

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: P149368

Luminaire Tested: **VWM-E03-LED-E1-SL2-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149368
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-E03-LED-E1-SL2-HSS-8030
Description: VISION WALL MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4642.6 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

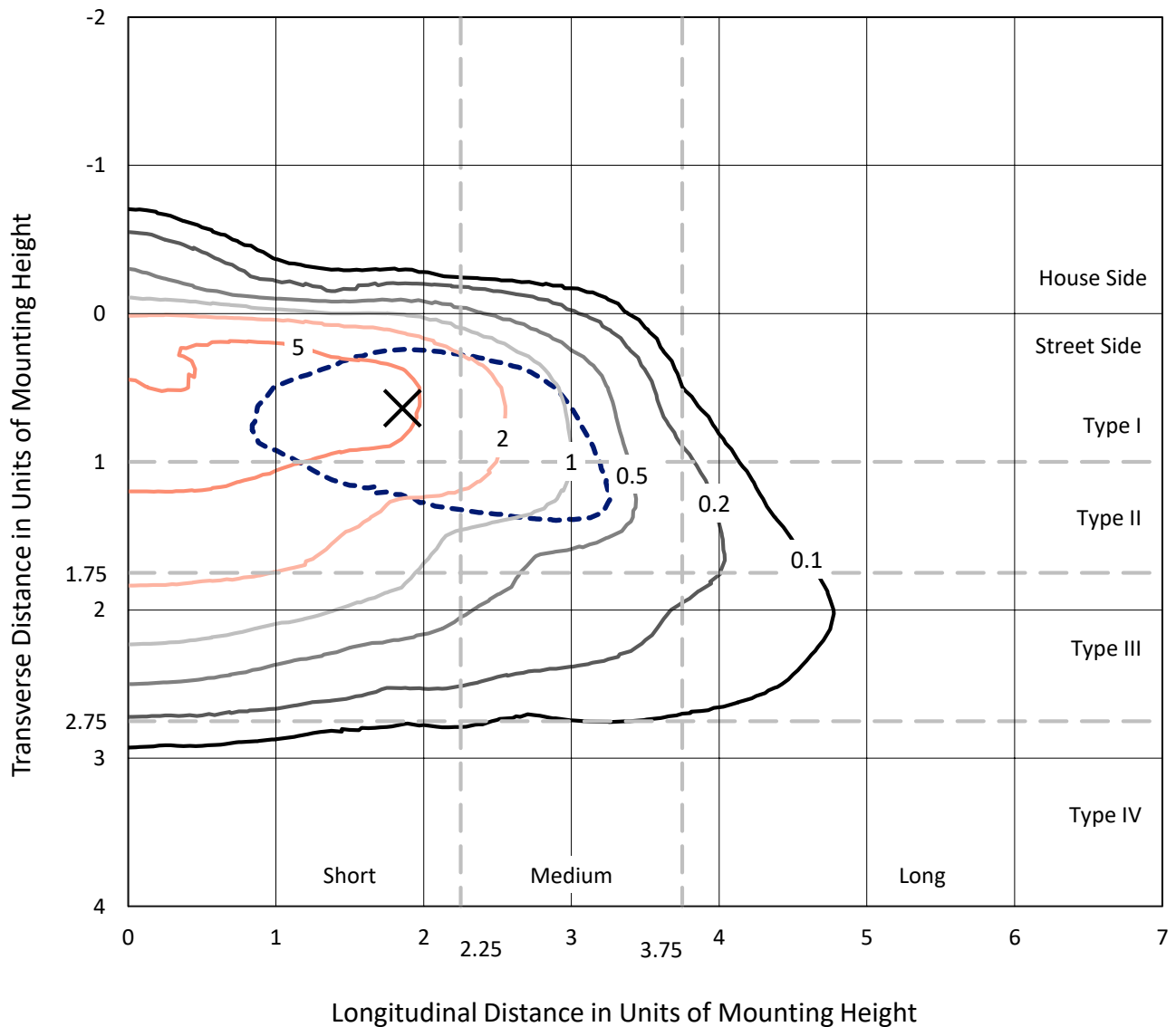
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

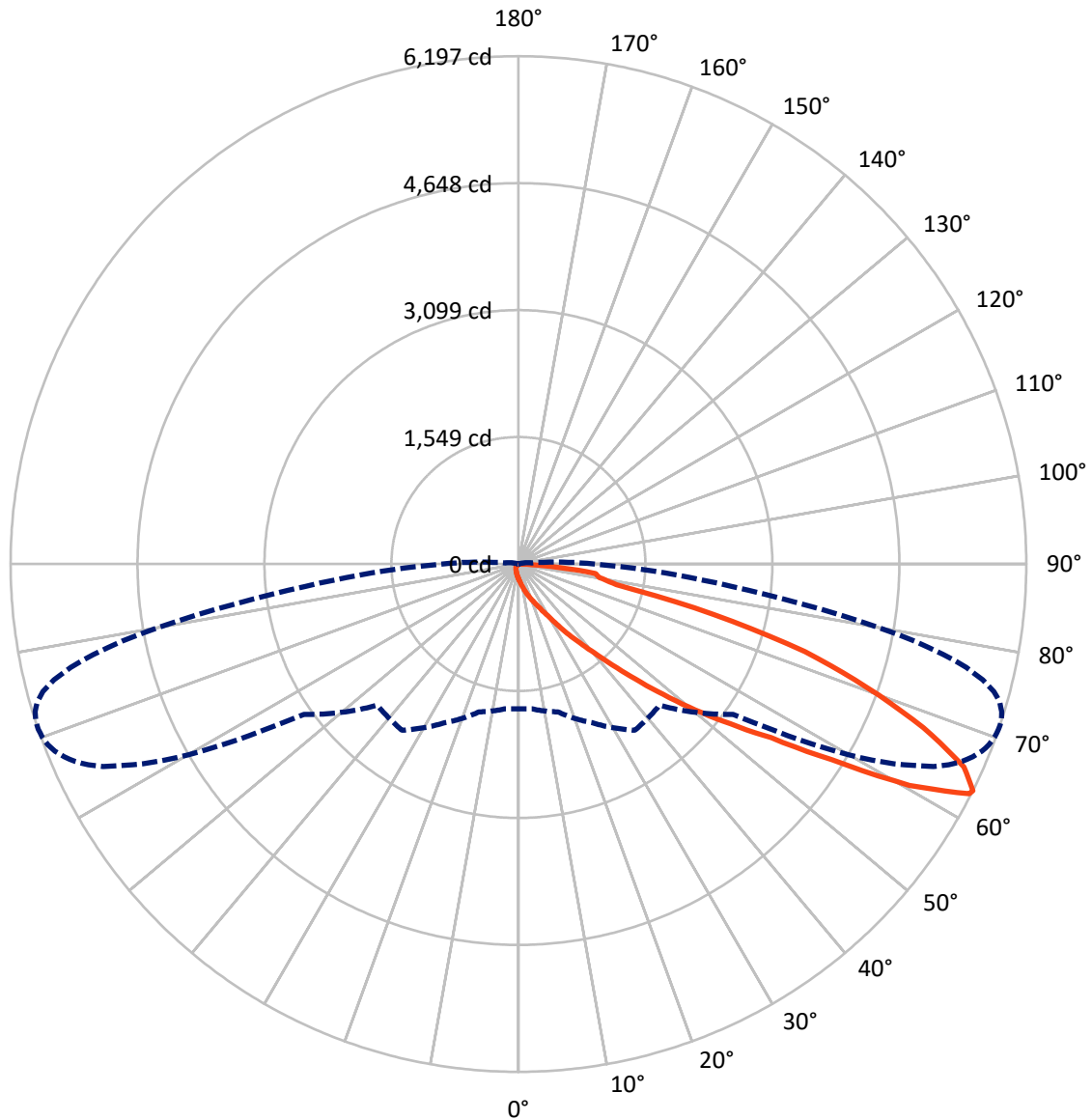
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.8 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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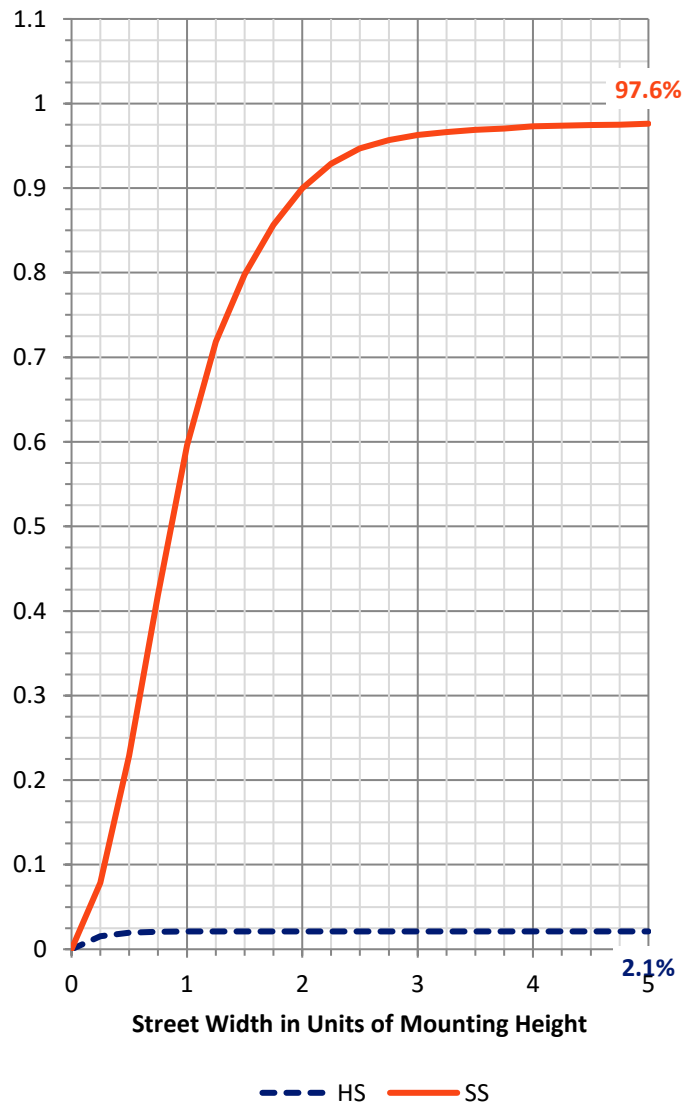
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	98.6	0.0	98.6
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	4544.0	0.0	4544.0
	% Fixture	97.9	0.0	97.9
Total	Lumens	4642.6	0.0	4642.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.7	0.4
10°-20°	76.3	1.6
20°-30°	155.0	3.3
30°-40°	378.8	8.2
40°-50°	847.2	18.2
50°-60°	1191.2	25.7
60°-70°	1400.8	30.2
70°-80°	505.8	10.9
80°-90°	67.6	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°	4642.6	100.0
0°-180°	4642.6	100.0



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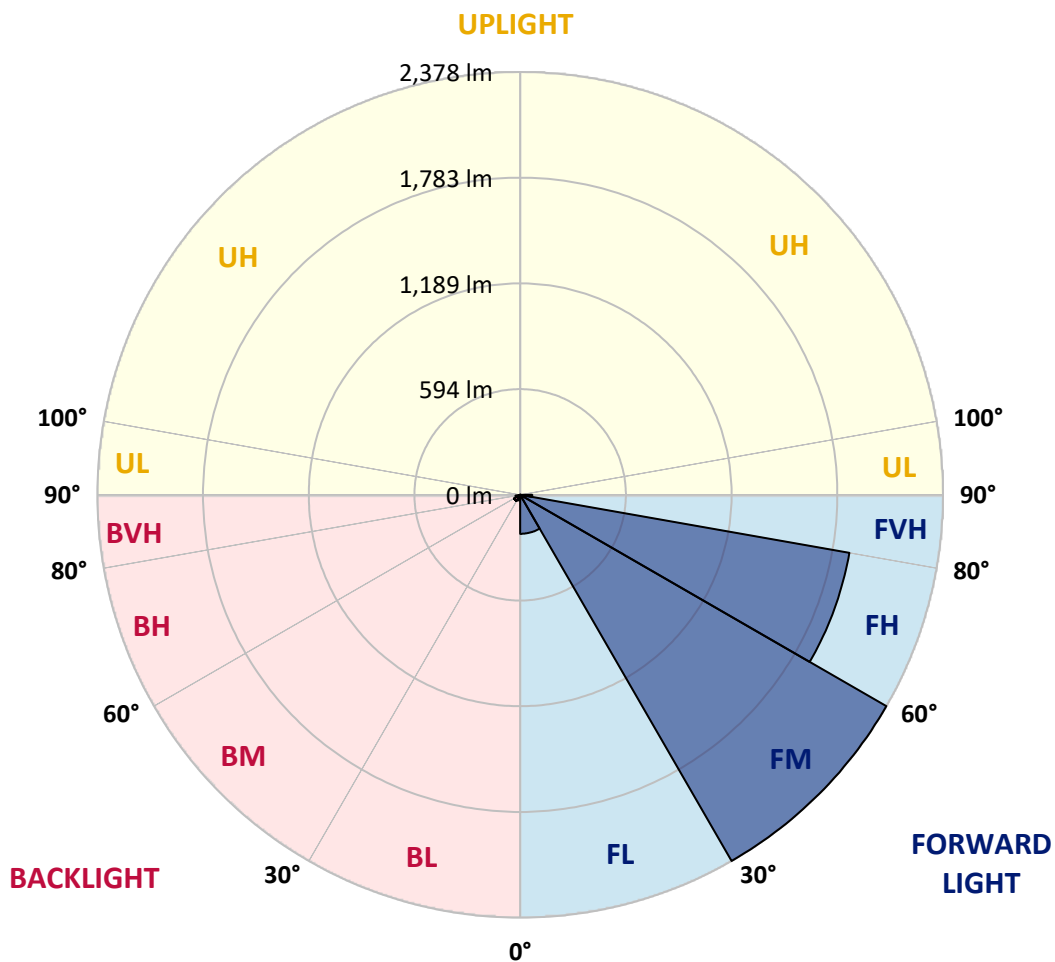
CATALOG NUMBER: VWM-E03-LED-E1-SL2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	219.4	4.7			
FM	(30°-60°)	2377.5	51.2			
FH	(60°-80°)	1879.6	40.5			G2/5000
FVH	(80°-90°)	67.5	1.5			G1/100
BL	(0°-30°)	31.7	0.7	B0/110		
BM	(30°-60°)	39.7	0.9	B0/220		
BH	(60°-80°)	27.0	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	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°	178.1	178.1	178.1	178.1	178.1	178.1	178.1	178.1	178.1	178.1	178.1
