

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P149385

Luminaire Tested: **VWM-F04-LED-E1-SL2-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149385
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VWM-F04-LED-E1-SL2-HSS
Description: VISION WALL MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6054.6 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

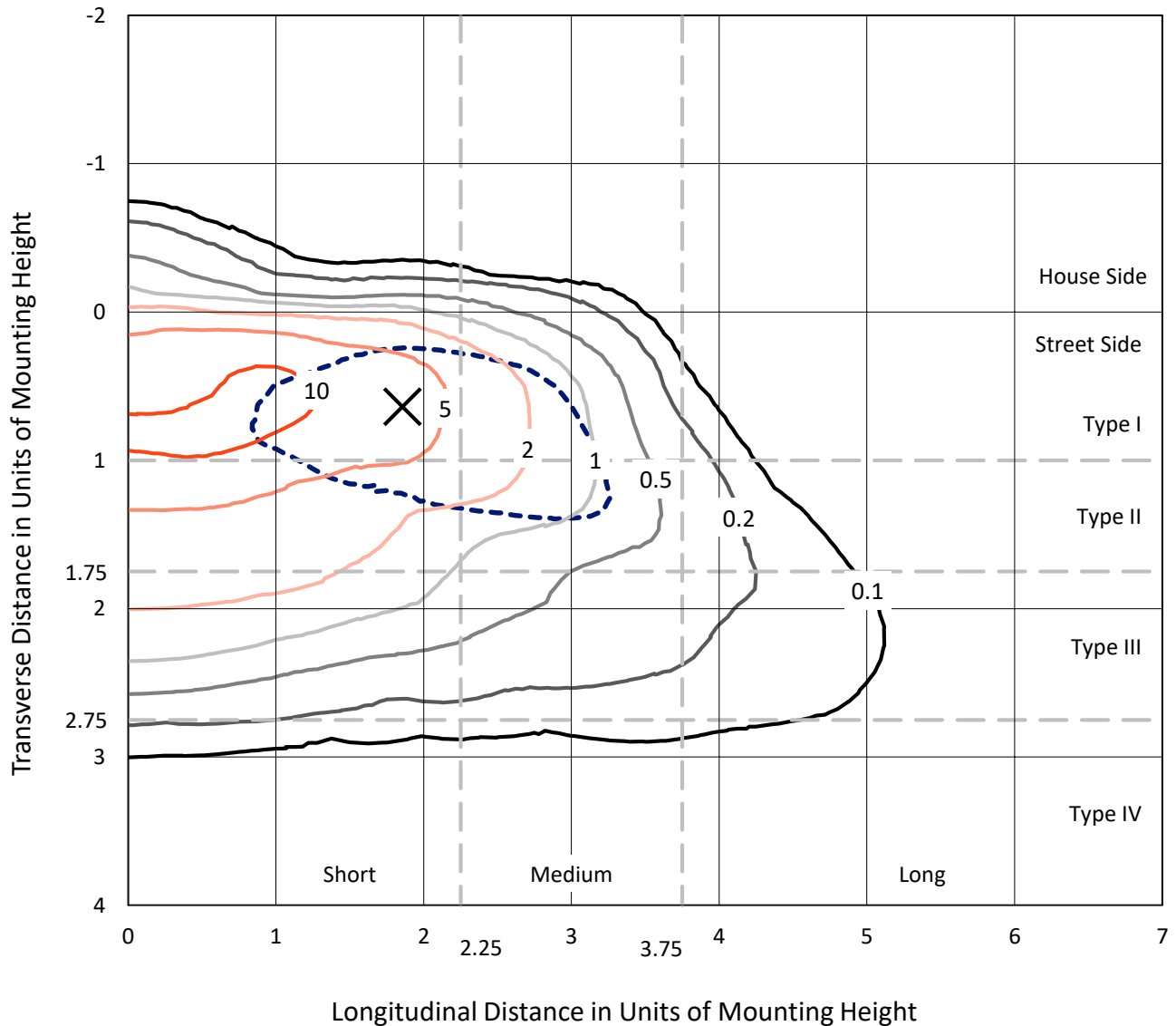
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

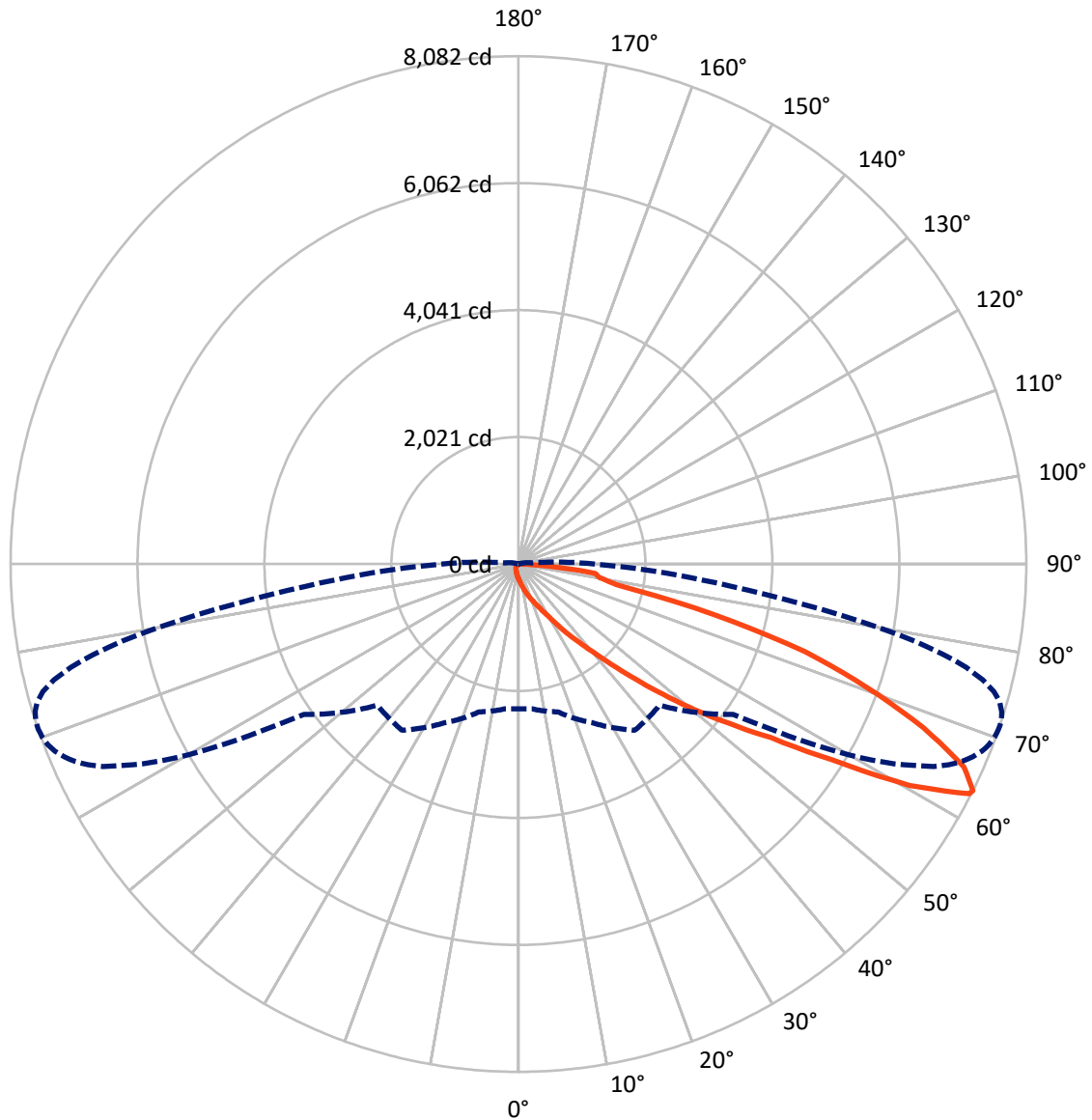
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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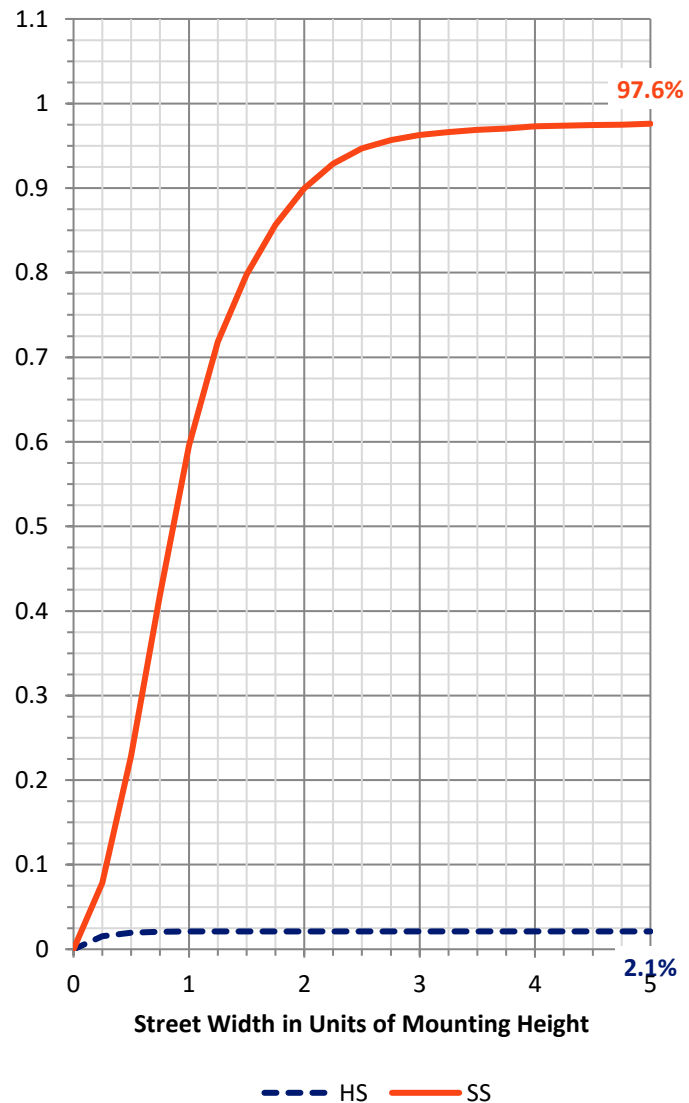
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	128.5	0.0	128.5
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	5926.1	0.0	5926.1
	% Fixture	97.9	0.0	97.9
Total	Lumens	6054.6	0.0	6054.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.7	0.4
10°-20°	99.6	1.6
20°-30°	202.2	3.3
30°-40°	494.0	8.2
40°-50°	1104.9	18.2
50°-60°	1553.6	25.7
60°-70°	1826.9	30.2
70°-80°	659.7	10.9
80°-90°	88.2	1.5
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°	6054.6	100.0
0°-180°	6054.6	100.0



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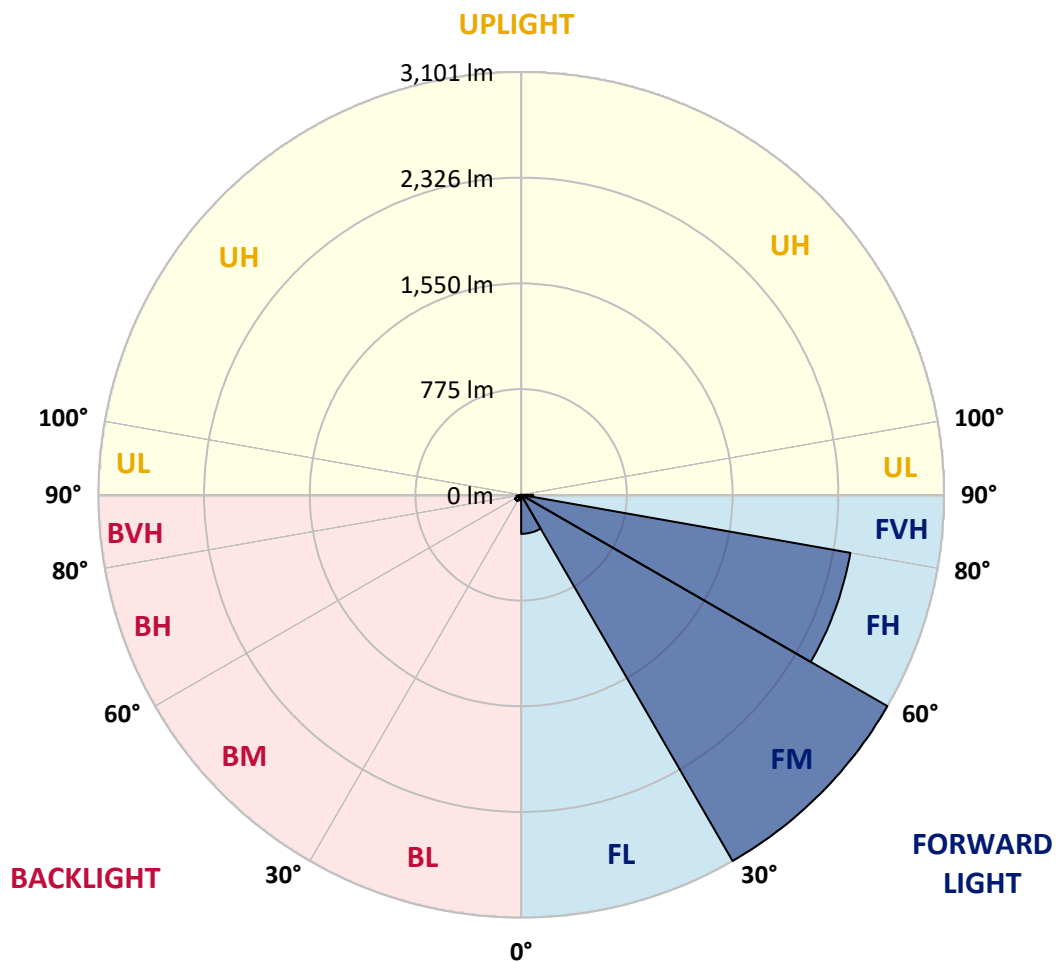
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	286.1	4.7			
FM (30°-60°)	3100.7	51.2			
FH (60°-80°)	2451.3	40.5			G2/5000
FVH (80°-90°)	88.0	1.5			G1/100
BL (0°-30°)	41.3	0.7	B0/110		
BM (30°-60°)	51.8	0.9	B0/220		
BH (60°-80°)	35.2	0.6	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2
2.5°	303.8	307.1	304.9	299.4	292.8	284.0	276.3	276.3	275.2	271.9	273.0
5°	398.5	399.6	395.2	381.9	369.8	351.1	330.2	328.0	325.8	322.5	321.4
