

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: P1209404

Luminaire Tested: UPW-SA2-110-827-U-T2R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209404
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-SA2-110-827-U-T2R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 1050mA 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: 8759 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

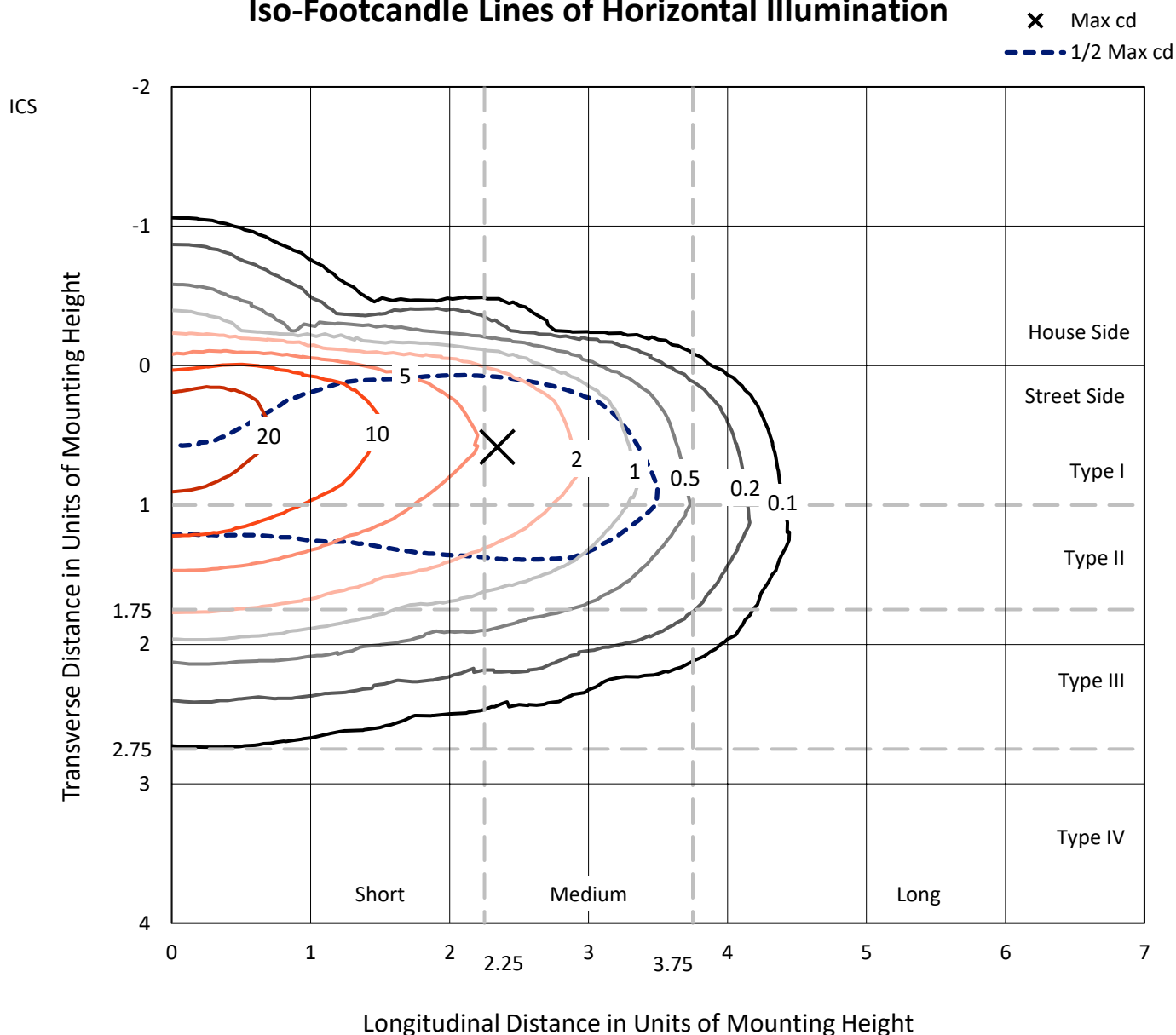
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

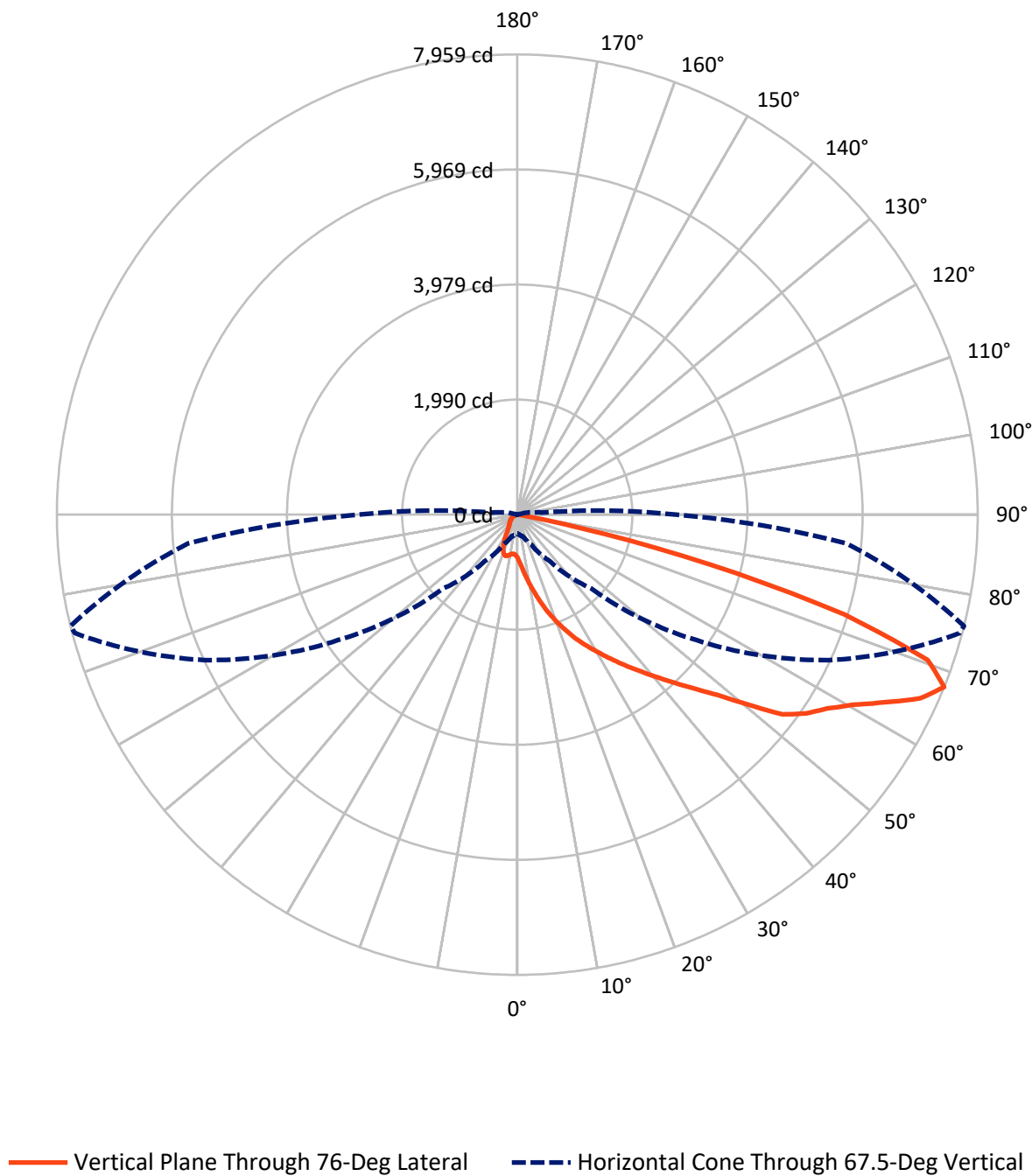


Based on 10 foot mounting height. Maximum calculated value = 26.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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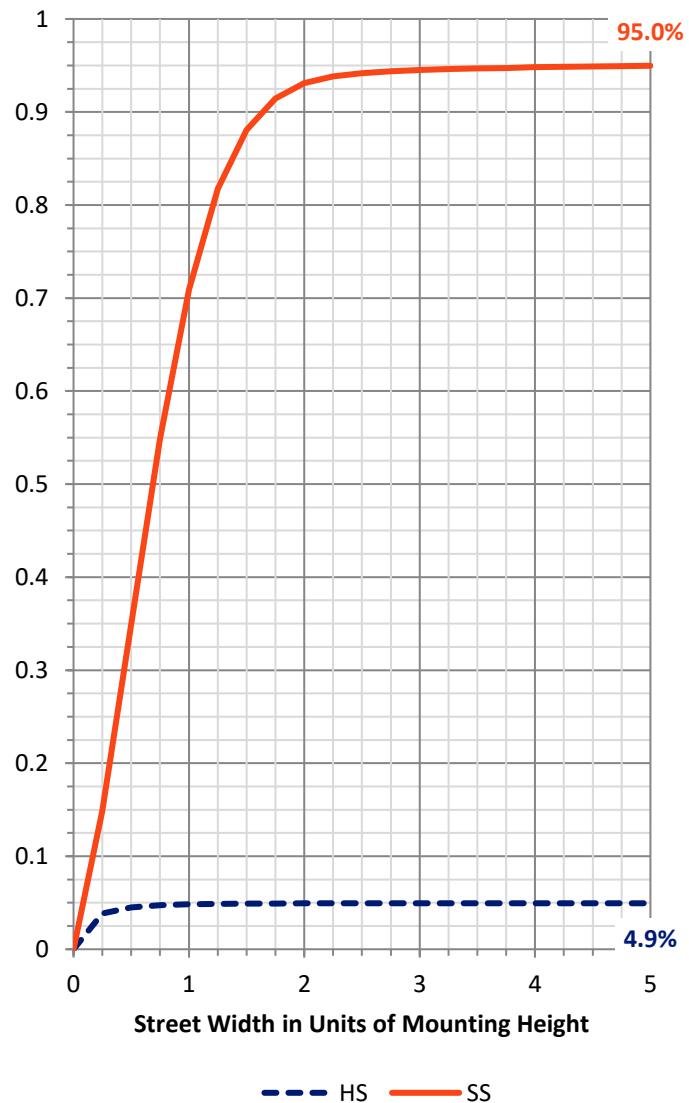
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	434.9	0.0	434.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	8324.0	0.0	8324.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	8759.0	0.0	8759.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	1.1
10°-20°	366.3	4.2
20°-30°	745.2	8.5
30°-40°	1293.5	14.8
40°-50°	1827.5	20.9
50°-60°	2072.5	23.7
60°-70°	1718.9	19.6