2.5°	232.9	235.5	233.8	229.6	224.5	217.7	211.8	211.8	211.0	208.5	209.3
5°	305.5	306.4	303.0	292.9	283.6	269.2	253.2	251.5	249.8	247.3	246.4
7.5°	376.4	379.8	376.4	365.4	346.9	324.9	299.6	297.1	292.0	292.0	288.6
10°	449.0	449.0	445.6	433.0	416.1	384.9	352.8	348.6	342.7	341.0	335.9
12.5°	500.5	500.5	498.8	492.0	478.5	450.7	411.9	407.6	400.1	397.5	391.6
15°	520.7	520.7	521.6	527.5	528.3	515.7	475.2	471.8	464.2	457.4	454.9
17.5°	533.4	532.6	532.6	541.0	556.2	564.6	538.5	535.1	526.7	523.3	514.8
20°	561.3	559.6	554.5	554.5	568.8	598.4	598.4	597.5	588.3	585.7	581.5
22.5°	602.6	600.9	585.7	573.1	579.8	617.0	651.6	649.9	646.5	643.1	640.6
25°	670.1	664.2	638.1	600.9	595.0	634.7	692.1	696.3	698.8	698.8	700.5
27.5°	772.3	764.7	718.2	649.0	622.9	663.4	736.8	745.2	752.8	754.5	762.1
30°	914.0	900.5	833.9	732.6	672.7	705.6	802.6	811.9	822.9	826.3	838.1
32.5°	1147.0	1139.4	1075.2	923.3	795.0	788.3	894.6	906.4	920.8	926.7	941.0
35°	1501.5	1503.1	1450.8	1314.1	1136.9	1044.0	1059.2	1069.3	1074.4	1092.1	1099.7
37.5°	1742.0	1746.2	1758.0	1704.0	1577.4	1482.9	1363.9	1374.9	1348.7	1351.2	1352.1
40°	1873.7	1887.2	1956.4	2008.7	1998.6	1943.7	1848.3	1854.2	1805.3	1794.3	1741.2
42.5°	1961.4	1979.2	2089.7	2251.8	2334.5	2384.3	2362.3	2359.8	2321.8	2307.5	2262.7
45°	2016.3	2032.3	2171.6	2410.4	2601.2	2746.3	2806.3	2813.0	2781.0	2766.6	2729.5
47.5°	2013.8	2032.3	2181.7	2469.5	2750.6	2982.7	3151.5	3159.9	3179.3	3166.7	3169.2
50°	1902.4	1920.1	2070.3	2369.1	2706.7	3090.7	3399.6	3426.6	3457.8	3478.9	3489.1
52.5°	1767.3	1780.0	1913.3	2196.9	2519.3	3046.0	3546.4	3592.9	3639.3	3679.0	3706.8
55°	1717.5	1731.9	1836.5	2072.0	2369.1	2858.6	3614.8	3683.2	3749.0	3814.0	3867.2
57.5°	1743.7	1757.2	1832.3	2012.9	2279.6	2661.1	3634.2	3740.6	3848.6	3954.1	4058.8