7.5°	490.9	495.3	490.9	476.6	452.4	423.8	390.7	387.4	380.8	380.8	376.4
10°	585.6	585.6	581.2	564.7	542.6	501.9	460.1	454.6	446.9	444.7	438.1
12.5°	652.7	652.7	650.5	641.7	624.1	587.8	537.1	531.6	521.7	518.4	510.7
15°	679.1	679.1	680.2	687.9	689.0	672.5	619.7	615.3	605.4	596.6	593.3
17.5°	695.6	694.5	694.5	705.5	725.4	736.4	702.2	697.8	686.8	682.4	671.4
20°	732.0	729.8	723.2	723.2	741.9	780.4	780.4	779.3	767.2	763.9	758.4
22.5°	785.9	783.7	763.9	747.4	756.2	804.6	849.7	847.5	843.1	838.7	835.4
25°	874.0	866.3	832.1	783.7	776.0	827.7	902.6	908.1	911.4	911.4	913.6
27.5°	1007.1	997.2	936.7	846.4	812.3	865.2	960.9	971.9	981.8	984.0	993.9
30°	1192.1	1174.4	1087.5	955.4	877.3	920.2	1046.8	1058.9	1073.2	1077.6	1093.0
32.5°	1495.9	1485.9	1402.3	1204.2	1036.9	1028.1	1166.7	1182.2	1200.9	1208.6	1227.3
35°	1958.1	1960.3	1892.1	1713.8	1482.6	1361.6	1381.4	1394.6	1401.2	1424.3	1434.2
37.5°	2271.8	2277.3	2292.8	2222.3	2057.2	1933.9	1778.7	1793.0	1758.9	1762.2	1763.3
40°	2443.6	2461.2	2551.4	2619.7	2606.5	2534.9	2410.5	2418.2	2354.4	2340.1	2270.7
42.5°	2558.0	2581.1	2725.3	2936.7	3044.5	3109.5	3080.9	3077.6	3028.0	3009.3	2951.0
45°	2629.6	2650.5	2832.1	3143.6	3392.4	3581.7	3659.8	3668.6	3626.8	3608.1	3559.7
47.5°	2626.3	2650.5	2845.3	3220.6	3587.2	3889.9	4110.0	4121.0	4146.3	4129.8	4133.1
50°	2481.0	2504.1	2700.0	3089.7	3529.9	4030.8	4433.6	4468.8	4509.6	4537.1	4550.3
52.5°	2304.9	2321.4	2495.3	2865.1	3285.6	3972.4	4625.1	4685.7	4746.2	4798.0	4834.3
55°	2239.9	2258.6	2395.1	2702.2	3089.7	3728.1	4714.3	4803.5	4889.3	4974.1	5043.4
57.5°	2274.0	2291.7	2389.6	2625.2	2973.0	3470.5	4739.6	4878.3	5019.2	5156.8	5293.3
60°	2399.5	2418.2	2501.9	2696.7	2942.2	3321.9	4640.6	4870.6	5105.0	5345.0	5570.6
