

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: P1209270

Luminaire Tested: UPW-SA2-110-730-U-T2R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-730-U-T2R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

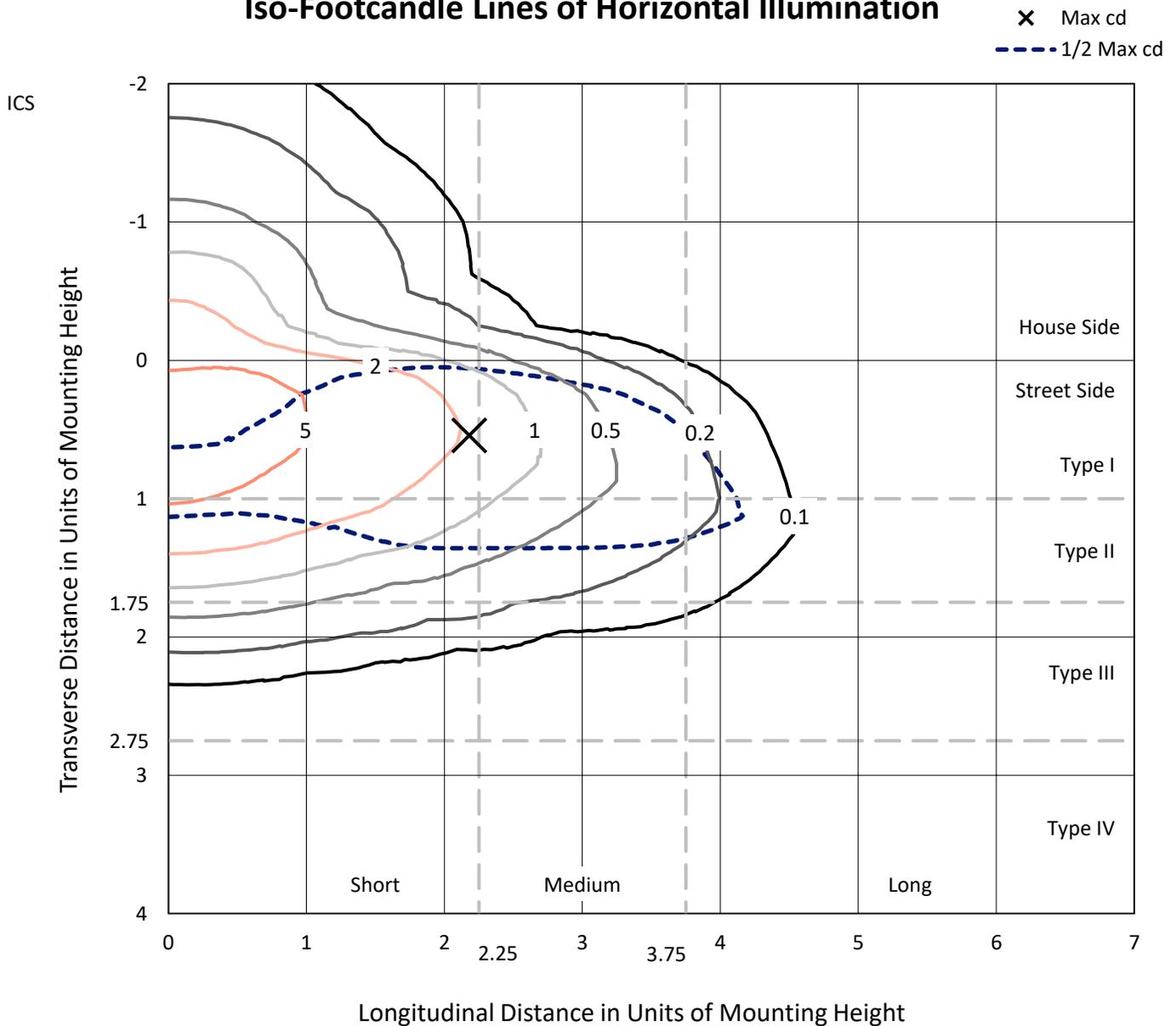
Lumens per Lamp: N/A
Luminaire Lumens: 14005 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 113
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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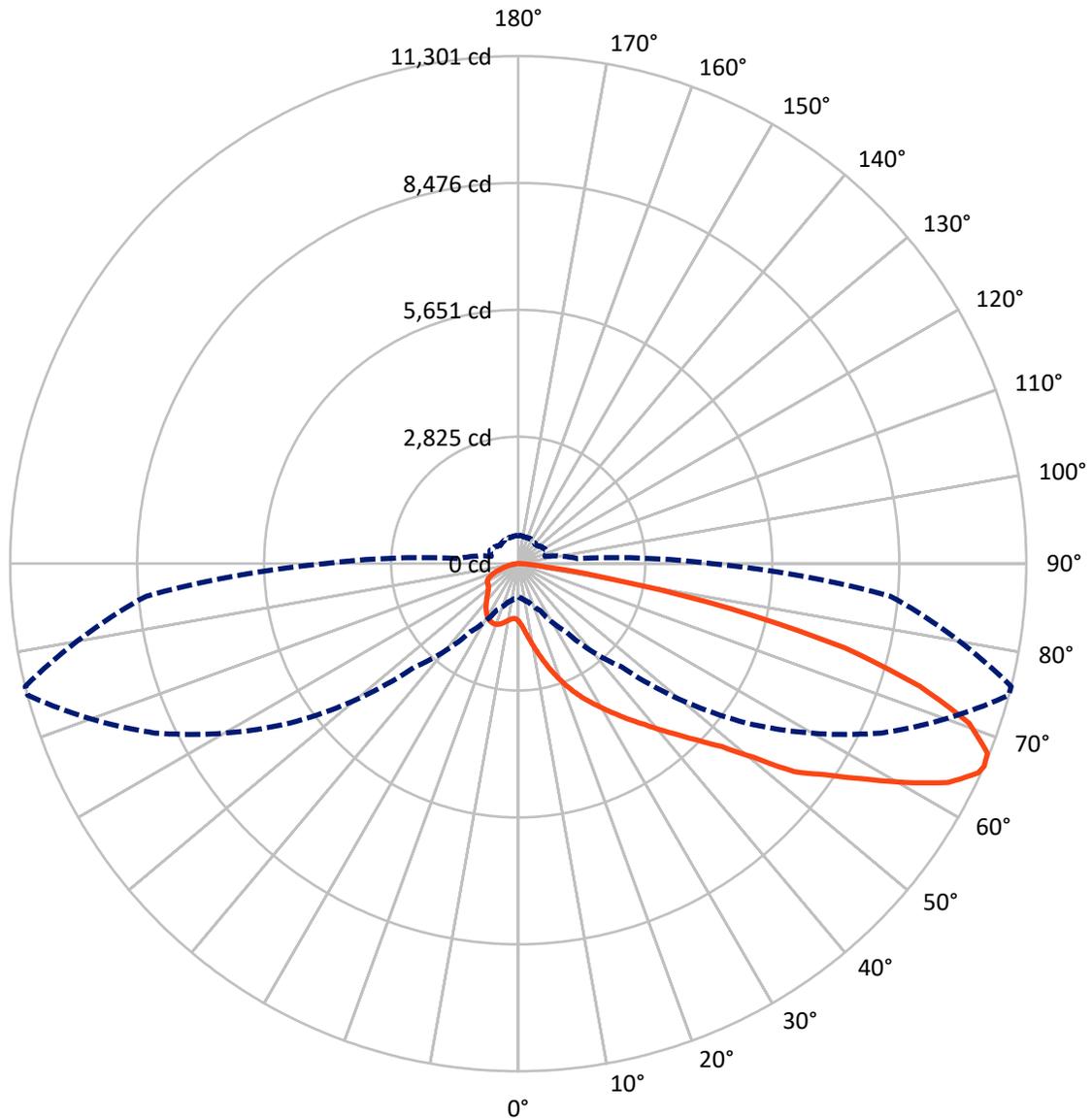
Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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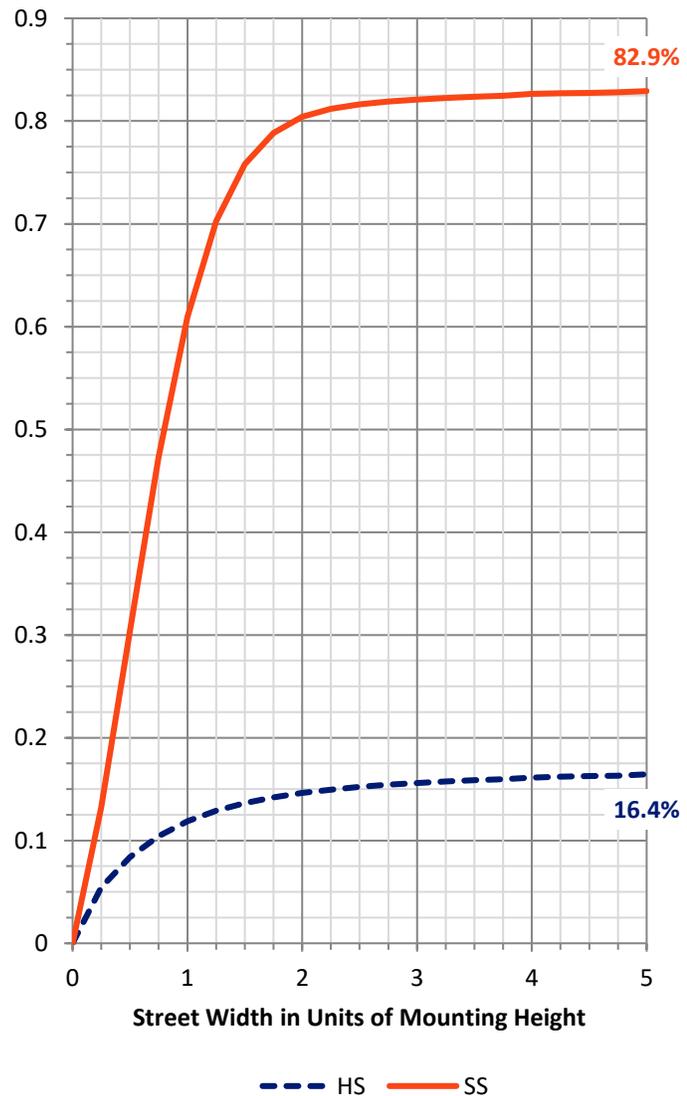
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2356.6	0.0	2356.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	11648.4	0.0	11648.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	14005.0	0.0	14005.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.7	1.1
10°-20°	610.8	4.4
20°-30°	1186.8	8.5
30°-40°	1937.2	13.8
40°-50°	2646.7	18.9
50°-60°	3082.8	22.0
60°-70°	2763.8	19.7
70°-80°	1396.7	10.0
80°-90°	225.6	1.6
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°	14005.0	100.0
0°-180°	14005.0	100.0