60°	1839.9	1854.2	1918.4	2067.8	2256.0	2547.2	3558.3	3734.7	3914.4	4098.4	4271.4
62.5°	1801.9	1807.8	1902.4	2164.0	2424.8	2450.1	3282.3	3528.7	3803.0	4086.6	4366.0
63°	1765.6	1772.4	1868.6	2137.8	2476.3	2435.8	3197.0	3457.0	3746.5	4052.0	4355.8
65°	1601.1	1601.9	1675.3	1888.0	2418.9	2461.1	2817.2	3065.4	3397.9	3764.2	4148.2
67.5°	1195.1	1189.2	1260.1	1422.1	1899.0	2461.9	2418.0	2557.3	2788.5	3113.5	3457.8
70°	423.7	414.4	529.2	753.7	1183.3	2013.8	2077.9	2087.2	2151.3	2326.9	2542.9
72.5°	137.6	140.1	168.8	276.0	545.2	1355.4	1881.3	1852.6	1835.7	1834.8	1863.5
75°	54.9	55.7	67.5	122.4	244.8	653.2	1647.5	1663.5	1669.4	1677.9	1687.1
77.5°	26.2	28.7	38.0	68.4	121.5	323.2	1179.1	1314.9	1392.6	1452.5	1488.8
80°	9.3	11.0	21.1	42.2	56.5	148.5	621.2	749.5	863.4	1010.3	1136.9
82.5°	0.0	0.0	4.2	29.5	31.2	59.9	254.9	298.8	341.8	443.1	568.8
85°	0.0	0.0	0.0	8.4	9.3	10.1	86.1	103.8	116.5	135.9	157.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.5	5.1	12.7	19.4
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	178.1	178.1	178.1	178.1	178.1	178.1	178.1	178.1	178.1	178.1	178.1
2.5°	207.6	206.8	206.8	205.1	204.2	202.6	201.7	199.2	198.3	198.3	198.3
5°	245.6	242.2	240.5	236.3	233.8	232.9	228.7	227.0	224.5	225.3	221.1
7.5°	287.8	281.9	279.4	273.5	271.8	265.9	264.2	259.9	257.4	252.4	250.7
10°	334.2	326.6	322.4	313.1	310.6	306.4	301.3	296.2	292.0	287.0	284.4
12.5°	387.4	380.6	377.3	364.6	358.7	352.8	346.0	339.3	332.5	328.3	322.4
15°	449.8	438.9	435.5	423.7	413.6	406.0	396.7	388.2	383.2	374.7	368.8
17.5°	511.5	500.5	498.0	480.2	469.3	464.2	454.1	443.1	433.8	425.4	416.1
20°	573.1	565.5	558.7	541.8	530.0	521.6	508.1	497.1	489.5	477.7	465.9
22.5°	634.7	627.1	622.0	604.3	593.3	581.5	569.7	557.9	546.9	532.6	519.1
