

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: P149348

Luminaire Tested: **VWM-E01-LED-E1-SL2-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149348
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-E01-LED-E1-SL2-HSS-8030
Description: VISION WALL MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1547.5 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

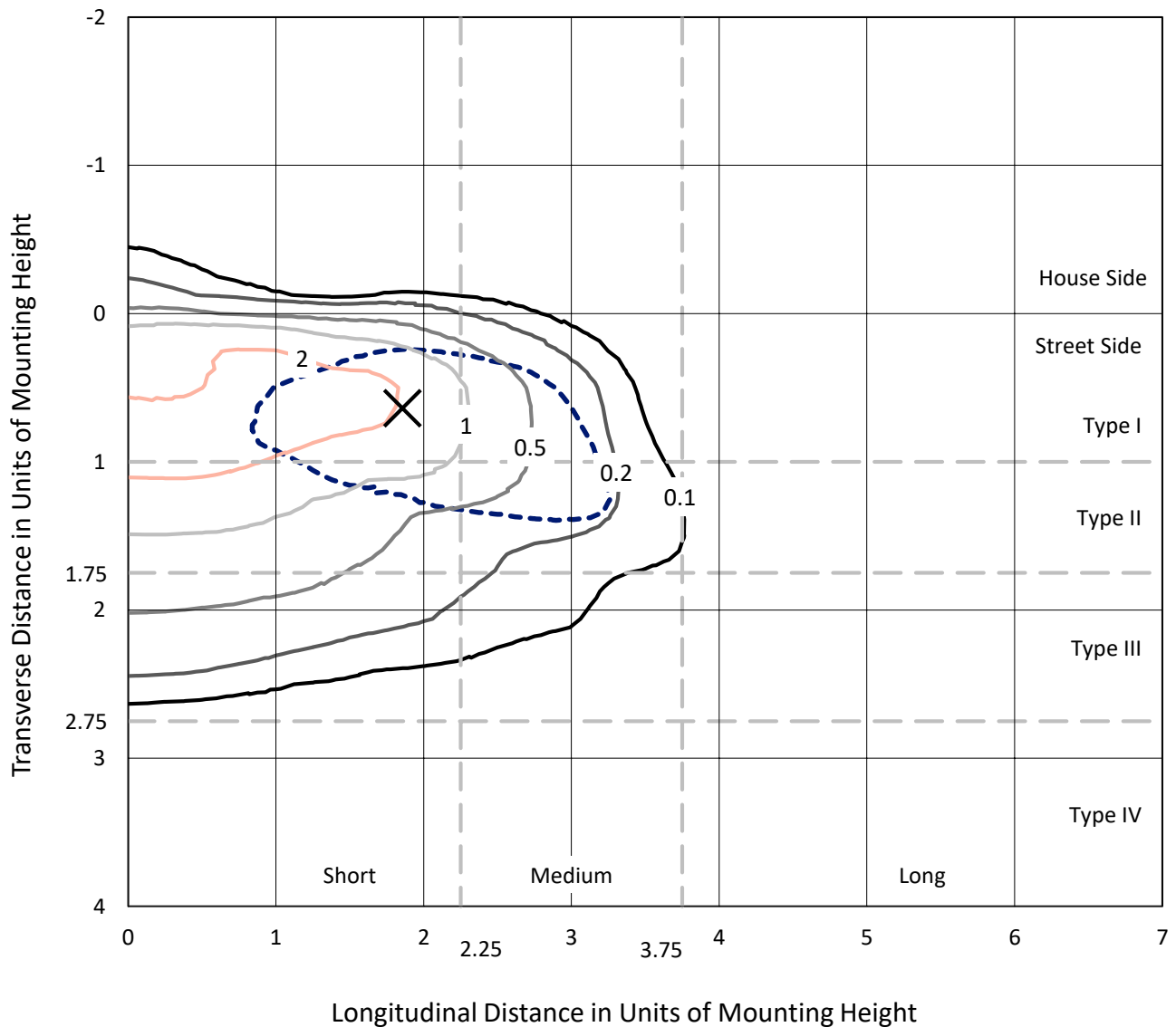
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

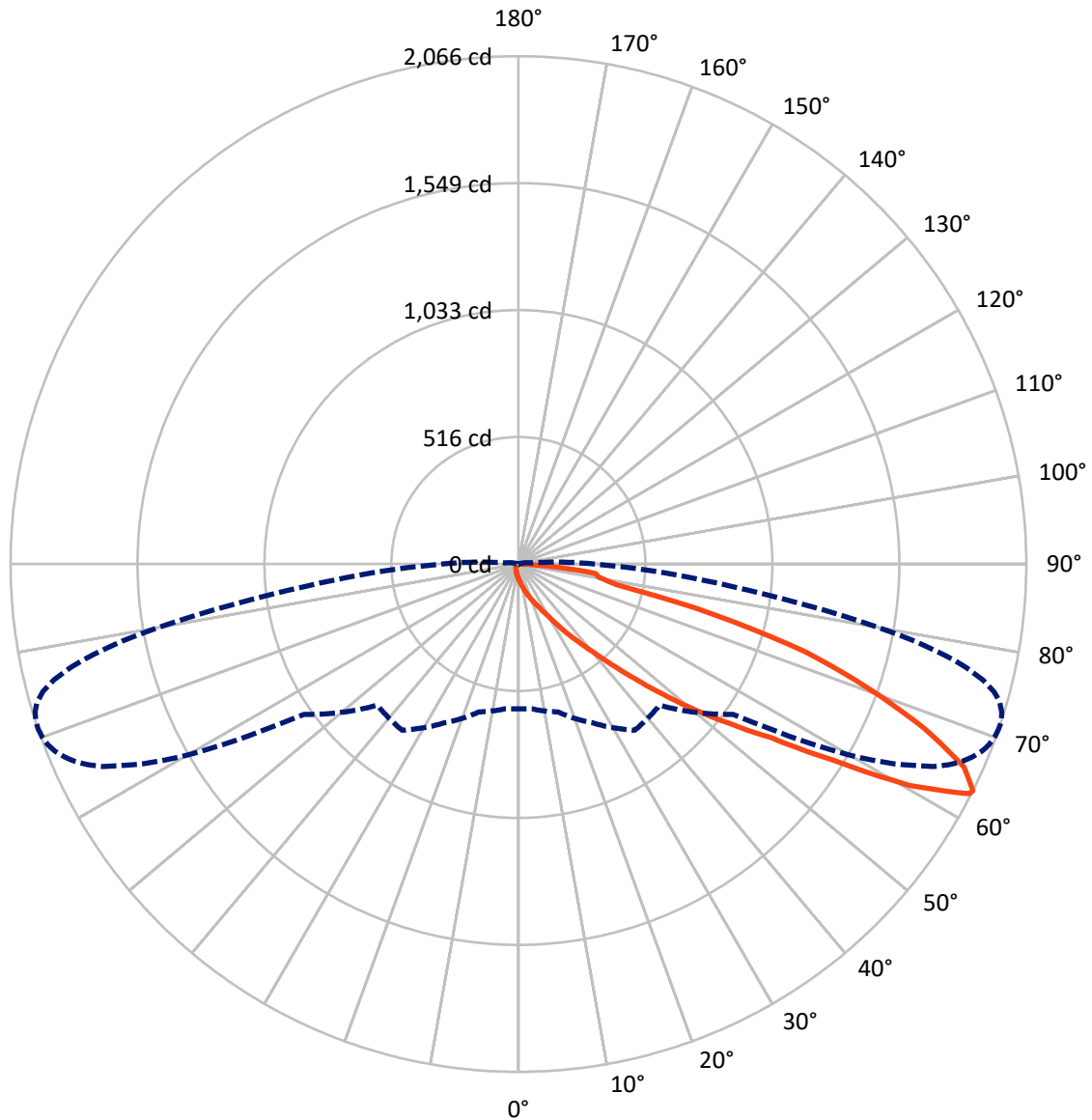
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 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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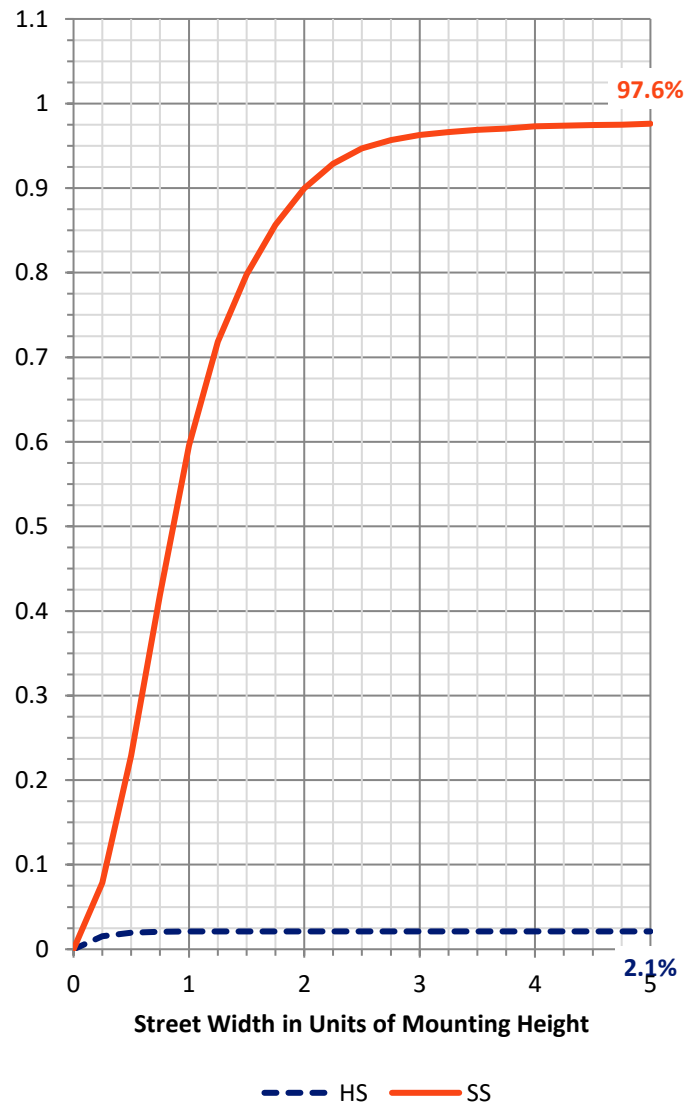
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32.9	0.0	32.9
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	1514.7	0.0	1514.7
	% Fixture	97.9	0.0	97.9
Total	Lumens	1547.5	0.0	1547.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	0.4
10°-20°	25.4	1.6
20°-30°	51.7	3.3
30°-40°	126.3	8.2
40°-50°	282.4	18.2
50°-60°	397.1	25.7
60°-70°	466.9	30.2
70°-80°	168.6	10.9
80°-90°	22.5	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°	1547.5	100.0
0°-180°	1547.5	100.0



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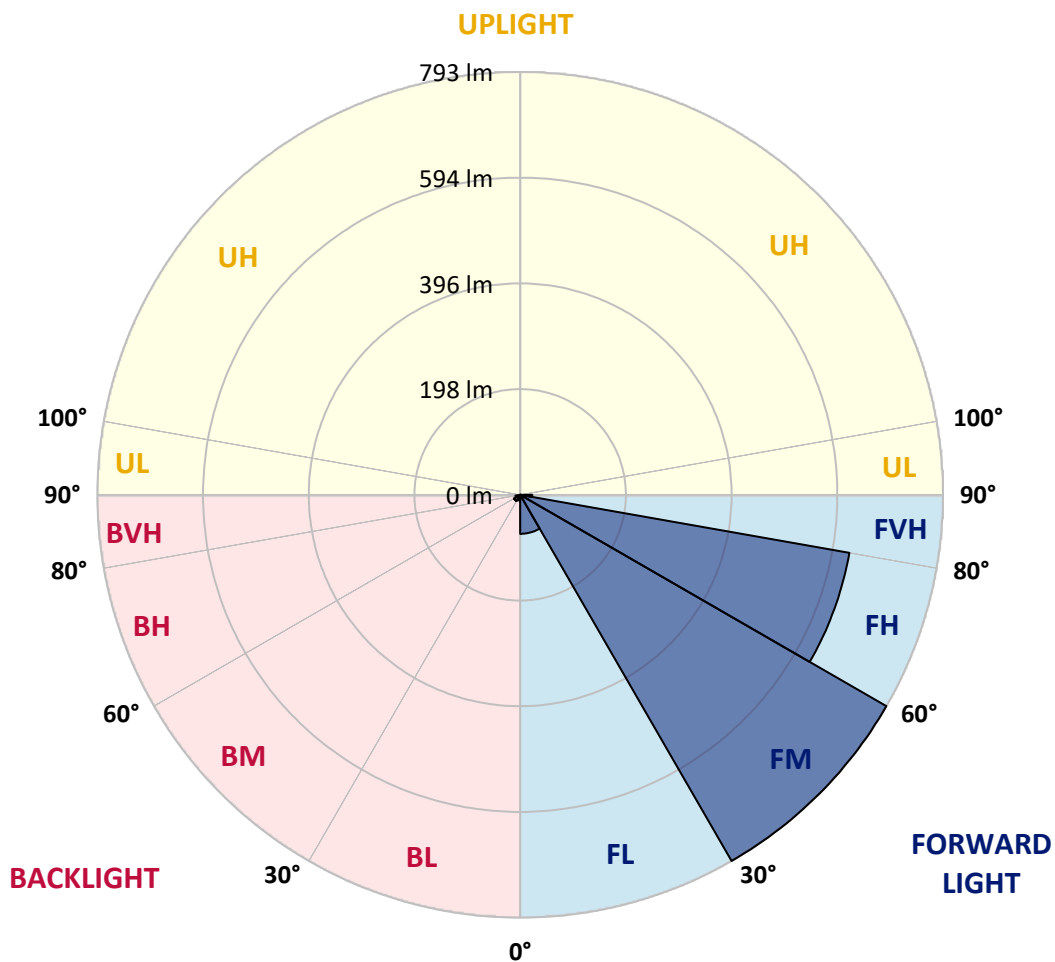
CATALOG NUMBER: VWM-E01-LED-E1-SL2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	73.1	4.7			
FM	(30°-60°)	792.5	51.2			
FH	(60°-80°)	626.5	40.5			G0/660
FVH	(80°-90°)	22.5	1.5			G1/100
BL	(0°-30°)	10.6	0.7	B0/110		
BM	(30°-60°)	13.2	0.9	B0/220		
BH	(60°-80°)	9.0	0.6	B0/110		G0/110