62.5°	2350.0	2357.7	2481.0	2822.2	3162.3	3195.3	4280.6	4602.0	4959.8	5329.6	5693.9
63°	2302.7	2311.5	2436.9	2788.1	3229.5	3176.6	4169.5	4508.5	4886.0	5284.5	5680.7
65°	2088.0	2089.1	2184.9	2462.3	3154.6	3209.6	3674.1	3997.7	4431.4	4909.1	5409.9
67.5°	1558.6	1550.9	1643.3	1854.7	2476.6	3210.7	3153.5	3335.1	3636.7	4060.5	4509.6
70°	552.6	540.4	690.1	982.9	1543.2	2626.3	2709.9	2722.0	2805.7	3034.6	3316.4
72.5°	179.4	182.7	220.1	359.9	711.1	1767.7	2453.5	2416.0	2394.0	2392.9	2430.3
75°	71.5	72.6	88.1	159.6	319.2	851.9	2148.6	2169.5	2177.2	2188.2	2200.3
77.5°	34.1	37.4	49.5	89.2	158.5	421.6	1537.7	1714.9	1816.2	1894.3	1941.6
80°	12.1	14.3	27.5	55.0	73.7	193.7	810.1	977.4	1126.0	1317.5	1482.6
82.5°	0.0	0.0	5.5	38.5	40.7	78.1	332.4	389.6	445.8	577.9	741.9
85°	0.0	0.0	0.0	11.0	12.1	13.2	112.3	135.4	151.9	177.2	204.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.3	6.6	16.5	25.3
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2
2.5°	270.8	269.7	269.7	267.5	266.4	264.2	263.1	259.8	258.7	258.7	258.7
5°	320.3	315.9	313.7	308.2	304.9	303.8	298.3	296.1	292.8	293.9	288.4
7.5°	375.3	367.6	364.3	356.6	354.4	346.7	344.5	339.0	335.7	329.1	326.9
10°	435.9	426.0	420.5	408.4	405.1	399.6	392.9	386.3	380.8	374.2	370.9
12.5°	505.2	496.4	492.0	475.5	467.8	460.1	451.3	442.5	433.7	428.2	420.5
15°	586.7	572.4	568.0	552.6	539.3	529.4	517.3	506.3	499.7	488.7	481.0
17.5°	667.0	652.7	649.4	626.3	612.0	605.4	592.2	577.9	565.8	554.8	542.6
20°	747.4	737.5	728.7	706.6	691.2	680.2	662.6	648.3	638.4	623.0	607.6
22.5°	827.7	817.8	811.2	788.1	773.8	758.4	743.0	727.6	713.3	694.5	676.9
25°	910.3	903.7	900.4	879.5	866.3	851.9	836.5	818.9	801.3	780.4	761.7
27.5°	996.1	998.3	991.7	987.3	973.0	963.1	938.9	926.8	913.6	888.3	865.2