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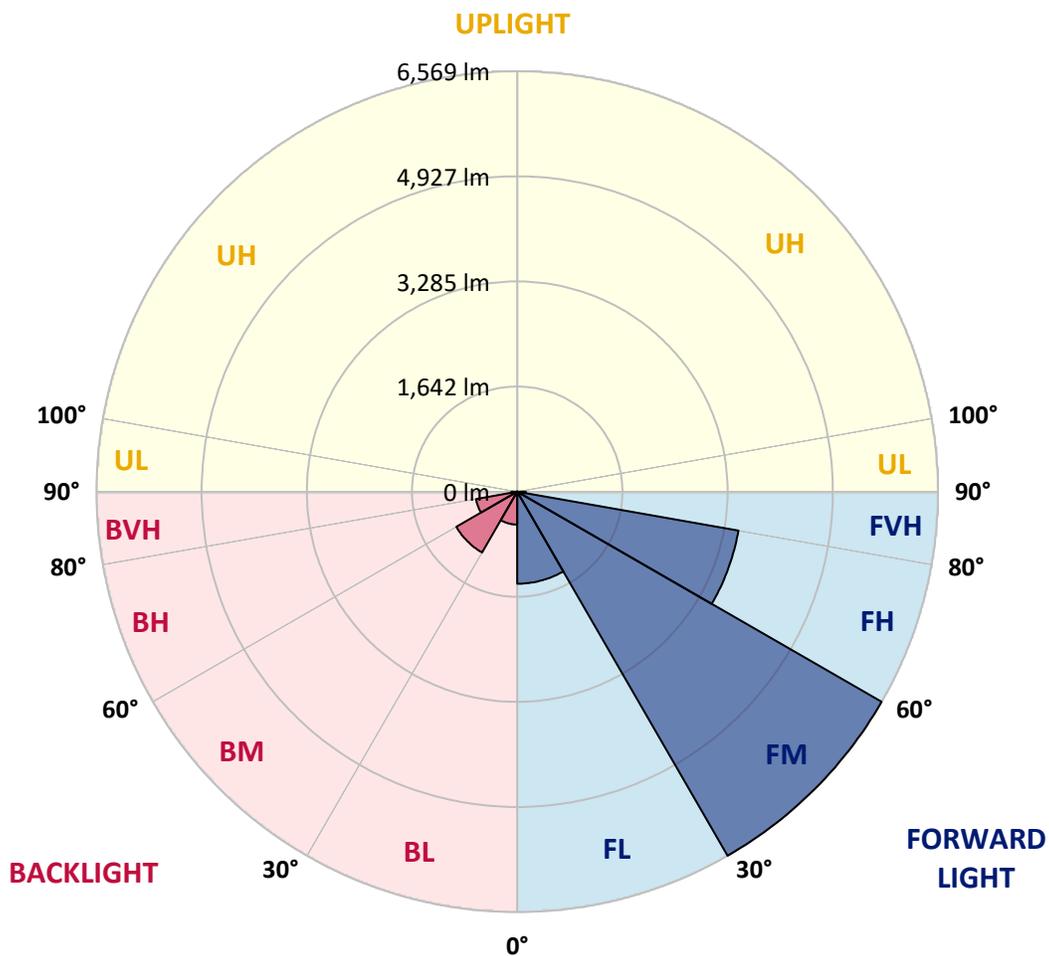
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1438.3	10.3			
FM	(30°-60°)	6569.3	46.9			
FH	(60°-80°)	3507.6	25.0			G2/5000
FVH	(80°-90°)	133.2	1.0			G2/225
BL	(0°-30°)	514.0	3.7	B2/1000		
BM	(30°-60°)	1097.4	7.8	B2/2500		
BH	(60°-80°)	652.9	4.7	B2/1000		G2/1000
BVH	(80°-90°)	92.3	0.7			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0
2.5°	1697.8	1672.2	1669.8	1632.2	1623.7	1551.9	1499.1	1444.0	1381.2	1368.8	1319.4
5°	2180.9	2178.5	2145.7	2084.4	2036.4	1913.7	1792.5	1664.1	1523.4	1500.5	1389.3
7.5°	2615.5	2611.7	2586.5	2520.4	2451.0	2300.2	2127.2	1930.3	1702.1	1668.4	1483.9
10°	2945.4	2944.0	2935.5	2887.0	2828.0	2683.5	2492.3	2223.7	1909.9	1863.8	1602.3
12.5°	3200.3	3203.1	3208.8	3191.7	3163.7	3040.5	2844.6	2534.6	2131.5	2085.8	1734.0
15°	3372.9	3381.4	3410.9	3435.2	3449.9	3374.3	3184.6	2852.7	2379.6	2325.0	1879.9
17.5°	3459.9	3469.4	3520.3	3593.5	3661.0	3653.4	3502.7	3156.1	2617.9	2565.1	2036.8
20°	3535.0	3542.1	3599.2	3687.1	3806.5	3859.3	3774.6	3448.0	2878.9	2816.1	2203.3
22.5°	3752.8	3761.8	3778.9	3828.8	3934.4	4031.4	3990.5	3724.2	3118.0	3059.5	2361.1
25°	4173.1	4184.0	4146.9	4104.6	4124.6	4192.1	4199.7	3976.2	3360.5	3294.4	2530.8