70°-80°	622.6	7.1
80°-90°	20.2	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°	8759.0	100.0
0°-180°	8759.0	100.0

Coefficient of Utilization



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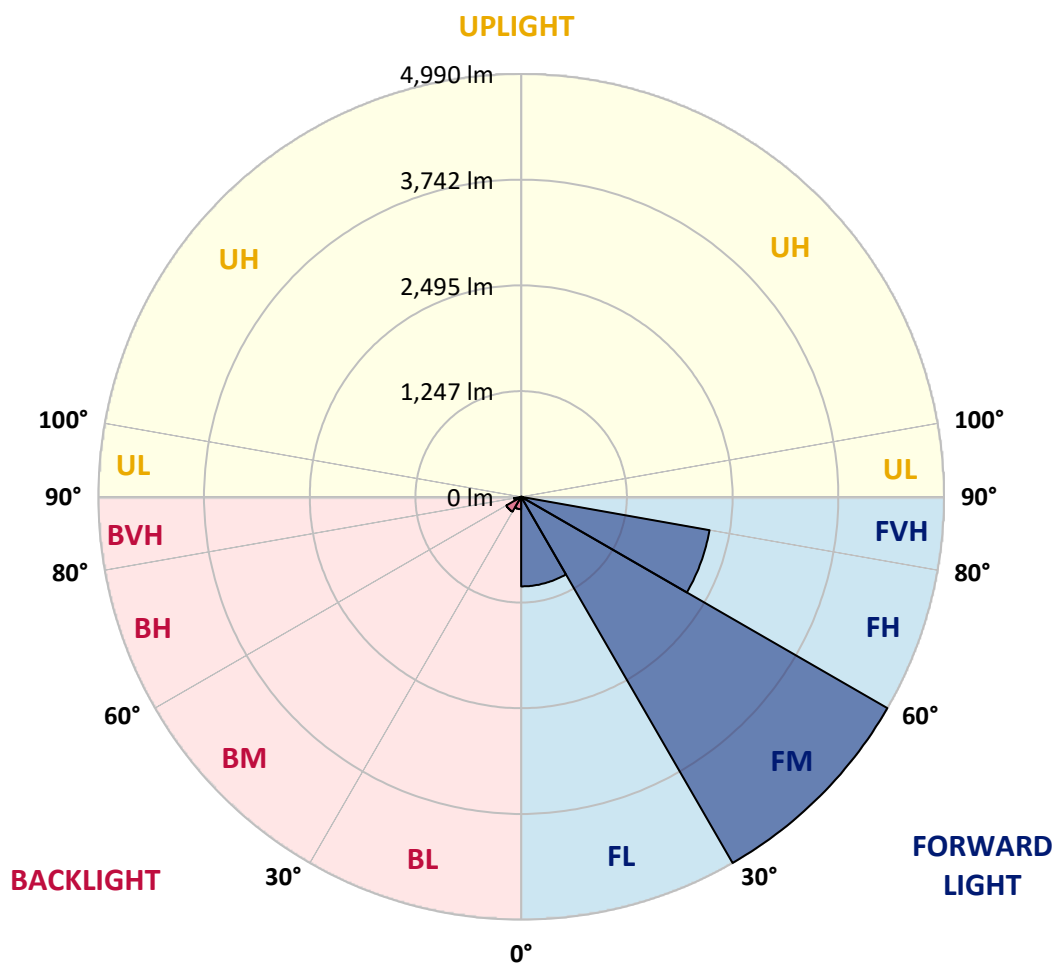
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1057.2	12.1			
FM	(30°-60°)	4989.8	57.0			
FH	(60°-80°)	2257.5	25.8			G2/5000
FVH	(80°-90°)	19.5	0.2			G1/100
BL	(0°-30°)	146.7	1.7	B1/500		
BM	(30°-60°)	203.6	2.3	B0/220		
BH	(60°-80°)	84.1	1.0	B0/110		G0/110
BVH	(80°-90°)	0.6	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°	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
2.5°	1109.2	1084.2	1090.0	1073.8	1044.7	984.8	933.8	885.4	829.0	827.1	780.6
5°	1495.6	1474.5	1471.8	1439.2	1386.2	1284.5	1185.5	1072.7	946.8	937.6	839.0
7.5°	1846.4	1829.5	1823.4	1784.6	1686.0	1587.0	1458.0	1292.2	1095.3	1078.4	917.6
10°	2115.8	2107.8	2109.3	2081.7	1997.2	1905.1	1735.9	1524.4	1263.8	1237.7	1012.1
12.5°	2320.0	2321.9	2335.7	2318.9	2271.7	2203.3	2022.6	1772.0	1450.3	1414.6	1119.9
15°	2470.1	2479.7	2505.0	2526.1	2522.6	2463.5	2297.7	2023.3	1648.4	1608.8	1240.0
