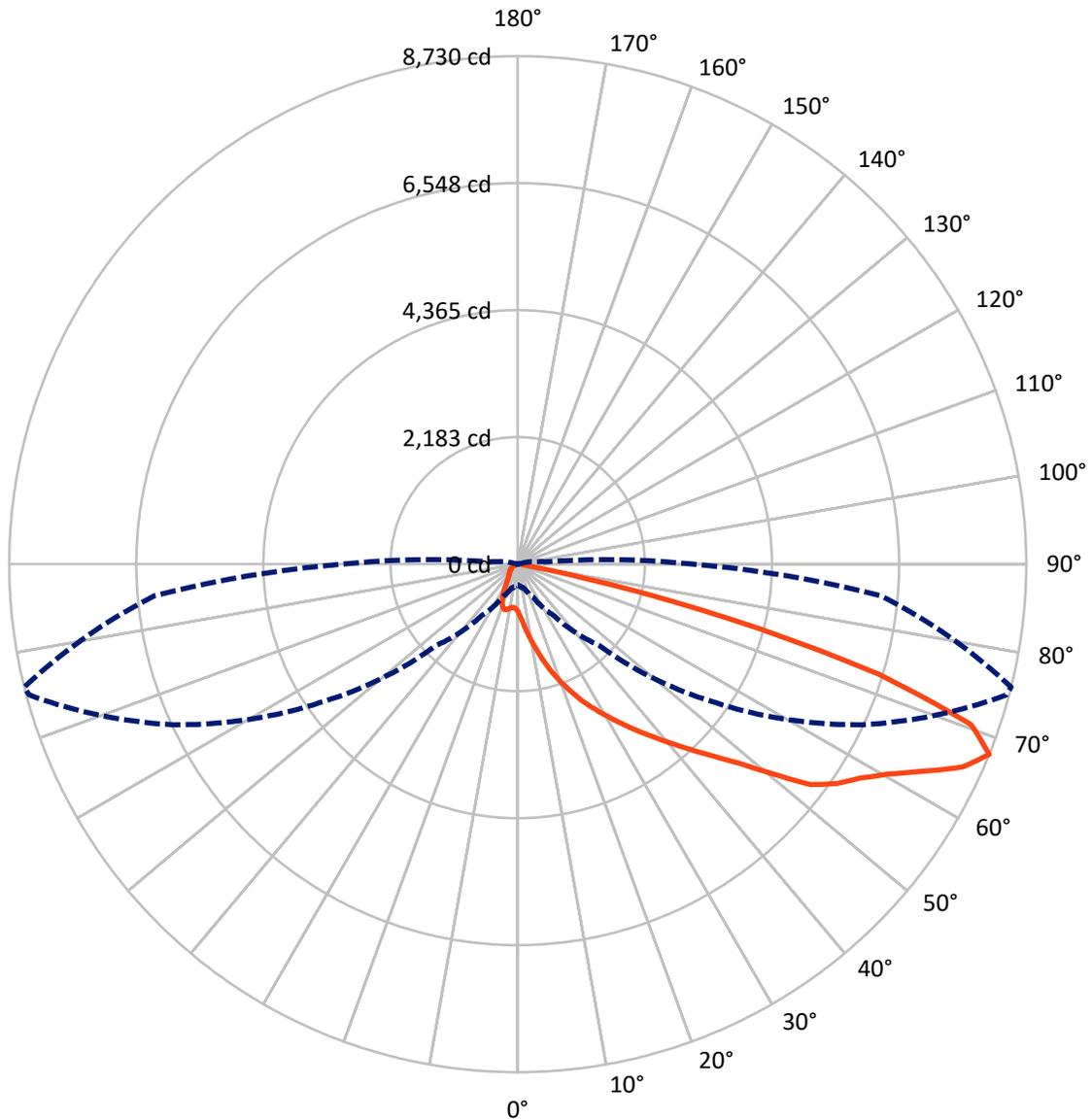


Based on 10 foot mounting height. Maximum calculated value = 28.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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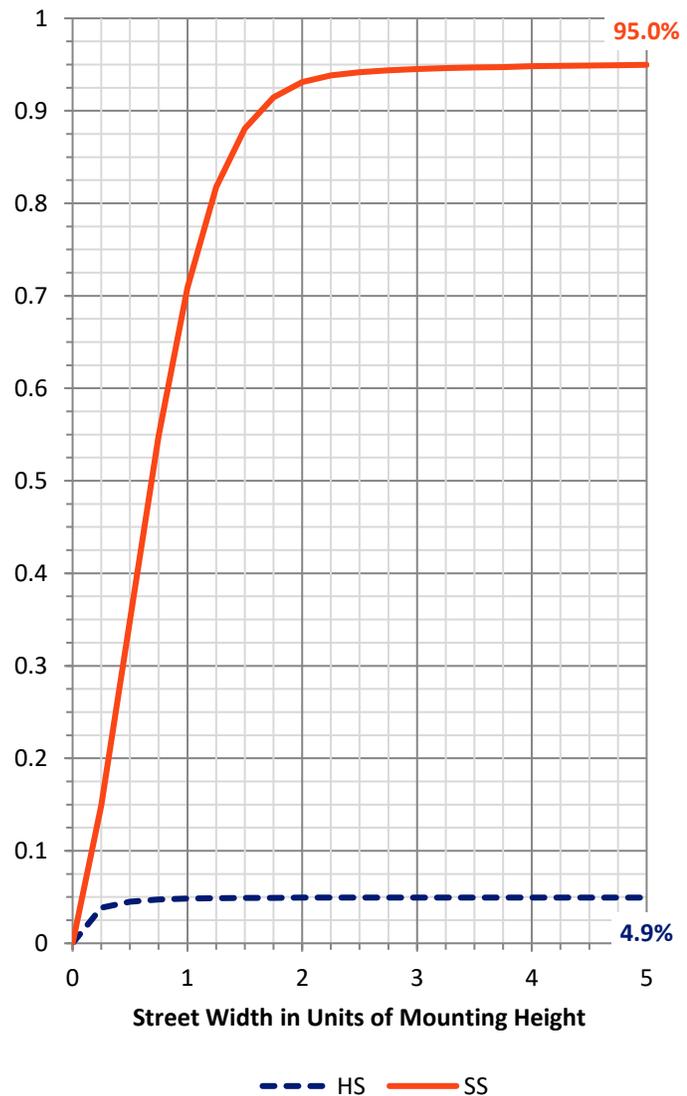
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	477.1	0.0	477.1
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	9130.9	0.0	9130.9
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	9608.0	0.0	9608.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.3	1.1
10°-20°	401.8	4.2
20°-30°	817.4	8.5
30°-40°	1418.8	14.8
40°-50°	2004.6	20.9
50°-60°	2273.3	23.7
60°-70°	1885.5	19.6
70°-80°	683.0	7.1
80°-90°	22.1	0.2
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°	9608.0	100.0
0°-180°	9608.0	100.0



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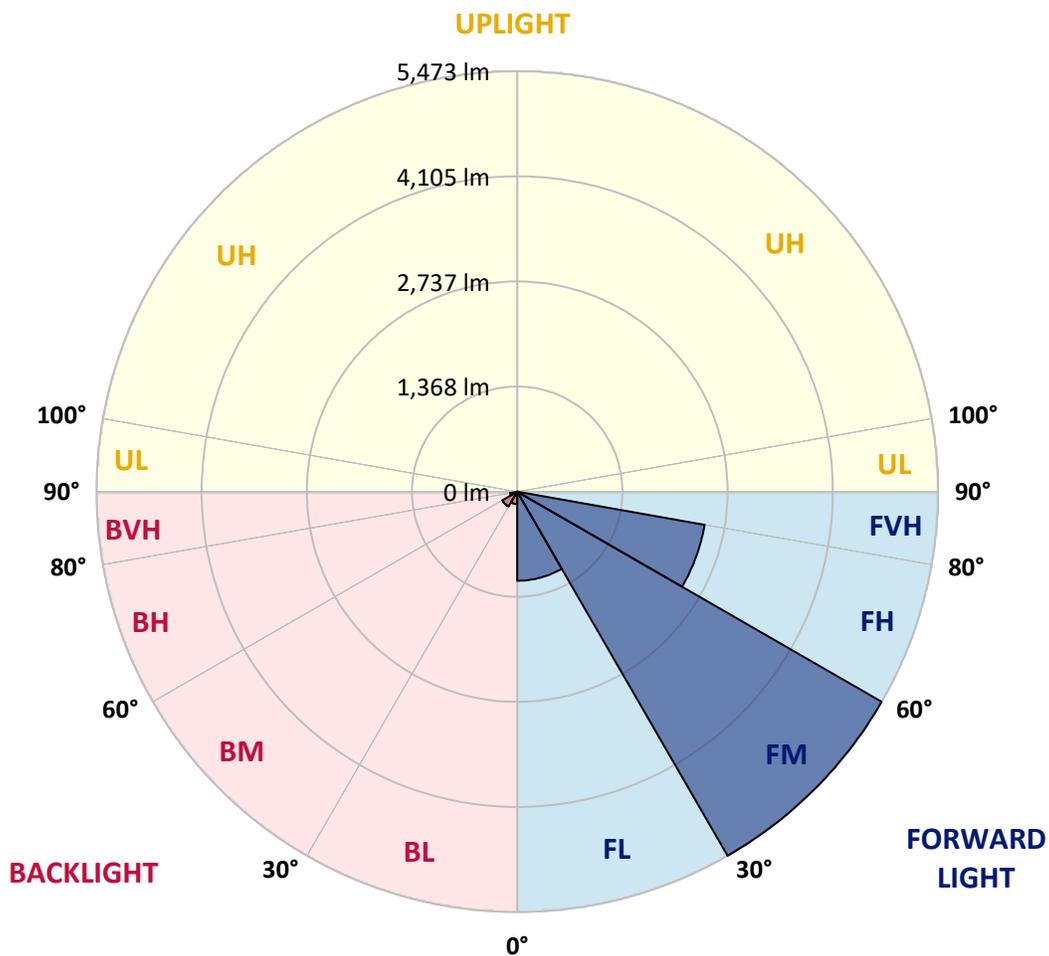
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1159.7	12.1			
FM	(30°-60°)	5473.5	57.0			
FH	(60°-80°)	2476.3	25.8			G2/5000
FVH	(80°-90°)	21.5	0.2			G1/100
BL	(0°-30°)	160.9	1.7	B1/500		
BM	(30°-60°)	223.3	2.3	B1/1000		
BH	(60°-80°)	92.2	1.0	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	815.0	815.0	815.0	815.0	815.0	815.0	815.0	815.0	815.0	815.0	815.0
2.5°	1216.7	1189.3	1195.6	1177.9	1145.9	1080.3	1024.3	971.2	909.3	907.2	856.3