27.5°	4679.4	4695.1	4631.9	4523.0	4427.9	4401.8	4392.7	4182.6	3592.1	3515.5	2698.7
30°	5175.3	5202.4	5120.2	4979.0	4804.5	4681.8	4591.0	4384.6	3820.3	3747.1	2857.0
32.5°	5659.8	5648.9	5529.5	5391.7	5187.2	5033.6	4814.0	4601.4	4077.0	3992.9	3014.4
35°	5991.7	5995.5	5884.7	5721.1	5526.2	5408.3	5112.6	4835.4	4339.0	4261.5	3193.2
37.5°	6274.1	6256.5	6131.0	5978.4	5810.5	5760.1	5462.0	5093.1	4622.8	4538.2	3383.3
40°	6368.2	6347.8	6265.5	6155.7	6021.2	6016.9	5847.6	5385.0	4943.8	4860.1	3597.8
42.5°	6311.2	6285.0	6251.3	6221.3	6180.0	6199.0	6209.9	5727.3	5296.6	5202.9	3846.0
45°	6100.6	6061.1	6084.9	6150.0	6239.9	6347.3	6537.0	6106.3	5691.7	5613.2	4137.4
47.5°	5776.8	5741.1	5815.3	5954.6	6199.0	6470.9	6846.5	6524.7	6163.3	6085.3	4552.5
50°	5321.3	5331.7	5437.8	5691.2	6060.6	6528.0	7227.9	7078.6	6848.9	6776.2	5118.7
52.5°	4573.9	4575.8	4874.4	5290.4	5815.3	6498.5	7439.4	7786.5	7785.1	7697.1	5657.9
55°	3879.7	3922.0	4158.3	4711.3	5417.8	6380.6	7587.3	8130.7	8399.9	8296.7	6160.5
57.5°	3201.7	3226.4	3450.4	4005.7	4850.6	6066.3	7739.0	8543.9	9108.3	9043.1	6785.2
60°	2430.5	2468.6	2700.1	3213.1	4125.0	5508.6	7753.2	8975.2	9955.1	9889.5	7482.7
62.5°	1577.6	1643.2	1860.0	2340.7	3247.4	4706.5	7422.3	9257.1	10757.6	10734.3	8101.7
