

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: P1209161

Luminaire Tested: UPW-SA2-090-827-U-T2R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209161
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-SA2-090-827-U-T2R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7076 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

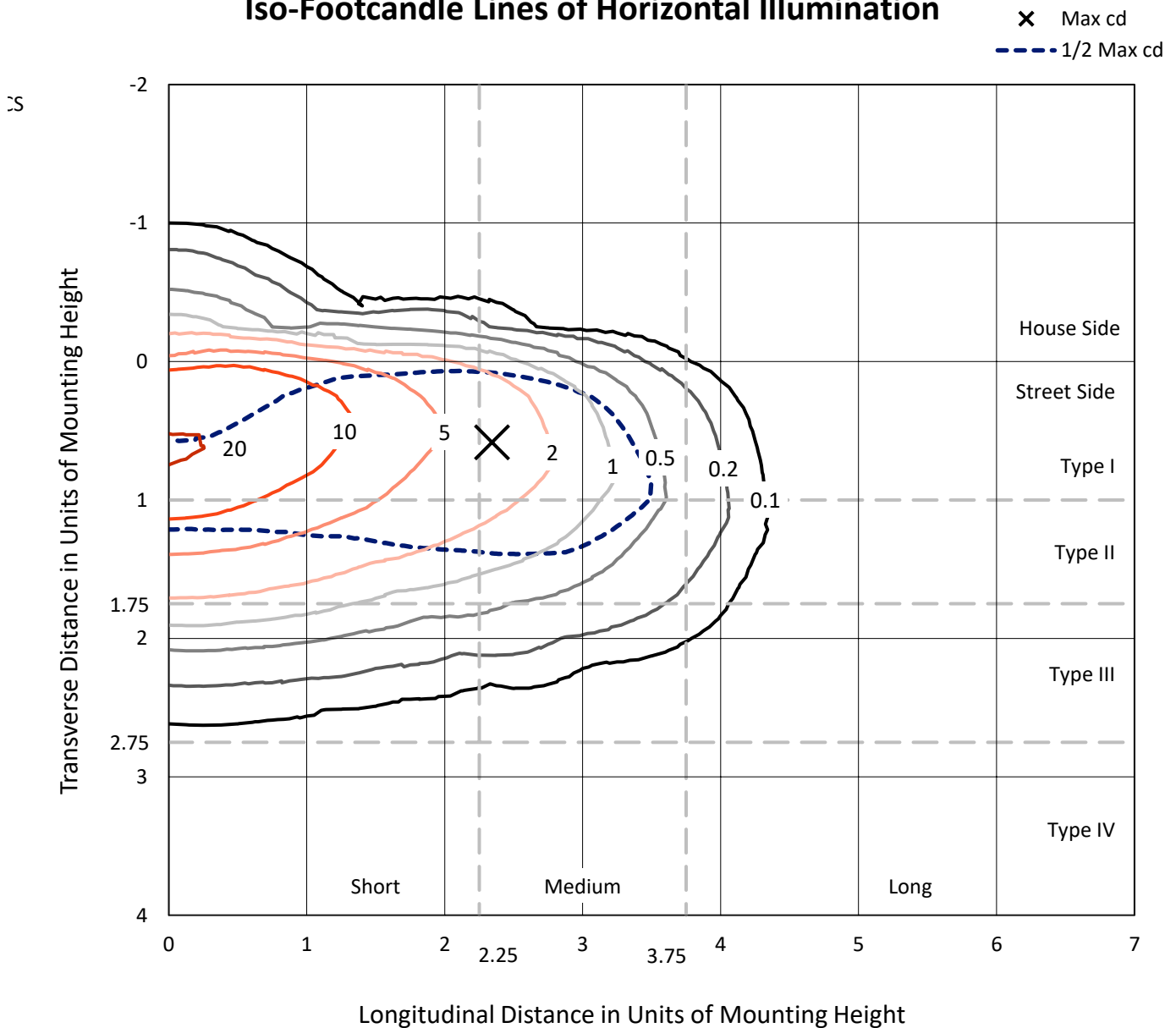
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

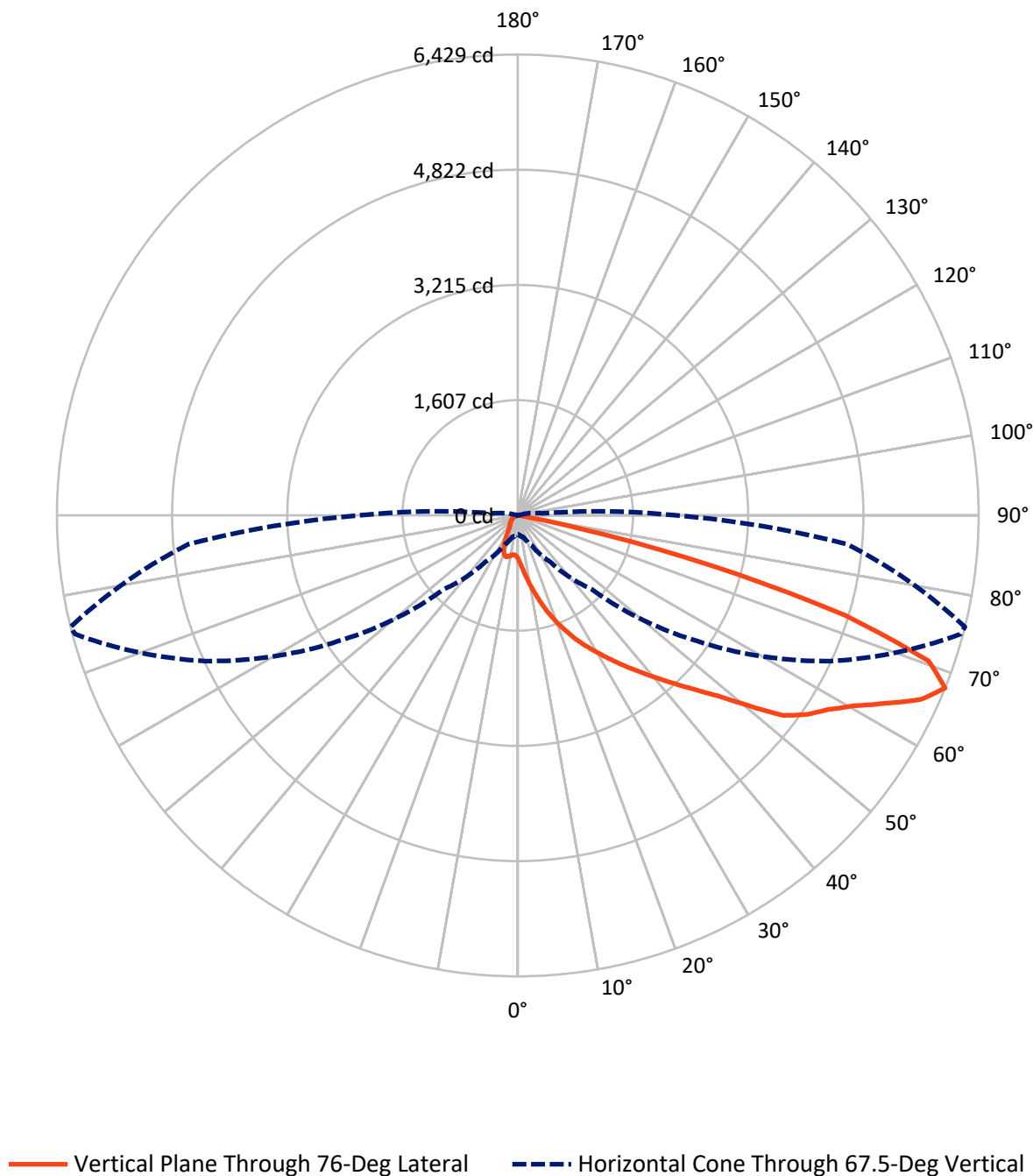


Based on 10 foot mounting height. Maximum calculated value = 21.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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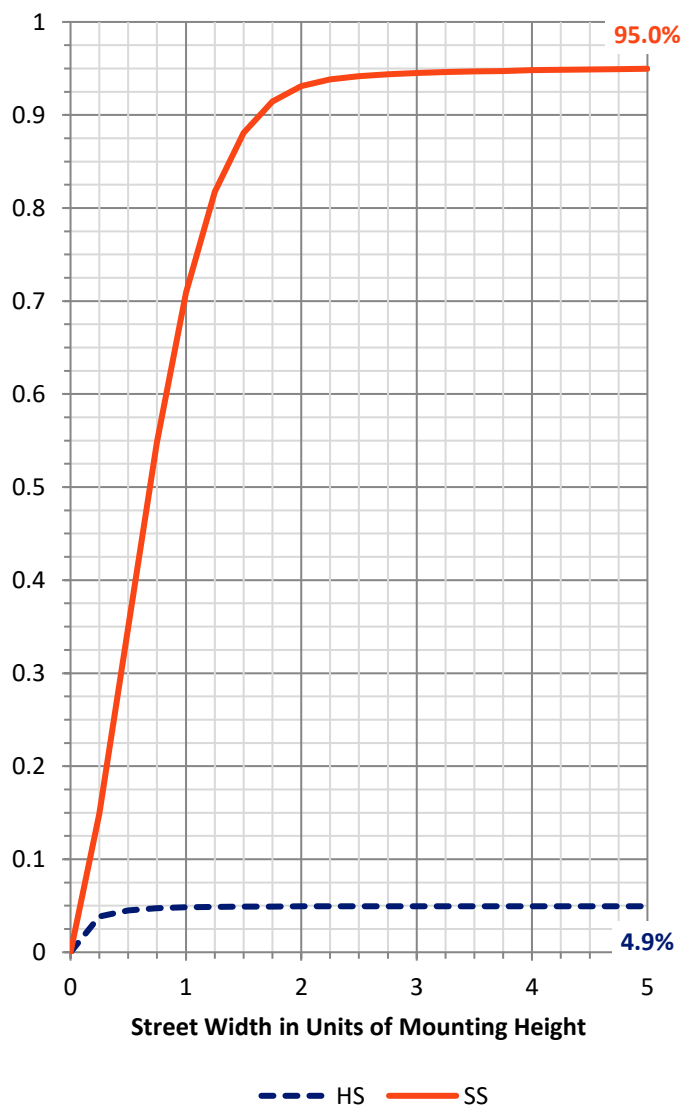
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	351.4	0.0	351.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	6724.6	0.0	6724.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	7076.0	0.0	7076.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	1.1
10°-20°	295.9	4.2
20°-30°	602.0	8.5
30°-40°	1044.9	14.8
40°-50°	1476.3	20.9
50°-60°	1674.2	23.7
60°-70°	1388.6	19.6
70°-80°	503.0	7.1