5°	1640.6	1617.4	1614.5	1578.7	1520.6	1409.1	1300.4	1176.7	1038.6	1028.5	920.3
7.5°	2025.4	2006.9	2000.1	1957.6	1849.4	1740.8	1599.3	1417.5	1201.5	1183.0	1006.6
10°	2320.9	2312.1	2313.8	2283.4	2190.8	2089.8	1904.1	1672.2	1386.3	1357.7	1110.2
12.5°	2544.9	2547.0	2562.1	2543.6	2491.8	2416.9	2218.6	1943.7	1590.9	1551.8	1228.4
15°	2709.5	2720.0	2747.8	2771.0	2767.2	2702.3	2520.5	2219.5	1808.2	1764.8	1360.2
17.5°	2816.0	2827.8	2868.2	2919.6	2966.7	2951.6	2811.8	2485.5	2027.9	1977.8	1501.3
20°	2909.5	2923.4	2966.7	3034.5	3122.5	3141.4	3049.7	2743.6	2247.2	2186.2	1646.9
22.5°	3112.0	3111.5	3138.1	3177.6	3261.4	3310.2	3252.1	2983.1	2464.1	2400.5	1795.5
25°	3478.2	3464.3	3455.1	3423.9	3442.4	3472.7	3440.3	3207.1	2682.1	2617.7	1946.2
27.5°	3913.5	3921.9	3847.0	3763.2	3698.4	3667.2	3614.2	3414.7	2891.8	2821.1	2093.6
30°	4372.8	4375.3	4286.9	4180.0	4037.3	3919.0	3827.2	3612.9	3107.3	3030.3	2236.7
32.5°	4787.1	4770.7	4683.1	4537.4	4357.2	4224.2	4033.5	3834.4	3335.5	3261.0	2395.9
35°	5115.4	5096.1	4989.6	4857.0	4670.0	4536.2	4306.7	4055.4	3575.5	3502.6	2555.4
37.5°	5355.4	5332.7	5223.2	5086.8	4925.6	4847.7	4623.7	4295.8	3837.3	3759.0	2723.4
40°	5438.8	5419.0	5350.4	5250.6	5120.9	5103.2	4960.1	4572.4	4122.3	4039.0	2913.7