65°	906.7	956.1	1106.9	1477.7	2240.3	3699.5	6635.4	9148.7	11251.6	11238.3	8333.3
66°	740.8	771.7	887.2	1154.9	1848.6	3248.8	6178.1	8920.0	11300.6	11301.1	8306.7
67.5°	592.4	606.2	658.0	826.8	1364.1	2575.1	5360.7	8415.5	11239.7	11256.4	8135.0
70°	490.2	497.3	513.5	554.4	744.6	1552.8	3805.1	7104.7	10628.8	10641.6	7465.1
72.5°	439.8	444.1	450.3	456.0	525.4	867.7	2324.0	5683.6	9318.9	9335.5	6444.3
75°	398.4	400.8	399.9	400.3	440.7	553.0	1201.0	4243.4	7535.0	7501.7	4936.6
77.5°	349.9	352.3	347.6	348.5	389.9	425.1	597.6	2970.6	5085.0	4850.1	2781.4
80°	295.7	297.6	295.7	299.1	339.5	320.9	347.6	1671.2	2248.4	2126.7	988.9
82.5°	223.5	231.5	237.3	250.6	279.6	228.2	232.5	650.9	684.7	651.8	303.3
85°	97.9	119.3	178.8	191.6	210.2	136.9	152.6	265.3	278.6	270.1	110.3
87.5°	25.7	28.1	88.4	111.3	116.5	61.8	79.4	120.8	127.4	120.8	36.6
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°	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0
2.5°	1293.2	1269.9	1228.1	1191.0	1163.0	1143.9	1124.9	1115.4	1109.7	1104.0	1105.0
5°	1334.6	1287.5	1215.7	1164.9	1136.3	1118.3	1108.8	1105.0	1102.6	1096.9	1096.9
7.5°	1396.9	1330.3	1231.4	1179.1	1156.8	1143.0	1137.3	1135.4	1132.5	1125.9	1126.8
10°	1475.3	1382.1	1264.2	1213.4	1192.9	1177.7	1169.6	1166.8	1161.5	1153.9	1154.9