25°	698.0	692.9	690.4	674.3	664.2	653.2	641.4	627.9	614.4	598.4	584.0
27.5°	763.8	765.5	760.4	757.1	746.1	738.5	719.9	710.6	700.5	681.1	663.4
30°	847.4	852.4	850.7	853.3	846.5	841.5	827.1	815.3	803.5	784.9	764.7
32.5°	952.9	959.6	963.0	972.3	968.9	967.2	963.0	946.1	937.7	905.6	897.2
35°	1115.8	1112.4	1126.7	1134.3	1130.9	1129.3	1124.2	1114.9	1104.8	1082.0	1060.9
37.5°	1327.6	1331.0	1336.0	1320.8	1310.7	1309.9	1294.7	1285.4	1271.1	1245.7	1220.4
40°	1715.8	1694.7	1671.1	1607.0	1579.1	1563.1	1518.3	1505.7	1481.2	1446.6	1420.4
42.5°	2220.5	2199.4	2128.5	2021.4	1964.0	1884.6	1848.3	1803.6	1769.0	1712.5	1682.1
45°	2721.9	2661.1	2652.7	2527.8	2456.9	2352.2	2287.2	2212.1	2133.6	2059.3	2005.3
47.5°	3144.7	3131.2	3089.9	3013.9	2948.1	2860.3	2776.7	2661.1	2580.1	2474.6	2377.5
50°	3483.2	3482.3	3467.1	3423.2	3368.4	3297.5	3224.0	3126.1	3034.1	2905.0	2801.2
52.5°	3736.3	3749.9	3754.9	3741.4	3720.3	3657.9	3620.7	3538.9	3461.2	3351.5	3239.2
55°	3922.0	3971.8	3997.1	4025.8	4019.9	3998.0	3996.3	3943.1	3907.7	3820.7	3741.4
57.5°	4151.6	4233.5	4311.9	4451.2	4456.3	4505.2	4530.5	4555.9	4562.6	4528.0	4501.8
60°	4443.6	4610.7	4759.3	5050.4	5126.4	5246.2	5323.9	5408.3	5480.0	5485.9	5484.3
62.5°	4649.5	4907.0	5146.7	5578.8	5726.5	5864.9	5968.7	6050.6	6100.4	6151.0	6174.6
63°	4655.5	4937.3	5192.2	5637.9	5793.2	5924.8	6023.6	6099.5	6151.8	6182.2	6197.4
65°	4512.8	4854.6	5158.5	5602.4	5748.4	5880.9	5932.4	5982.2	6007.5	6019.3	5974.6
67.5°	3825.0	4159.2	4513.7	5009.9	5134.8	5293.5	5335.7	5361.0	5372.8	5370.3	5332.3
70°	2860.3	3140.5	3534.6	4101.8	4267.2	4422.5	4518.7	4560.1	4573.6	4569.4	4512.8
72.5°	1996.9	2161.5	2486.4	3117.7	3343.0	3542.2	3661.2	3722.8	3735.5	3710.2	3657.9