42.5°	5389.1	5369.7	5345.3	5311.6	5257.7	5274.6	5277.5	4887.7	4438.9	4356.8	3123.7
45°	5192.1	5174.8	5200.1	5249.3	5316.3	5399.6	5567.2	5226.6	4792.6	4705.0	3366.7
47.5°	4902.0	4889.4	4959.3	5082.2	5278.0	5507.8	5832.0	5582.7	5189.5	5108.3	3669.8
50°	4489.4	4487.3	4627.1	4851.5	5152.5	5560.0	6105.6	5987.7	5741.0	5655.6	4091.2
52.5°	3847.0	3851.2	4126.1	4485.2	4932.3	5524.7	6281.6	6508.1	6382.6	6293.8	4456.2
55°	3235.3	3260.6	3455.5	3973.3	4594.7	5393.3	6342.2	6751.0	6736.7	6652.5	4659.1
57.5°	2636.2	2682.1	2869.9	3353.6	4101.7	5090.6	6309.0	6856.2	7000.2	6935.8	4926.8
60°	1987.1	2008.1	2224.5	2676.7	3469.0	4538.3	6067.7	6913.5	7360.6	7316.0	5315.4
62.5°	1264.2	1316.9	1508.8	1945.0	2701.1	3771.2	5661.1	6912.7	7811.5	7835.9	5816.8
65°	666.0	727.5	829.4	1205.3	1856.1	2914.5	5049.4	6847.8	8364.7	8398.8	6208.8
67.5°	359.1	376.8	430.7	625.6	1076.5	1974.4	4150.5	6527.9	8685.0	8730.1	6263.5
70°	262.7	272.4	292.6	346.1	541.8	1146.8	3028.6	5802.5	8272.0	8255.2	5565.1
72.5°	201.7	216.8	232.0	253.4	311.5	612.1	1885.6	4543.7	6600.3	6489.1	4159.8
75°	159.1	161.7	183.1	202.5	233.6	348.6	837.3	2646.3	4028.5	3765.3	2157.2
77.5°	127.1	128.8	141.5	158.3	187.8	229.0	259.3	1041.1	1286.1	1147.6	468.1
80°	75.4	79.6	105.2	122.1	155.8	144.4	94.7	226.1	200.8	181.9	78.7