12.5°	1567.6	1446.3	1307.5	1254.2	1229.5	1209.1	1195.8	1187.7	1178.7	1168.7	1169.1
15°	1668.4	1516.2	1354.1	1290.9	1257.1	1228.6	1207.2	1193.4	1179.1	1166.8	1166.3
17.5°	1770.6	1583.7	1389.8	1310.8	1265.2	1227.6	1198.6	1177.2	1159.6	1144.4	1143.0
20°	1880.9	1644.6	1409.7	1308.9	1250.0	1205.3	1166.8	1140.1	1120.6	1105.4	1103.1
22.5°	1993.1	1701.7	1413.1	1289.4	1216.2	1161.5	1121.1	1091.6	1071.7	1056.0	1050.3
25°	2095.8	1745.9	1399.3	1251.9	1169.1	1110.2	1070.7	1040.8	1024.6	1006.1	1000.4
27.5°	2189.5	1776.8	1371.7	1203.9	1116.4	1058.4	1021.3	995.6	978.0	963.7	959.0
30°	2273.6	1793.4	1326.5	1146.8	1062.2	1009.4	978.0	960.4	945.2	927.1	923.8
32.5°	2353.5	1793.4	1268.5	1084.5	1008.4	966.1	947.6	936.6	919.5	901.9	897.2
35°	2433.4	1782.5	1200.0	1019.4	959.0	935.2	934.3	921.4	895.3	871.5	865.3
37.5°	2517.5	1760.1	1123.0	958.5	918.6	921.4	929.5	901.0	863.9	830.1	821.1
40°	2612.6	1729.2	1043.1	905.7	884.8	915.2	916.7	871.5	799.2	768.3	760.3
42.5°	2724.4	1698.3	969.0	859.1	858.2	896.7	892.4	807.8	764.5	748.8	744.6
45°	2871.3	1680.7	898.6	814.9	837.3	866.8	851.1	772.6	754.5	745.5	741.7
47.5°	3102.8	1689.8	833.9	779.7	816.4	836.8	774.0	758.3	745.5	734.6	730.8
50°	3392.8	1684.5	781.6	755.5	792.6	805.4	739.3	739.8	733.2	720.8	715.1