75°	1677.0	1685.4	1758.9	2104.1	2315.1	2527.8	2661.9	2700.8	2675.5	2598.6	2465.3
77.5°	1497.2	1515.8	1515.8	1567.3	1608.6	1667.7	1680.4	1585.9	1476.1	1334.3	1219.6
80°	1255.9	1320.8	1366.4	1404.4	1408.6	1396.8	1365.6	1312.4	1228.0	1120.0	1000.1
82.5°	763.0	891.3	943.6	1139.4	1235.6	1300.6	1295.5	1224.6	1160.5	1048.2	946.1
85°	192.4	207.6	225.3	292.9	328.3	400.9	446.5	467.6	475.2	436.3	395.0
87.5°	18.6	12.7	21.1	16.0	22.8	16.9	22.8	21.1	26.2	27.9	30.4
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	178.1	178.1	178.1	178.1	178.1	178.1	178.1	178.1	178.1	178.1	178.1
2.5°	196.6	195.8	195.0	194.1	193.3	192.4	190.7	190.7	189.1	188.2	187.4
5°	218.6	216.9	216.1	214.4	211.8	210.2	207.6	204.2	201.7	200.9	199.2
7.5°	246.4	242.2	240.5	238.0	234.6	229.6	226.2	223.7	219.4	216.9	211.8
10°	277.7	273.5	268.4	263.3	258.3	252.4	248.1	244.8	238.0	234.6	228.7
12.5°	317.3	309.7	303.8	297.1	290.3	283.6	278.5	268.4	262.5	254.9	249.8
15°	357.9	351.1	344.3	335.9	325.8	314.8	309.7	300.5	292.9	281.0	274.3
17.5°	406.8	394.1	384.0	373.9	364.6	354.5	344.3	330.0	319.0	308.9	295.4
20°	454.9	439.7	428.7	415.2	401.7	385.7	373.9	363.8	348.6	335.1	320.7
22.5°	506.4	491.2	473.5	460.0	441.4	428.7	412.7	395.8	380.6	362.9	345.2
25°	568.8	552.8	532.6	514.8	493.7	476.0	456.6	437.2	418.6	398.4	375.6
27.5°	645.7	628.8	606.8	585.7	557.9	535.9	517.4	491.2	467.6	442.3	416.1
30°	742.7	724.1	697.1	666.8	638.9	614.4	588.3	553.7	527.5	497.1	463.4
32.5°	869.3	847.4	811.1	782.4	747.8	715.7	679.4	644.8	607.7	568.0	529.2
35°	1028.8	1008.6	966.4	924.2	886.2	848.2	802.6	763.0	710.6	662.5	612.7
37.5°	1194.2	1158.0	1119.1	1073.6	1026.3	980.7	925.0	870.2	810.2	757.9	695.4
40°	1383.3	1339.4	1307.3	1258.4	1191.7	1126.7	1075.2	1006.9	931.8	861.7	788.3
42.5°	1642.4	1593.5	1536.1	1461.8	1413.7	1337.7	1271.1	1190.0	1091.3	1012.8	924.2