17.5°	2567.2	2577.9	2614.8	2661.6	2704.6	2690.7	2563.3	2265.9	1848.7	1803.0	1368.6
20°	2652.4	2665.0	2704.6	2766.4	2846.6	2863.8	2780.2	2501.2	2048.7	1993.0	1501.4
22.5°	2837.0	2836.6	2860.8	2896.8	2973.2	3017.7	2964.8	2719.5	2246.3	2188.4	1636.9
25°	3170.9	3158.2	3149.8	3121.4	3138.2	3165.9	3136.3	2923.7	2445.1	2386.4	1774.3
27.5°	3567.7	3575.4	3507.1	3430.7	3371.6	3343.2	3294.8	3112.9	2636.3	2571.8	1908.6
30°	3986.4	3988.7	3908.1	3810.6	3680.5	3572.7	3489.0	3293.7	2832.8	2762.5	2039.1
32.5°	4364.1	4349.1	4269.3	4136.5	3972.2	3850.9	3677.1	3495.6	3040.8	2972.8	2184.1
35°	4663.4	4645.8	4548.7	4427.8	4257.4	4135.3	3926.2	3697.0	3259.5	3193.1	2329.6
37.5°	4882.2	4861.5	4761.7	4637.3	4490.3	4419.3	4215.2	3916.2	3498.2	3426.9	2482.7
40°	4958.2	4940.1	4877.6	4786.6	4668.4	4652.3	4521.8	4168.3	3758.1	3682.1	2656.2
42.5°	4912.9	4895.2	4873.0	4842.3	4793.1	4808.5	4811.2	4455.8	4046.7	3971.8	2847.7
45°	4733.3	4717.5	4740.6	4785.5	4846.5	4922.5	5075.2	4764.7	4369.1	4289.2	3069.2
47.5°	4468.8	4457.3	4521.0	4633.1	4811.6	5021.1	5316.6	5089.4	4731.0	4656.9	3345.5
50°	4092.7	4090.8	4218.2	4422.8	4697.2	5068.7	5566.1	5458.6	5233.7	5155.8	3729.7