52.5°	3611.1	1643.6	747.9	741.7	771.7	749.8	717.5	721.7	718.4	700.3	694.2
55°	3821.7	1608.5	730.8	736.5	756.4	680.4	691.8	702.2	698.9	681.3	678.5
57.5°	4083.7	1601.8	720.3	737.9	743.6	645.7	667.1	680.9	678.5	670.9	669.4
60°	4404.6	1603.7	710.8	740.3	729.3	620.0	643.8	661.4	662.8	661.4	660.4
62.5°	4581.0	1551.9	687.0	733.6	704.1	597.6	619.5	645.2	645.7	648.5	648.0
65°	4431.2	1396.9	642.8	710.3	661.8	579.1	598.6	626.6	619.5	632.4	632.4
66°	4285.7	1307.5	620.9	695.1	643.8	572.0	591.9	617.1	608.1	625.7	625.7
67.5°	3988.6	1156.8	581.5	662.8	618.1	562.0	584.3	601.4	589.1	615.2	613.3
70°	3445.6	894.8	502.1	589.6	575.8	547.2	573.9	570.1	552.0	591.9	584.3
72.5°	2905.0	679.9	403.2	493.5	511.6	528.7	559.1	530.1	507.3	535.4	518.7
75°	2254.1	511.1	318.6	383.7	432.2	499.7	541.5	484.0	451.2	448.4	439.3
77.5°	1218.6	350.9	252.5	292.9	343.3	463.6	529.7	434.6	385.1	373.7	366.6
80°	482.6	228.2	183.5	222.0	240.1	411.3	501.1	377.0	317.6	306.2	295.3
82.5°	199.2	135.0	118.4	148.8	156.4	351.8	449.8	309.0	245.3	339.5	360.4
85°	85.6	74.2	70.4	77.0	88.4	246.8	358.0	235.8	264.8	236.3	187.8
87.5°	25.7	31.4	30.0	29.5	32.3	59.0	190.7	131.2	194.5	73.7	55.2
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)