45°	1942.0	1875.3	1819.6	1747.9	1689.7	1595.1	1517.5	1409.5	1310.7	1207.8	1099.7
47.5°	2283.8	2201.1	2120.1	2049.2	1956.4	1863.5	1764.8	1650.0	1523.4	1410.3	1282.0
50°	2676.3	2559.0	2446.7	2355.6	2228.1	2120.9	2013.8	1884.6	1744.5	1614.6	1468.5
52.5°	3112.6	2976.8	2828.2	2688.1	2540.4	2402.8	2273.7	2125.2	1969.0	1810.4	1647.5
55°	3639.3	3537.2	3362.5	3184.4	2986.9	2802.9	2636.6	2452.6	2262.7	2054.3	1882.9
57.5°	4463.9	4414.1	4268.1	4090.0	3832.6	3608.9	3327.0	3101.7	2826.5	2539.6	2318.4
60°	5581.3	5519.7	5437.8	5293.5	5089.3	4785.4	4474.8	4124.6	3706.0	3308.4	2931.2
62.5°	6177.2	6155.2	6088.6	5989.0	5798.2	5558.5	5245.4	4860.5	4387.9	3905.1	3424.1
63°	6194.9	6167.0	6109.7	6008.4	5840.4	5608.3	5301.1	4927.2	4464.7	3972.7	3481.5
65°	5955.2	5944.2	5886.0	5775.4	5660.6	5483.4	5245.4	4923.8	4535.6	4070.6	3581.9
67.5°	5281.7	5248.8	5159.3	5125.6	5045.4	4922.2	4740.7	4519.6	4241.9	3876.5	3454.5
70°	4467.2	4418.3	4306.0	4246.1	4148.2	4070.6	3960.0	3802.2	3630.8	3376.0	3061.2
72.5°	3603.8	3502.6	3399.6	3243.5	3106.7	2968.3	2845.9	2734.5	2546.3	2443.4	2204.5
75°	2340.4	2156.4	1980.0	1743.7	1531.0	1342.8	1159.6	1066.8	873.5	795.0	682.8
77.5°	1110.7	1007.7	869.3	762.1	625.4	510.6	416.9	313.1	245.6	192.4	146.9
80°	896.3	809.4	725.8	628.8	525.8	419.5	321.6	240.5	170.5	118.2	83.6
82.5°	799.3	704.7	601.8	535.1	465.0	380.6	312.3	254.9	188.2	137.6	93.7
85°	310.6	261.6	201.7	164.6	128.3	105.5	95.4	65.8	51.5	40.5	31.2
87.5°	27.0	21.9	17.7	11.8	12.7	6.8	7.6	5.1	4.2	4.2	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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	178.1	178.1	178.1	178.1	178.1	178.1	178.1	178.1	178.1	178.1	178.1
2.5°	186.5	185.7	184.8	183.1	183.1	181.5	180.6	179.8	175.6	166.3	158.7