52.5°	3507.1	3510.9	3761.5	4088.9	4496.5	5036.5	5726.5	5933.0	5818.6	5737.7	4062.4
55°	2949.4	2972.5	3150.1	3622.2	4188.7	4916.7	5781.8	6154.5	6141.4	6064.6	4247.4
57.5°	2403.3	2445.1	2616.3	3057.3	3739.3	4640.8	5751.5	6250.4	6381.7	6322.9	4491.5
60°	1811.5	1830.7	2027.9	2440.1	3162.4	4137.3	5531.6	6302.6	6710.2	6669.5	4845.7
62.5°	1152.5	1200.5	1375.5	1773.1	2462.4	3438.0	5160.8	6301.8	7121.2	7143.5	5302.8
65°	607.2	663.2	756.1	1098.8	1692.1	2657.0	4603.2	6242.7	7625.5	7656.6	5660.1
67.5°	327.4	343.5	392.6	570.3	981.4	1800.0	3783.8	5951.0	7917.6	7958.6	5710.0
70°	239.5	248.3	266.7	315.5	493.9	1045.4	2761.0	5289.8	7541.1	7525.7	5073.3
72.5°	183.8	197.7	211.5	231.0	284.0	558.0	1719.0	4142.2	6017.1	5915.7	3792.2
75°	145.1	147.4	166.9	184.6	213.0	317.8	763.4	2412.5	3672.5	3432.6	1966.5
77.5°	115.9	117.4	129.0	144.3	171.2	208.8	236.4	949.1	1172.5	1046.2	426.8
80°	68.7	72.5	95.9	111.3	142.0	131.6	86.4	206.1	183.1	165.8	71.8
82.5°	38.4	41.4	54.1	87.9	99.0	62.9	43.0	55.6	43.0	41.8	20.3
85°	0.0	1.9	34.9	54.5	40.3	13.8	18.0	18.4	12.7	11.9	8.1
87.5°	0.0	0.0	10.7	10.4	1.5	2.3	4.2	6.1	5.0	5.0	4.2
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°	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