30°	1105.1	1111.7	1109.5	1112.8	1104.0	1097.4	1078.7	1063.3	1047.9	1023.7	997.2
32.5°	1242.7	1251.5	1255.9	1268.0	1263.6	1261.4	1255.9	1233.9	1222.9	1181.1	1170.0
35°	1455.1	1450.7	1469.4	1479.3	1474.9	1472.7	1466.1	1454.0	1440.8	1411.1	1383.6
37.5°	1731.4	1735.8	1742.4	1722.6	1709.4	1708.3	1688.5	1676.4	1657.7	1624.6	1591.6
40°	2237.7	2210.2	2179.4	2095.7	2059.4	2038.5	1980.2	1963.6	1931.7	1886.6	1852.5
42.5°	2895.9	2868.4	2776.0	2636.2	2561.3	2457.9	2410.5	2352.2	2307.1	2233.3	2193.7
45°	3549.8	3470.5	3459.5	3296.6	3204.1	3067.7	2982.9	2884.9	2782.6	2685.7	2615.3
47.5°	4101.2	4083.6	4029.7	3930.6	3844.7	3730.3	3621.3	3470.5	3364.8	3227.3	3100.7
50°	4542.6	4541.5	4521.7	4464.4	4392.9	4300.4	4204.7	4077.0	3957.0	3788.6	3653.2
52.5°	4872.8	4890.4	4897.0	4879.4	4851.9	4770.4	4722.0	4615.2	4514.0	4370.9	4224.5
55°	5115.0	5179.9	5212.9	5250.3	5242.6	5214.0	5211.8	5142.5	5096.2	4982.9	4879.4
57.5°	5414.3	5521.1	5623.5	5805.1	5811.7	5875.5	5908.6	5941.6	5950.4	5905.3	5871.1
60°	5795.2	6013.1	6206.8	6586.6	6685.7	6842.0	6943.2	7053.3	7146.8	7154.5	7152.3
62.5°	6063.8	6399.5	6712.1	7275.6	7468.2	7648.8	7784.1	7890.9	7955.9	8021.9	8052.7
63°	6071.5	6439.1	6771.5	7352.7	7555.2	7726.9	7855.7	7954.8	8023.0	8062.6	8082.4
65°	5885.4	6331.2	6727.5	7306.4	7496.9	7669.7	7736.8	7801.8	7834.8	7850.2	7791.9
67.5°	4988.4	5424.2	5886.5	6533.8	6696.7	6903.6	6958.6	6991.6	7007.1	7003.8	6954.2
70°	3730.3	4095.7	4609.7	5349.4	5565.1	5767.7	5893.1	5947.1	5964.7	5959.2	5885.4
72.5°	2604.3	2818.9	3242.7	4066.0	4359.9	4619.6	4774.8	4855.2	4871.7	4838.7	4770.4
75°	2187.1	2198.1	2293.9	2744.0	3019.2	3296.6	3471.6	3522.2	3489.2	3389.1	3215.1
77.5°	1952.6	1976.9	1976.9	2044.0	2097.9	2175.0	2191.5	2068.2	1925.1	1740.2	1590.5