80°-90°	16.3	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°	7076.0	100.0
0°-180°	7076.0	100.0

Coefficient of Utilization



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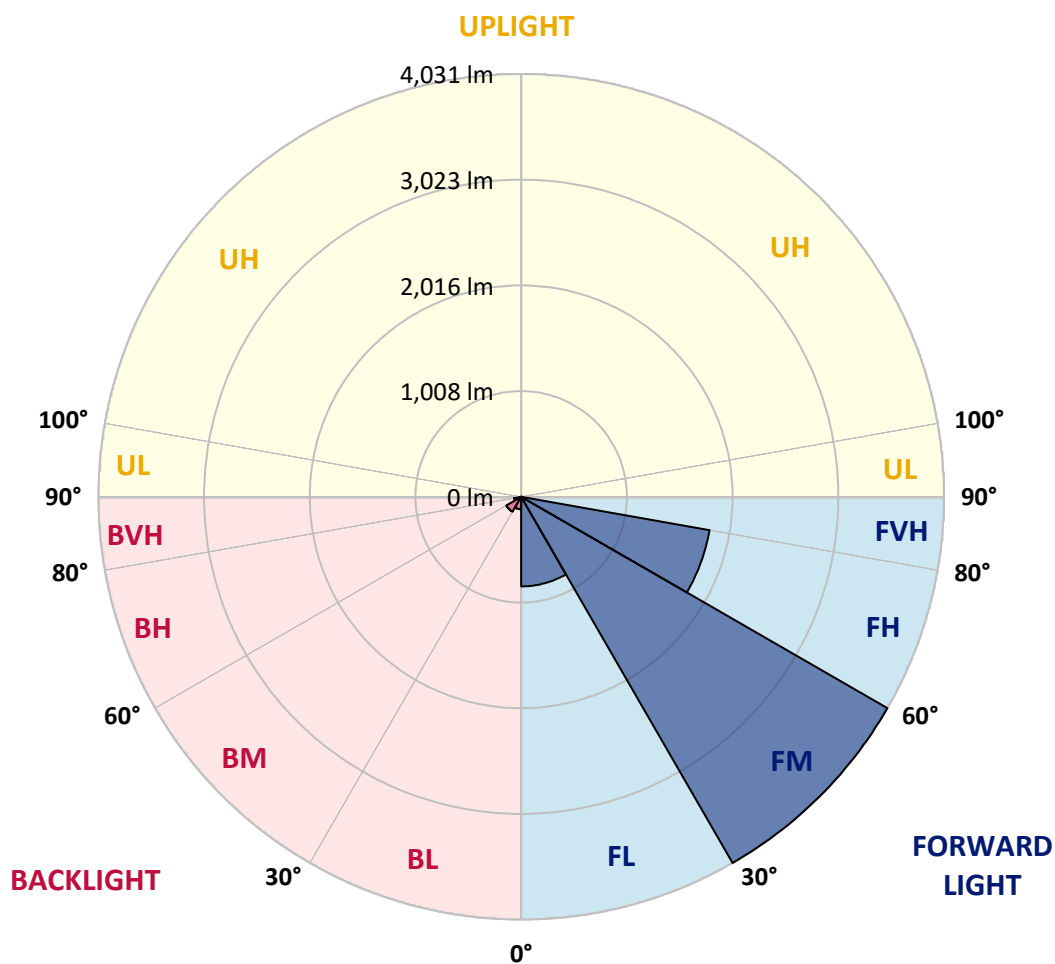
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	854.0	12.1			
FM	(30°-60°)	4031.1	57.0			
FH	(60°-80°)	1823.7	25.8			G2/5000
FVH	(80°-90°)	15.8	0.2			G1/100
BL	(0°-30°)	118.5	1.7	B1/500		
BM	(30°-60°)	164.5	2.3	B0/220		
BH	(60°-80°)	67.9	1.0	B0/110		G0/110
BVH	(80°-90°)	0.5	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°	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2
2.5°	896.0	875.9	880.5	867.5	843.9	795.6	754.3	715.3	669.7	668.1	630.6
5°	1208.3	1191.2	1189.0	1162.7	1119.9	1037.7	957.7	866.6	764.9	757.4	677.8
7.5°	1491.6	1478.0	1473.0	1441.7	1362.0	1282.0	1177.9	1043.9	884.9	871.2	741.3
10°	1709.3	1702.8	1704.0	1681.7	1613.5	1539.1	1402.3	1231.5	1021.0	999.9	817.6
12.5°	1874.2	1875.8	1886.9	1873.3	1835.2	1780.0	1633.9	1431.5	1171.7	1142.8	904.7
15°	1995.5	2003.2	2023.7	2040.7	2037.9	1990.2	1856.2	1634.6	1331.6	1299.7	1001.8
17.5°	2073.9	2082.6	2112.3	2150.2	2184.9	2173.7	2070.8	1830.5	1493.5	1456.6	1105.6