BVH	(80°-90°)	0.0	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
2.5°	77.6	78.5	77.9	76.5	74.8	72.6	70.6	70.6	70.3	69.5	69.8
5°	101.8	102.1	101.0	97.6	94.5	89.7	84.4	83.8	83.3	82.4	82.1
7.5°	125.5	126.6	125.5	121.8	115.6	108.3	99.9	99.0	97.3	97.3	96.2
10°	149.7	149.7	148.5	144.3	138.7	128.3	117.6	116.2	114.2	113.7	112.0
12.5°	166.8	166.8	166.3	164.0	159.5	150.2	137.3	135.9	133.4	132.5	130.5
15°	173.6	173.6	173.9	175.8	176.1	171.9	158.4	157.3	154.7	152.5	151.6
17.5°	177.8	177.5	177.5	180.3	185.4	188.2	179.5	178.4	175.6	174.4	171.6
20°	187.1	186.5	184.8	184.8	189.6	199.5	199.5	199.2	196.1	195.2	193.8
22.5°	200.9	200.3	195.2	191.0	193.3	205.7	217.2	216.6	215.5	214.4	213.5
25°	223.4	221.4	212.7	200.3	198.3	211.6	230.7	232.1	232.9	232.9	233.5
27.5°	257.4	254.9	239.4	216.3	207.6	221.1	245.6	248.4	250.9	251.5	254.0
30°	304.7	300.2	278.0	244.2	224.2	235.2	267.5	270.6	274.3	275.4	279.4
32.5°	382.3	379.8	358.4	307.8	265.0	262.8	298.2	302.1	306.9	308.9	313.7
35°	500.5	501.0	483.6	438.0	379.0	348.0	353.1	356.4	358.1	364.0	366.6
37.5°	580.7	582.1	586.0	568.0	525.8	494.3	454.6	458.3	449.6	450.4	450.7
40°	624.6	629.1	652.1	669.6	666.2	647.9	616.1	618.1	601.8	598.1	580.4
42.5°	653.8	659.7	696.6	750.6	778.2	794.8	787.4	786.6	773.9	769.2	754.2
45°	672.1	677.4	723.9	803.5	867.1	915.4	935.4	937.7	927.0	922.2	909.8
47.5°	671.3	677.4	727.2	823.2	916.9	994.2	1050.5	1053.3	1059.8	1055.6	1056.4
50°	634.1	640.0	690.1	789.7	902.2	1030.2	1133.2	1142.2	1152.6	1159.6	1163.0
52.5°	589.1	593.3	637.8	732.3	839.8	1015.3	1182.1	1197.6	1213.1	1226.3	1235.6
55°	572.5	577.3	612.2	690.7	789.7	952.9	1204.9	1227.7	1249.7	1271.3	1289.1