80°	1637.8	1722.6	1782.0	1831.6	1837.1	1821.7	1780.9	1711.6	1601.5	1460.6	1304.3
82.5°	995.0	1162.3	1230.6	1485.9	1611.4	1696.2	1689.6	1597.1	1513.5	1367.1	1233.9
85°	251.0	270.8	293.9	381.9	428.2	522.8	582.3	609.8	619.7	569.1	515.1
87.5°	24.2	16.5	27.5	20.9	29.7	22.0	29.7	27.5	34.1	36.3	39.6
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2
2.5°	256.5	255.4	254.3	253.2	252.1	251.0	248.8	248.8	246.6	245.5	244.4
5°	285.1	282.9	281.8	279.6	276.3	274.1	270.8	266.4	263.1	262.0	259.8
7.5°	321.4	315.9	313.7	310.4	306.0	299.4	295.0	291.7	286.2	282.9	276.3
10°	362.1	356.6	350.0	343.4	336.8	329.1	323.6	319.2	310.4	306.0	298.3
12.5°	413.9	404.0	396.3	387.4	378.6	369.8	363.2	350.0	342.3	332.4	325.8
15°	466.7	457.9	449.1	438.1	424.9	410.6	404.0	391.8	381.9	366.5	357.7
17.5°	530.5	514.0	500.8	487.6	475.5	462.3	449.1	430.4	416.1	402.9	385.2
20°	593.3	573.5	559.2	541.5	523.9	503.0	487.6	474.4	454.6	437.0	418.3
22.5°	660.4	640.6	617.5	599.9	575.7	559.2	538.2	516.2	496.4	473.3	450.2
25°	741.9	721.0	694.5	671.4	643.9	620.8	595.5	570.2	545.9	519.5	489.8
27.5°	842.0	820.0	791.4	763.9	727.6	698.9	674.7	640.6	609.8	576.8	542.6
30°	968.6	944.4	909.2	869.6	833.2	801.3	767.2	722.1	687.9	648.3	604.3
32.5°	1133.7	1105.1	1057.8	1020.3	975.2	933.4	886.1	840.9	792.5	740.8	690.1
35°	1341.8	1315.3	1260.3	1205.3	1155.7	1106.2	1046.8	995.0	926.8	864.0	799.1
37.5°	1557.5	1510.2	1459.5	1400.1	1338.5	1279.0	1206.4	1134.8	1056.7	988.4	907.0
40°	1804.0	1746.8	1705.0	1641.1	1554.2	1469.4	1402.3	1313.1	1215.2	1123.8	1028.1
42.5°	2142.0	2078.1	2003.3	1906.4	1843.7	1744.6	1657.7	1552.0	1423.2	1320.8	1205.3
45°	2532.7	2445.8	2373.1	2279.5	2203.6	2080.3	1979.1	1838.2	1709.4	1575.1	1434.2