82.5°	42.1	45.5	59.4	96.4	108.6	69.0	47.2	61.0	47.2	45.9	22.3
85°	0.0	2.1	38.3	59.8	44.2	15.2	19.8	20.2	13.9	13.1	8.8
87.5°	0.0	0.0	11.8	11.4	1.7	2.5	4.6	6.7	5.5	5.5	4.6
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°	815.0	815.0	815.0	815.0	815.0	815.0	815.0	815.0	815.0	815.0	815.0
2.5°	831.0	808.3	765.4	723.3	687.9	658.8	632.7	622.2	613.8	612.5	605.8
5°	868.1	822.2	740.1	672.7	627.7	595.7	568.3	551.5	538.4	533.4	528.8
7.5°	924.1	854.6	736.7	659.3	605.4	551.5	501.0	446.2	412.1	399.1	391.5
10°	992.3	897.6	749.4	655.5	561.2	447.5	363.7	294.3	266.1	256.8	254.3
12.5°	1071.8	951.0	771.3	631.9	466.9	317.8	250.9	227.3	221.0	218.1	218.1
15°	1163.2	1009.5	786.8	563.7	345.2	240.4	217.2	206.3	199.5	195.8	196.2
17.5°	1256.7	1066.8	779.3	464.8	254.7	213.9	196.6	184.8	175.6	171.8	170.9
20°	1351.0	1119.8	737.2	346.1	215.5	194.1	174.7	161.7	152.4	148.6	147.8
22.5°	1448.6	1164.9	663.1	253.9	193.7	172.2	153.2	140.2	131.3	128.0	126.3
25°	1543.8	1201.5	559.5	205.4	173.0	151.6	133.5	121.2	113.2	109.9	109.5
27.5°	1632.6	1224.7	439.5	181.4	154.9	133.0	116.6	105.7	98.9	96.4	96.0
30°	1712.6	1226.8	325.0	163.8	138.9	117.0	101.9	92.2	86.3	83.8	82.9
32.5°	1793.4	1209.1	236.6	147.8	124.2	103.1	88.4	80.8	76.6	74.5	74.5
35°	1869.6	1168.2	184.4	133.9	109.9	89.7	77.9	72.4	69.9	67.8	67.8