57.5°	581.2	585.7	610.8	671.0	759.9	887.0	1211.4	1246.9	1282.9	1318.0	1352.9
60°	613.3	618.1	639.5	689.3	752.0	849.1	1186.1	1244.9	1304.8	1366.1	1423.8
62.5°	600.6	602.6	634.1	721.3	808.3	816.7	1094.1	1176.2	1267.7	1362.2	1455.3
63°	588.5	590.8	622.9	712.6	825.4	811.9	1065.7	1152.3	1248.8	1350.7	1451.9
65°	533.7	534.0	558.4	629.3	806.3	820.4	939.1	1021.8	1132.6	1254.7	1382.7
67.5°	398.4	396.4	420.0	474.0	633.0	820.6	806.0	852.4	929.5	1037.8	1152.6
70°	141.2	138.1	176.4	251.2	394.4	671.3	692.6	695.7	717.1	775.6	847.6
72.5°	45.9	46.7	56.3	92.0	181.7	451.8	627.1	617.5	611.9	611.6	621.2
75°	18.3	18.6	22.5	40.8	81.6	217.7	549.2	554.5	556.5	559.3	562.4
77.5°	8.7	9.6	12.7	22.8	40.5	107.7	393.0	438.3	464.2	484.2	496.3
80°	3.1	3.7	7.0	14.1	18.8	49.5	207.1	249.8	287.8	336.8	379.0
82.5°	0.0	0.0	1.4	9.8	10.4	20.0	85.0	99.6	113.9	147.7	189.6
85°	0.0	0.0	0.0	2.8	3.1	3.4	28.7	34.6	38.8	45.3	52.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	1.7	4.2	6.5
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°	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
2.5°	69.2	68.9	68.9	68.4	68.1	67.5	67.2	66.4	66.1	66.1	66.1
5°	81.9	80.7	80.2	78.8	77.9	77.6	76.2	75.7	74.8	75.1	73.7
7.5°	95.9	94.0	93.1	91.2	90.6	88.6	88.1	86.6	85.8	84.1	83.6
10°	111.4	108.9	107.5	104.4	103.5	102.1	100.4	98.7	97.3	95.7	94.8
12.5°	129.1	126.9	125.8	121.5	119.6	117.6	115.3	113.1	110.8	109.4	107.5
15°	149.9	146.3	145.2	141.2	137.9	135.3	132.2	129.4	127.7	124.9	122.9
17.5°	170.5	166.8	166.0	160.1	156.4	154.7	151.4	147.7	144.6	141.8	138.7
20°	191.0	188.5	186.2	180.6	176.7	173.9	169.4	165.7	163.2	159.2	155.3
22.5°	211.6	209.0	207.3	201.4	197.8	193.8	189.9	186.0	182.3	177.5	173.0