47.5°	2978.5	2870.6	2765.0	2672.5	2551.4	2430.3	2301.6	2151.9	1986.8	1839.3	1672.0
50°	3490.3	3337.3	3190.9	3072.1	2905.8	2766.1	2626.3	2457.9	2275.1	2105.6	1915.2
52.5°	4059.4	3882.2	3688.4	3505.7	3313.1	3133.7	2965.3	2771.6	2567.9	2361.0	2148.6
55°	4746.2	4613.0	4385.2	4152.9	3895.4	3655.4	3438.6	3198.6	2951.0	2679.1	2455.7
57.5°	5821.6	5756.7	5566.2	5334.0	4998.3	4706.6	4339.0	4045.1	3686.2	3312.0	3023.6
60°	7278.9	7198.6	7091.8	6903.6	6637.2	6241.0	5835.9	5379.1	4833.2	4314.7	3822.7
62.5°	8056.0	8027.4	7940.4	7810.6	7561.8	7249.2	6840.8	6338.9	5722.5	5092.9	4465.5
63°	8079.1	8042.8	7968.0	7835.9	7616.8	7314.2	6913.5	6425.9	5822.7	5181.0	4540.4
65°	7766.5	7752.2	7676.3	7532.1	7382.4	7151.2	6840.8	6421.5	5915.2	5308.7	4671.4
67.5°	6888.2	6845.3	6728.6	6684.6	6580.0	6419.3	6182.6	5894.2	5532.1	5055.5	4505.2
70°	5826.0	5762.2	5615.8	5537.6	5409.9	5308.7	5164.5	4958.7	4735.2	4402.8	3992.2
72.5°	4700.0	4567.9	4433.6	4230.0	4051.7	3871.2	3711.6	3566.3	3320.8	3186.5	2875.0
75°	3052.2	2812.3	2582.2	2274.0	1996.7	1751.2	1512.4	1391.3	1139.2	1036.9	890.5
77.5°	1448.5	1314.2	1133.7	993.9	815.6	665.9	543.7	408.4	320.3	251.0	191.5
80°	1168.9	1055.6	946.6	820.0	685.7	547.0	419.4	313.7	222.3	154.1	109.0
82.5°	1042.4	919.1	784.8	697.8	606.5	496.4	407.3	332.4	245.5	179.4	122.2
85°	405.1	341.2	263.1	214.6	167.3	137.6	124.4	85.9	67.1	52.8	40.7
87.5°	35.2	28.6	23.1	15.4	16.5	8.8	9.9	6.6	5.5	5.5	4.4
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2
2.5°	243.3	242.2	241.1	238.9	238.9	236.7	235.5	234.4	228.9	216.8	206.9
5°	255.4	253.2	251.0	247.7	245.5	242.2	240.0	236.7	224.5	201.4	181.6
7.5°	273.0	268.6	265.3	258.7	255.4	251.0	247.7	242.2	222.3	187.1	159.6
10°	293.9	286.2	280.7	273.0	266.4	260.9	255.4	247.7	220.1	171.7	139.8