5°	195.8	194.1	192.4	189.9	188.2	185.7	184.0	181.5	172.2	154.5	139.3
7.5°	209.3	205.9	203.4	198.3	195.8	192.4	189.9	185.7	170.5	143.5	122.4
10°	225.3	219.4	215.2	209.3	204.2	200.0	195.8	189.9	168.8	131.7	107.2
12.5°	244.8	238.0	229.6	222.8	216.1	210.2	204.2	196.6	166.3	121.5	95.4
15°	264.2	254.0	248.1	238.8	229.6	221.1	212.7	205.9	167.1	110.6	85.2
17.5°	286.1	276.0	263.3	253.2	243.1	232.1	222.0	208.5	162.9	102.1	77.6
20°	307.2	292.9	281.0	268.4	254.0	240.5	227.9	216.1	159.5	93.7	70.9
22.5°	330.0	313.1	297.9	281.9	264.2	249.0	233.8	218.6	153.6	86.1	65.0
25°	357.9	338.4	316.5	297.1	278.5	259.9	240.5	222.0	147.7	79.3	60.8
27.5°	391.6	366.3	344.3	319.9	293.7	270.1	249.0	228.7	141.8	74.3	56.5
30°	434.7	405.1	373.9	342.7	314.8	287.8	258.3	232.9	135.9	69.2	52.3
32.5°	492.0	454.9	416.9	380.6	343.5	308.9	277.7	244.8	132.5	65.0	48.1
35°	568.0	519.9	473.5	427.9	383.2	341.0	300.5	263.3	132.5	59.9	43.0
37.5°	639.7	584.0	525.0	468.4	415.2	366.3	318.2	273.5	125.8	55.7	38.8
40°	717.4	650.7	581.5	514.8	450.7	389.9	335.1	283.6	119.8	50.6	34.6
42.5°	836.4	752.0	661.7	584.0	507.2	432.1	363.8	303.0	112.3	45.6	30.4
45°	992.5	885.3	779.0	684.5	586.6	494.6	413.6	338.4	110.6	41.4	26.2
47.5°	1159.6	1033.0	908.1	787.4	672.7	565.5	468.4	378.1	110.6	37.1	22.8
50°	1325.9	1167.2	1033.9	893.8	764.7	638.1	522.4	419.5	111.4	33.8	18.6
52.5°	1476.1	1306.5	1157.1	995.1	852.4	705.6	579.8	460.0	109.7	29.5	15.2
55°	1684.6	1485.4	1312.4	1133.5	966.4	800.9	658.3	520.7	110.6	26.2	12.7
57.5°	2068.6	1834.8	1626.4	1391.7	1199.3	985.8	812.8	645.7	120.7	21.9	9.3
60°	2619.7	2315.9	2023.0	1736.9	1492.2	1238.1	1013.6	817.0	141.8	17.7	6.8
62.5°	2990.3	2592.7	2243.3	1927.7	1643.3	1377.4	1132.6	909.0	156.1	14.3	4.2