20°	2142.7	2153.0	2184.9	2234.8	2299.6	2313.6	2246.0	2020.6	1655.0	1610.1	1212.9
22.5°	2291.9	2291.6	2311.1	2340.2	2401.9	2437.9	2395.1	2197.0	1814.7	1767.9	1322.3
25°	2561.6	2551.4	2544.6	2521.6	2535.2	2557.6	2533.7	2361.9	1975.3	1927.9	1433.3
27.5°	2882.2	2888.4	2833.2	2771.5	2723.8	2700.8	2661.7	2514.8	2129.7	2077.6	1541.9
30°	3220.5	3222.3	3157.2	3078.5	2973.3	2886.2	2818.6	2660.8	2288.5	2231.7	1647.3
32.5°	3525.5	3513.4	3449.0	3341.7	3209.0	3111.0	2970.6	2823.9	2456.5	2401.6	1764.5
35°	3767.4	3753.1	3674.7	3577.0	3439.3	3340.7	3171.8	2986.7	2633.2	2579.6	1882.0
37.5°	3944.1	3927.4	3846.7	3746.3	3627.5	3570.2	3405.2	3163.7	2826.1	2768.4	2005.7
40°	4005.5	3990.9	3940.4	3866.9	3771.4	3758.4	3653.0	3367.4	3036.0	2974.6	2145.8
42.5°	3968.9	3954.6	3936.7	3911.9	3872.2	3884.6	3886.7	3599.6	3269.1	3208.7	2300.5
45°	3823.8	3811.1	3829.7	3866.0	3915.3	3976.7	4100.1	3849.2	3529.6	3465.1	2479.4
47.5°	3610.2	3600.9	3652.3	3742.9	3887.1	4056.3	4295.1	4111.5	3821.9	3762.1	2702.7
50°	3306.3	3304.8	3407.7	3573.0	3794.7	4094.8	4496.6	4409.8	4228.1	4165.2	3013.0
52.5°	2833.2	2836.3	3038.8	3303.2	3632.5	4068.7	4626.2	4793.0	4700.6	4635.2	3281.8