12.5°	319.2	310.4	299.4	290.6	281.8	274.1	266.4	256.5	216.8	158.5	124.4
15°	344.5	331.3	323.6	311.5	299.4	288.4	277.4	268.6	217.9	144.2	111.2
17.5°	373.1	359.9	343.4	330.2	317.0	302.7	289.5	271.9	212.4	133.2	101.3
20°	400.7	381.9	366.5	350.0	331.3	313.7	297.2	281.8	208.0	122.2	92.5
22.5°	430.4	408.4	388.5	367.6	344.5	324.7	304.9	285.1	200.3	112.3	84.8
25°	466.7	441.4	412.8	387.4	363.2	339.0	313.7	289.5	192.6	103.5	79.3
27.5°	510.7	477.7	449.1	417.2	383.0	352.2	324.7	298.3	184.9	96.9	73.7
30°	566.9	528.3	487.6	446.9	410.6	375.3	336.8	303.8	177.2	90.3	68.2
32.5°	641.7	593.3	543.7	496.4	448.0	402.9	362.1	319.2	172.8	84.8	62.7
35°	740.8	678.0	617.5	558.1	499.7	444.7	391.8	343.4	172.8	78.1	56.1
37.5°	834.3	761.7	684.6	610.9	541.5	477.7	415.0	356.6	164.0	72.6	50.6
40°	935.6	848.6	758.4	671.4	587.8	508.5	437.0	369.8	156.3	66.0	45.1
42.5°	1090.8	980.7	862.9	761.7	661.5	563.6	474.4	395.2	146.4	59.4	39.6
45°	1294.4	1154.6	1015.9	892.7	765.0	645.0	539.3	441.4	144.2	53.9	34.1
47.5°	1512.4	1347.3	1184.4	1027.0	877.3	737.5	610.9	493.1	144.2	48.4	29.7
50°	1729.2	1522.3	1348.4	1165.6	997.2	832.1	681.3	547.0	145.3	44.0	24.2
52.5°	1925.1	1703.9	1509.1	1297.7	1111.7	920.2	756.2	599.9	143.1	38.5	19.8
55°	2197.0	1937.2	1711.6	1478.2	1260.3	1044.6	858.5	679.1	144.2	34.1	16.5
57.5°	2697.8	2392.9	2121.0	1815.1	1564.1	1285.6	1060.0	842.0	157.4	28.6	12.1
60°	3416.6	3020.3	2638.4	2265.2	1946.0	1614.7	1321.9	1065.5	184.9	23.1	8.8
62.5°	3899.8	3381.4	2925.7	2514.0	2143.1	1796.3	1477.1	1185.5	203.6	18.7	5.5
63°	3949.3	3413.3	2955.4	2530.5	2151.9	1805.1	1483.7	1194.3	204.7	17.6	5.5
65°	4042.9	3468.3	2971.9	2533.8	2143.1	1793.0	1479.3	1193.2	206.9	14.3	4.4
67.5°	3936.1	3383.6	2876.1	2439.2	2066.0	1721.5	1424.3	1149.1	205.8	9.9	3.3