25°	232.7	231.0	230.1	224.8	221.4	217.7	213.8	209.3	204.8	199.5	194.7
27.5°	254.6	255.2	253.5	252.4	248.7	246.2	240.0	236.9	233.5	227.0	221.1
30°	282.5	284.1	283.6	284.4	282.2	280.5	275.7	271.8	267.8	261.6	254.9
32.5°	317.6	319.9	321.0	324.1	323.0	322.4	321.0	315.4	312.6	301.9	299.1
35°	371.9	370.8	375.6	378.1	377.0	376.4	374.7	371.6	368.3	360.7	353.6
37.5°	442.5	443.7	445.3	440.3	436.9	436.6	431.6	428.5	423.7	415.2	406.8
40°	571.9	564.9	557.0	535.7	526.4	521.0	506.1	501.9	493.7	482.2	473.5
42.5°	740.2	733.1	709.5	673.8	654.7	628.2	616.1	601.2	589.7	570.8	560.7
45°	907.3	887.0	884.2	842.6	819.0	784.1	762.4	737.4	711.2	686.4	668.4
47.5°	1048.2	1043.7	1030.0	1004.6	982.7	953.4	925.6	887.0	860.0	824.9	792.5
50°	1161.1	1160.8	1155.7	1141.1	1122.8	1099.2	1074.7	1042.0	1011.4	968.3	933.7
52.5°	1245.4	1250.0	1251.6	1247.1	1240.1	1219.3	1206.9	1179.6	1153.7	1117.2	1079.7
55°	1307.3	1323.9	1332.4	1341.9	1340.0	1332.7	1332.1	1314.4	1302.6	1273.6	1247.1
57.5°	1383.9	1411.2	1437.3	1483.7	1485.4	1501.7	1510.2	1518.6	1520.9	1509.3	1500.6
60°	1481.2	1536.9	1586.4	1683.5	1708.8	1748.7	1774.6	1802.8	1826.7	1828.6	1828.1
62.5°	1549.8	1635.7	1715.6	1859.6	1908.8	1955.0	1989.6	2016.9	2033.5	2050.3	2058.2
63°	1551.8	1645.8	1730.7	1879.3	1931.1	1974.9	2007.9	2033.2	2050.6	2060.7	2065.8
65°	1504.3	1618.2	1719.5	1867.5	1916.1	1960.3	1977.5	1994.1	2002.5	2006.4	1991.5
67.5°	1275.0	1386.4	1504.6	1670.0	1711.6	1764.5	1778.6	1787.0	1790.9	1790.1	1777.4
70°	953.4	1046.8	1178.2	1367.3	1422.4	1474.2	1506.2	1520.0	1524.5	1523.1	1504.3
72.5°	665.6	720.5	828.8	1039.2	1114.3	1180.7	1220.4	1240.9	1245.2	1236.7	1219.3