2.5°	757.6	736.9	697.7	659.4	627.1	600.6	576.8	567.2	559.6	558.4	552.3
5°	791.4	749.5	674.7	613.3	572.2	543.1	518.1	502.8	490.9	486.3	482.0
7.5°	842.4	779.1	671.6	601.0	551.9	502.8	456.7	406.8	375.7	363.8	356.9
10°	904.6	818.2	683.1	597.6	511.6	408.0	331.6	268.3	242.6	234.1	231.8
12.5°	977.1	867.0	703.1	576.1	425.6	289.8	228.7	207.2	201.5	198.8	198.8
15°	1060.4	920.3	717.3	513.9	314.7	219.1	198.0	188.1	181.9	178.5	178.8
17.5°	1145.6	972.5	710.4	423.7	232.2	195.0	179.2	168.5	160.0	156.6	155.8
20°	1231.6	1020.9	672.0	315.5	196.5	176.9	159.3	147.4	138.9	135.5	134.7
22.5°	1320.6	1061.9	604.5	231.4	176.5	157.0	139.7	127.8	119.7	116.7	115.1
25°	1407.4	1095.3	510.1	187.3	157.7	138.2	121.7	110.5	103.2	100.2	99.8
27.5°	1488.3	1116.4	400.7	165.4	141.2	121.3	106.3	96.3	90.2	87.9	87.5
30°	1561.3	1118.4	296.3	149.3	126.7	106.7	92.9	84.0	78.7	76.4	75.6
32.5°	1634.9	1102.2	215.7	134.7	113.2	94.0	80.6	73.7	69.8	67.9	67.9
35°	1704.4	1065.0	168.1	122.0	100.2	81.7	71.0	66.0	63.7	61.8	61.8
37.5°	1772.3	1011.7	142.8	110.9	87.9	71.4	62.6	59.5	57.6	55.6	55.6
40°	1841.4	944.5	129.7	100.6	77.9	63.3	55.6	53.0	51.0	49.5	49.1