37.5°	1944.1	1109.7	156.6	121.7	96.4	78.3	68.6	65.3	63.1	61.0	61.0
40°	2019.9	1036.1	142.3	110.3	85.5	69.5	61.0	58.1	56.0	54.3	53.9
42.5°	2112.9	951.0	133.0	99.8	75.8	61.5	53.9	50.5	48.8	47.2	46.3
45°	2220.7	877.8	125.5	89.2	67.8	54.7	46.7	43.4	40.8	38.7	38.3
47.5°	2376.1	824.7	115.4	77.9	60.2	47.6	40.4	36.6	32.8	30.7	30.3
50°	2574.4	780.9	102.3	67.8	52.6	40.4	33.7	29.0	25.7	23.6	23.6
52.5°	2672.9	723.7	90.5	58.9	44.2	34.1	27.4	21.9	20.2	18.1	18.1
55°	2712.4	679.9	78.7	50.1	36.6	28.2	21.5	16.8	15.6	14.3	13.9
57.5°	2823.6	667.3	68.6	42.5	30.3	22.3	16.4	12.6	11.8	10.1	10.1
60°	3002.5	673.6	59.4	36.2	24.4	17.3	12.2	9.7	8.8	7.2	7.2
62.5°	3195.7	665.6	50.1	31.2	18.9	12.6	8.4	7.2	7.2	4.2	3.8
65°	3232.8	592.8	42.9	25.7	14.7	9.3	5.5	4.6	6.3	0.8	0.0
67.5°	3000.4	459.7	37.0	19.8	10.9	7.2	4.2	2.1	5.5	0.0	0.0
70°	2399.2	292.2	29.9	14.3	8.4	5.9	3.4	0.8	4.2	0.0	0.0
72.5°	1696.6	169.7	23.6	10.1	7.2	4.6	2.5	0.0	2.5	0.0	0.0
75°	858.0	90.5	14.7	7.6	5.5	3.4	1.7	0.0	0.4	0.0	0.0
77.5°	185.7	42.1	9.3	5.5	3.8	2.1	0.8	0.0	0.0	0.0	0.0
80°	40.4	18.5	5.9	3.4	2.1	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	14.7	9.7	2.9	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.0	5.1	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	1.7	0.4	0.4	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)