75°	559.0	561.8	586.3	701.4	771.7	842.6	887.3	900.3	891.8	866.2	821.8
77.5°	499.1	505.3	505.3	522.4	536.2	555.9	560.1	528.6	492.0	444.8	406.5
80°	418.6	440.3	455.5	468.1	469.5	465.6	455.2	437.5	409.3	373.3	333.4
82.5°	254.3	297.1	314.5	379.8	411.9	433.5	431.8	408.2	386.8	349.4	315.4
85°	64.1	69.2	75.1	97.6	109.4	133.6	148.8	155.9	158.4	145.4	131.7
87.5°	6.2	4.2	7.0	5.3	7.6	5.6	7.6	7.0	8.7	9.3	10.1
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°	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
2.5°	65.5	65.3	65.0	64.7	64.4	64.1	63.6	63.6	63.0	62.7	62.5
5°	72.9	72.3	72.0	71.5	70.6	70.1	69.2	68.1	67.2	67.0	66.4
7.5°	82.1	80.7	80.2	79.3	78.2	76.5	75.4	74.6	73.1	72.3	70.6
10°	92.6	91.2	89.5	87.8	86.1	84.1	82.7	81.6	79.3	78.2	76.2
12.5°	105.8	103.2	101.3	99.0	96.8	94.5	92.8	89.5	87.5	85.0	83.3
15°	119.3	117.0	114.8	112.0	108.6	104.9	103.2	100.2	97.6	93.7	91.4
17.5°	135.6	131.4	128.0	124.6	121.5	118.2	114.8	110.0	106.3	103.0	98.5
20°	151.6	146.6	142.9	138.4	133.9	128.6	124.6	121.3	116.2	111.7	106.9
22.5°	168.8	163.7	157.8	153.3	147.1	142.9	137.6	131.9	126.9	121.0	115.1
25°	189.6	184.3	177.5	171.6	164.6	158.7	152.2	145.7	139.5	132.8	125.2
27.5°	215.2	209.6	202.3	195.2	186.0	178.6	172.5	163.7	155.9	147.4	138.7
30°	247.6	241.4	232.4	222.3	213.0	204.8	196.1	184.6	175.8	165.7	154.5
32.5°	289.8	282.5	270.4	260.8	249.3	238.6	226.5	214.9	202.6	189.3	176.4
35°	342.9	336.2	322.1	308.1	295.4	282.7	267.5	254.3	236.9	220.8	204.2
37.5°	398.1	386.0	373.0	357.9	342.1	326.9	308.3	290.1	270.1	252.6	231.8
40°	461.1	446.5	435.8	419.5	397.2	375.6	358.4	335.6	310.6	287.2	262.8