55°	2382.7	2401.3	2544.9	2926.2	3383.8	3972.0	4670.8	4971.9	4961.4	4899.4	3431.3
57.5°	1941.5	1975.3	2113.6	2469.8	3020.8	3749.1	4646.4	5049.4	5155.5	5108.0	3628.5
60°	1463.4	1478.9	1638.3	1971.3	2554.8	3342.3	4468.7	5091.6	5420.9	5388.0	3914.6
62.5°	931.1	969.8	1111.2	1432.4	1989.3	2777.4	4169.2	5091.0	5752.9	5770.9	4283.9
65°	490.5	535.8	610.8	887.7	1367.0	2146.5	3718.7	5043.2	6160.3	6185.4	4572.6
67.5°	264.5	277.5	317.2	460.7	792.8	1454.1	3056.7	4807.6	6396.3	6429.4	4612.9
70°	193.5	200.6	215.5	254.9	399.0	844.6	2230.5	4273.4	6092.1	6079.7	4098.5
72.5°	148.5	159.7	170.8	186.6	229.4	450.8	1388.7	3346.3	4860.9	4779.1	3063.6
75°	117.2	119.1	134.9	149.1	172.1	256.7	616.7	1949.0	2966.8	2773.1	1588.7
77.5°	93.6	94.9	104.2	116.6	138.3	168.7	191.0	766.7	947.2	845.2	344.8
80°	55.5	58.6	77.5	89.9	114.7	106.3	69.8	166.5	147.9	133.9	58.0
82.5°	31.0	33.5	43.7	71.0	80.0	50.8	34.7	45.0	34.7	33.8	16.4
85°	0.0	1.6	28.2	44.0	32.6	11.2	14.6	14.9	10.2	9.6	6.5
87.5°	0.0	0.0	8.7	8.4	1.2	1.9	3.4	5.0	4.0	4.0	3.4
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°	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2