42.5°	1926.2	867.0	121.3	91.0	69.1	56.0	49.1	46.1	44.5	43.0	42.2
45°	2024.5	800.2	114.4	81.4	61.8	49.9	42.6	39.5	37.2	35.3	34.9
47.5°	2166.1	751.8	105.2	71.0	54.9	43.4	36.8	33.4	29.9	28.0	27.6
50°	2346.9	711.9	93.3	61.8	48.0	36.8	30.7	26.5	23.4	21.5	21.5
52.5°	2436.7	659.7	82.5	53.7	40.3	31.1	24.9	20.0	18.4	16.5	16.5
55°	2472.8	619.8	71.8	45.7	33.4	25.7	19.6	15.4	14.2	13.0	12.7
57.5°	2574.1	608.3	62.6	38.8	27.6	20.3	15.0	11.5	10.7	9.2	9.2
60°	2737.2	614.1	54.1	33.0	22.3	15.7	11.1	8.8	8.1	6.5	6.5
62.5°	2913.3	606.8	45.7	28.4	17.3	11.5	7.7	6.5	6.5	3.8	3.5
65°	2947.1	540.4	39.1	23.4	13.4	8.4	5.0	4.2	5.8	0.8	0.0
67.5°	2735.3	419.1	33.8	18.0	10.0	6.5	3.8	1.9	5.0	0.0	0.0
70°	2187.2	266.4	27.2	13.0	7.7	5.4	3.1	0.8	3.8	0.0	0.0
72.5°	1546.7	154.7	21.5	9.2	6.5	4.2	2.3	0.0	2.3	0.0	0.0
75°	782.2	82.5	13.4	6.9	5.0	3.1	1.5	0.0	0.4	0.0	0.0
77.5°	169.3	38.4	8.4	5.0	3.5	1.9	0.8	0.0	0.0	0.0	0.0
80°	36.8	16.9	5.4	3.1	1.9	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	13.4	8.8	2.7	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.3	4.6	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	1.5	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)