42.5°	547.5	531.2	512.0	487.3	471.2	445.9	423.7	396.7	363.8	337.6	308.1
45°	647.3	625.1	606.5	582.6	563.2	531.7	505.8	469.8	436.9	402.6	366.6
47.5°	761.3	733.7	706.7	683.1	652.1	621.2	588.3	550.0	507.8	470.1	427.3
50°	892.1	853.0	815.6	785.2	742.7	707.0	671.3	628.2	581.5	538.2	489.5
52.5°	1037.5	992.3	942.7	896.0	846.8	800.9	757.9	708.4	656.3	603.5	549.2
55°	1213.1	1179.1	1120.8	1061.5	995.6	934.3	878.9	817.5	754.2	684.8	627.6
57.5°	1488.0	1471.4	1422.7	1363.3	1277.5	1203.0	1109.0	1033.9	942.2	846.5	772.8
60°	1860.4	1839.9	1812.6	1764.5	1696.4	1595.1	1491.6	1374.9	1235.3	1102.8	977.1
62.5°	2059.1	2051.7	2029.5	1996.3	1932.7	1852.8	1748.5	1620.2	1462.6	1301.7	1141.4
63°	2065.0	2055.7	2036.6	2002.8	1946.8	1869.4	1767.0	1642.4	1488.2	1324.2	1160.5
65°	1985.1	1981.4	1962.0	1925.1	1886.9	1827.8	1748.5	1641.3	1511.9	1356.9	1194.0
67.5°	1760.6	1749.6	1719.8	1708.5	1681.8	1640.7	1580.2	1506.5	1414.0	1292.2	1151.5
70°	1489.1	1472.8	1435.3	1415.4	1382.7	1356.9	1320.0	1267.4	1210.3	1125.3	1020.4
72.5°	1201.3	1167.5	1133.2	1081.2	1035.6	989.4	948.6	911.5	848.8	814.5	734.8
75°	780.1	718.8	660.0	581.2	510.3	447.6	386.5	355.6	291.2	265.0	227.6
77.5°	370.2	335.9	289.8	254.0	208.5	170.2	139.0	104.4	81.9	64.1	49.0
80°	298.8	269.8	241.9	209.6	175.3	139.8	107.2	80.2	56.8	39.4	27.9
82.5°	266.4	234.9	200.6	178.4	155.0	126.9	104.1	85.0	62.7	45.9	31.2
85°	103.5	87.2	67.2	54.9	42.8	35.2	31.8	21.9	17.2	13.5	10.4
87.5°	9.0	7.3	5.9	3.9	4.2	2.3	2.5	1.7	1.4	1.4	1.1
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°	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
2.5°	62.2	61.9	61.6	61.0	61.0	60.5	60.2	59.9	58.5	55.4	52.9