2.5°	612.0	595.3	563.7	532.7	506.6	485.2	466.0	458.2	452.0	451.1	446.2
5°	639.3	605.5	545.1	495.5	462.3	438.7	418.6	406.2	396.5	392.8	389.4
7.5°	680.6	629.4	542.6	485.5	445.8	406.2	369.0	328.6	303.5	293.9	288.3
10°	730.8	661.0	551.9	482.7	413.3	329.6	267.9	216.7	195.9	189.1	187.3
12.5°	789.4	700.4	568.0	465.4	343.8	234.1	184.8	167.4	162.8	160.6	160.6
15°	856.7	743.5	579.5	415.2	254.2	177.0	160.0	151.9	147.0	144.2	144.5
17.5°	925.5	785.7	573.9	342.3	187.6	157.5	144.8	136.1	129.3	126.5	125.9
20°	994.9	824.7	542.9	254.9	158.7	142.9	128.7	119.1	112.2	109.4	108.8
22.5°	1066.9	857.9	488.3	187.0	142.6	126.8	112.9	103.2	96.7	94.3	93.0
25°	1136.9	884.9	412.1	151.3	127.4	111.6	98.3	89.3	83.4	80.9	80.6
27.5°	1202.4	901.9	323.7	133.6	114.1	98.0	85.9	77.8	72.9	71.0	70.7
30°	1261.3	903.5	239.4	120.6	102.3	86.2	75.0	67.9	63.6	61.7	61.1
32.5°	1320.8	890.5	174.2	108.8	91.5	76.0	65.1	59.5	56.4	54.9	54.9
35°	1376.9	860.4	135.8	98.6	80.9	66.0	57.4	53.3	51.5	49.9	49.9
37.5°	1431.8	817.3	115.3	89.6	71.0	57.7	50.5	48.1	46.5	45.0	45.0
40°	1487.6	763.0	104.8	81.2	62.9	51.2	45.0	42.8	41.2	40.0	39.7