70°	3520.0	3062.1	2616.4	2209.1	1870.1	1558.6	1296.6	1047.9	189.3	6.6	2.2
72.5°	2584.4	2272.9	1927.3	1633.4	1408.9	1170.0	998.3	787.0	146.4	4.4	1.1
75°	766.1	697.8	586.7	517.3	456.8	377.5	335.7	262.0	74.8	2.2	0.0
77.5°	153.0	138.7	124.4	113.4	106.8	91.4	87.0	71.5	30.8	1.1	0.0
80°	80.4	66.0	56.1	49.5	42.9	35.2	29.7	24.2	5.5	0.0	0.0
82.5°	77.0	51.7	37.4	30.8	26.4	20.9	16.5	12.1	3.3	0.0	0.0
85°	28.6	22.0	16.5	13.2	11.0	9.9	7.7	6.6	0.0	0.0	0.0
87.5°	4.4	3.3	3.3	2.2	2.2	1.1	1.1	1.1	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



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CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	232.2	232.2	232.2	232.2	232.2	232.2	232.2
2.5°	197.0	188.2	183.8	178.3	178.3	177.2	179.4
5°	164.0	151.9	143.1	136.5	137.6	134.3	135.4
7.5°	138.7	126.6	118.9	114.5	113.4	112.3	112.3
10°	120.0	109.0	102.4	99.1	98.0	98.0	98.0
12.5°	106.8	95.8	90.3	88.1	88.1	87.0	87.0
15°	95.8	87.0	81.5	79.3	79.3	78.1	79.3
17.5°	87.0	78.1	73.7	71.5	71.5	70.4	70.4
20°	79.3	71.5	67.1	63.8	63.8	62.7	63.8
22.5°	72.6	64.9	59.4	57.2	56.1	55.0	56.1
25°	66.0	58.3	52.8	49.5	48.4	48.4	47.3
27.5°	60.5	52.8	46.2	42.9	41.8	41.8	40.7
30°	55.0	46.2	39.6	36.3	35.2	35.2	35.2
32.5°	49.5	39.6	34.1	30.8	29.7	29.7	29.7
35°	44.0	34.1	28.6	25.3	24.2	24.2	24.2
37.5°	37.4	28.6	22.0	19.8	18.7	17.6	17.6
40°	31.9	22.0	16.5	14.3	12.1	12.1	12.1
42.5°	26.4	17.6	12.1	8.8	7.7	6.6	7.7
45°	22.0	13.2	7.7	4.4	3.3	3.3	3.3
47.5°	17.6	8.8	3.3	1.1	1.1	1.1	1.1
50°	13.2	5.5	1.1	0.0	0.0	1.1	1.1
52.5°	9.9	3.3	0.0	0.0	0.0	0.0	0.0
55°	5.5	1.1	0.0	0.0	0.0	0.0	0.0
57.5°	3.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	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

(END OF REPORT)