5°	65.3	64.7	64.1	63.3	62.7	61.9	61.3	60.5	57.4	51.5	46.4
7.5°	69.8	68.6	67.8	66.1	65.3	64.1	63.3	61.9	56.8	47.8	40.8
10°	75.1	73.1	71.7	69.8	68.1	66.7	65.3	63.3	56.3	43.9	35.7
12.5°	81.6	79.3	76.5	74.3	72.0	70.1	68.1	65.5	55.4	40.5	31.8
15°	88.1	84.7	82.7	79.6	76.5	73.7	70.9	68.6	55.7	36.9	28.4
17.5°	95.4	92.0	87.8	84.4	81.0	77.4	74.0	69.5	54.3	34.0	25.9
20°	102.4	97.6	93.7	89.5	84.7	80.2	76.0	72.0	53.2	31.2	23.6
22.5°	110.0	104.4	99.3	94.0	88.1	83.0	77.9	72.9	51.2	28.7	21.7
25°	119.3	112.8	105.5	99.0	92.8	86.6	80.2	74.0	49.2	26.4	20.3
27.5°	130.5	122.1	114.8	106.6	97.9	90.0	83.0	76.2	47.3	24.8	18.8
30°	144.9	135.0	124.6	114.2	104.9	95.9	86.1	77.6	45.3	23.1	17.4
32.5°	164.0	151.6	139.0	126.9	114.5	103.0	92.6	81.6	44.2	21.7	16.0
35°	189.3	173.3	157.8	142.6	127.7	113.7	100.2	87.8	44.2	20.0	14.3
37.5°	213.2	194.7	175.0	156.1	138.4	122.1	106.1	91.2	41.9	18.6	12.9
40°	239.1	216.9	193.8	171.6	150.2	130.0	111.7	94.5	39.9	16.9	11.5
42.5°	278.8	250.7	220.6	194.7	169.1	144.0	121.3	101.0	37.4	15.2	10.1
45°	330.8	295.1	259.7	228.2	195.5	164.9	137.9	112.8	36.9	13.8	8.7
47.5°	386.5	344.3	302.7	262.5	224.2	188.5	156.1	126.0	36.9	12.4	7.6
50°	442.0	389.1	344.6	297.9	254.9	212.7	174.1	139.8	37.1	11.3	6.2
52.5°	492.0	435.5	385.7	331.7	284.1	235.2	193.3	153.3	36.6	9.8	5.1
55°	561.5	495.1	437.5	377.8	322.1	267.0	219.4	173.6	36.9	8.7	4.2
57.5°	689.5	611.6	542.1	463.9	399.8	328.6	270.9	215.2	40.2	7.3	3.1
60°	873.2	772.0	674.3	579.0	497.4	412.7	337.9	272.3	47.3	5.9	2.3
62.5°	996.8	864.2	747.8	642.6	547.8	459.1	377.5	303.0	52.0	4.8	1.4
63°	1009.4	872.4	755.4	646.8	550.0	461.4	379.2	305.2	52.3	4.5	1.4