42.5°	1556.1	700.4	98.0	73.5	55.8	45.3	39.7	37.2	36.0	34.7	34.1
45°	1635.5	646.4	92.4	65.7	49.9	40.3	34.4	31.9	30.1	28.5	28.2
47.5°	1749.9	607.4	85.0	57.4	44.3	35.0	29.8	27.0	24.2	22.6	22.3
50°	1895.9	575.1	75.3	49.9	38.8	29.8	24.8	21.4	18.9	17.4	17.4
52.5°	1968.5	533.0	66.7	43.4	32.6	25.1	20.2	16.1	14.9	13.3	13.3
55°	1997.6	500.7	58.0	36.9	27.0	20.8	15.8	12.4	11.5	10.5	10.2
57.5°	2079.5	491.4	50.5	31.3	22.3	16.4	12.1	9.3	8.7	7.4	7.4
60°	2211.3	496.1	43.7	26.7	18.0	12.7	9.0	7.1	6.5	5.3	5.3
62.5°	2353.6	490.2	36.9	22.9	14.0	9.3	6.2	5.3	5.3	3.1	2.8
65°	2380.8	436.5	31.6	18.9	10.9	6.8	4.0	3.4	4.7	0.6	0.0
67.5°	2209.7	338.6	27.3	14.6	8.1	5.3	3.1	1.6	4.0	0.0	0.0
70°	1767.0	215.2	22.0	10.5	6.2	4.3	2.5	0.6	3.1	0.0	0.0
72.5°	1249.5	124.9	17.4	7.4	5.3	3.4	1.9	0.0	1.9	0.0	0.0
75°	631.9	66.7	10.9	5.6	4.0	2.5	1.2	0.0	0.3	0.0	0.0
77.5°	136.7	31.0	6.8	4.0	2.8	1.6	0.6	0.0	0.0	0.0	0.0
80°	29.8	13.6	4.3	2.5	1.6	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	10.9	7.1	2.2	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.9	3.7	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	1.2	0.3	0.3	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)