63°	3028.2	2617.2	2266.1	1940.3	1650.0	1384.1	1137.7	915.7	157.0	13.5	4.2
65°	3100.0	2659.4	2278.8	1942.9	1643.3	1374.9	1134.3	914.9	158.7	11.0	3.4
67.5°	3018.1	2594.4	2205.3	1870.3	1584.2	1320.0	1092.1	881.1	157.8	7.6	2.5
70°	2699.1	2348.0	2006.2	1693.9	1433.9	1195.1	994.2	803.5	145.2	5.1	1.7
72.5°	1981.7	1742.8	1477.8	1252.5	1080.3	897.2	765.5	603.5	112.3	3.4	0.8
75°	587.4	535.1	449.8	396.7	350.3	289.5	257.4	200.9	57.4	1.7	0.0
77.5°	117.3	106.3	95.4	86.9	81.9	70.1	66.7	54.9	23.6	0.8	0.0
80°	61.6	50.6	43.0	38.0	32.9	27.0	22.8	18.6	4.2	0.0	0.0
82.5°	59.1	39.7	28.7	23.6	20.3	16.0	12.7	9.3	2.5	0.0	0.0
85°	21.9	16.9	12.7	10.1	8.4	7.6	5.9	5.1	0.0	0.0	0.0
87.5°	3.4	2.5	2.5	1.7	1.7	0.8	0.8	0.8	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°	178.1	178.1	178.1	178.1	178.1	178.1	178.1
2.5°	151.1	144.3	140.9	136.7	136.7	135.9	137.6
5°	125.8	116.5	109.7	104.7	105.5	103.0	103.8
7.5°	106.3	97.1	91.2	87.8	86.9	86.1	86.1
10°	92.0	83.6	78.5	76.0	75.1	75.1	75.1
12.5°	81.9	73.4	69.2	67.5	67.5	66.7	66.7
15°	73.4	66.7	62.5	60.8	60.8	59.9	60.8
17.5°	66.7	59.9	56.5	54.9	54.9	54.0	54.0
20°	60.8	54.9	51.5	49.0	49.0	48.1	49.0
22.5°	55.7	49.8	45.6	43.9	43.0	42.2	43.0
25°	50.6	44.7	40.5	38.0	37.1	37.1	36.3
27.5°	46.4	40.5	35.4	32.9	32.1	32.1	31.2
30°	42.2	35.4	30.4	27.9	27.0	27.0	27.0
32.5°	38.0	30.4	26.2	23.6	22.8	22.8	22.8
35°	33.8	26.2	21.9	19.4	18.6	18.6	18.6
37.5°	28.7	21.9	16.9	15.2	14.3	13.5	13.5
40°	24.5	16.9	12.7	11.0	9.3	9.3	9.3
42.5°	20.3	13.5	9.3	6.8	5.9	5.1	5.9
45°	16.9	10.1	5.9	3.4	2.5	2.5	2.5
47.5°	13.5	6.8	2.5	0.8	0.8	0.8	0.8
50°	10.1	4.2	0.8	0.0	0.0	0.8	0.8
52.5°	7.6	2.5	0.0	0.0	0.0	0.0	0.0
55°	4.2	0.8	0.0	0.0	0.0	0.0	0.0
57.5°	2.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.8	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)