65°	1033.3	886.5	759.6	647.6	547.8	458.3	378.1	305.0	52.9	3.7	1.1
67.5°	1006.0	864.8	735.1	623.4	528.1	440.0	364.0	293.7	52.6	2.5	0.8
70°	899.7	782.7	668.7	564.6	478.0	398.4	331.4	267.8	48.4	1.7	0.6
72.5°	660.6	580.9	492.6	417.5	360.1	299.1	255.2	201.2	37.4	1.1	0.3
75°	195.8	178.4	149.9	132.2	116.8	96.5	85.8	67.0	19.1	0.6	0.0
77.5°	39.1	35.4	31.8	29.0	27.3	23.4	22.2	18.3	7.9	0.3	0.0
80°	20.5	16.9	14.3	12.7	11.0	9.0	7.6	6.2	1.4	0.0	0.0
82.5°	19.7	13.2	9.6	7.9	6.8	5.3	4.2	3.1	0.8	0.0	0.0
85°	7.3	5.6	4.2	3.4	2.8	2.5	2.0	1.7	0.0	0.0	0.0
87.5°	1.1	0.8	0.8	0.6	0.6	0.3	0.3	0.3	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°	59.4	59.4	59.4	59.4	59.4	59.4	59.4
2.5°	50.4	48.1	47.0	45.6	45.6	45.3	45.9
5°	41.9	38.8	36.6	34.9	35.2	34.3	34.6
7.5°	35.4	32.4	30.4	29.3	29.0	28.7	28.7
10°	30.7	27.9	26.2	25.3	25.0	25.0	25.0
12.5°	27.3	24.5	23.1	22.5	22.5	22.2	22.2
15°	24.5	22.2	20.8	20.3	20.3	20.0	20.3
17.5°	22.2	20.0	18.8	18.3	18.3	18.0	18.0
20°	20.3	18.3	17.2	16.3	16.3	16.0	16.3
22.5°	18.6	16.6	15.2	14.6	14.3	14.1	14.3
25°	16.9	14.9	13.5	12.7	12.4	12.4	12.1
27.5°	15.5	13.5	11.8	11.0	10.7	10.7	10.4
30°	14.1	11.8	10.1	9.3	9.0	9.0	9.0
32.5°	12.7	10.1	8.7	7.9	7.6	7.6	7.6
35°	11.3	8.7	7.3	6.5	6.2	6.2	6.2
37.5°	9.6	7.3	5.6	5.1	4.8	4.5	4.5
40°	8.2	5.6	4.2	3.7	3.1	3.1	3.1
42.5°	6.8	4.5	3.1	2.3	2.0	1.7	2.0
45°	5.6	3.4	2.0	1.1	0.8	0.8	0.8
47.5°	4.5	2.3	0.8	0.3	0.3	0.3	0.3
50°	3.4	1.4	0.3	0.0	0.0	0.3	0.3
52.5°	2.5	0.8	0.0	0.0	0.0	0.0	0.0
55°	1.4	0.3	0.0	0.0	0.0	0.0	0.0
57.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.3	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.3	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)