

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: P149394

Luminaire Tested: **VWM-F05-LED-E1-SL2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149394
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-F05-LED-E1-SL2-HSS-7030
Description: VISION WALL MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (35) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6912.5 lumens
Efficiency: N/A
Efficacy: 51.9 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

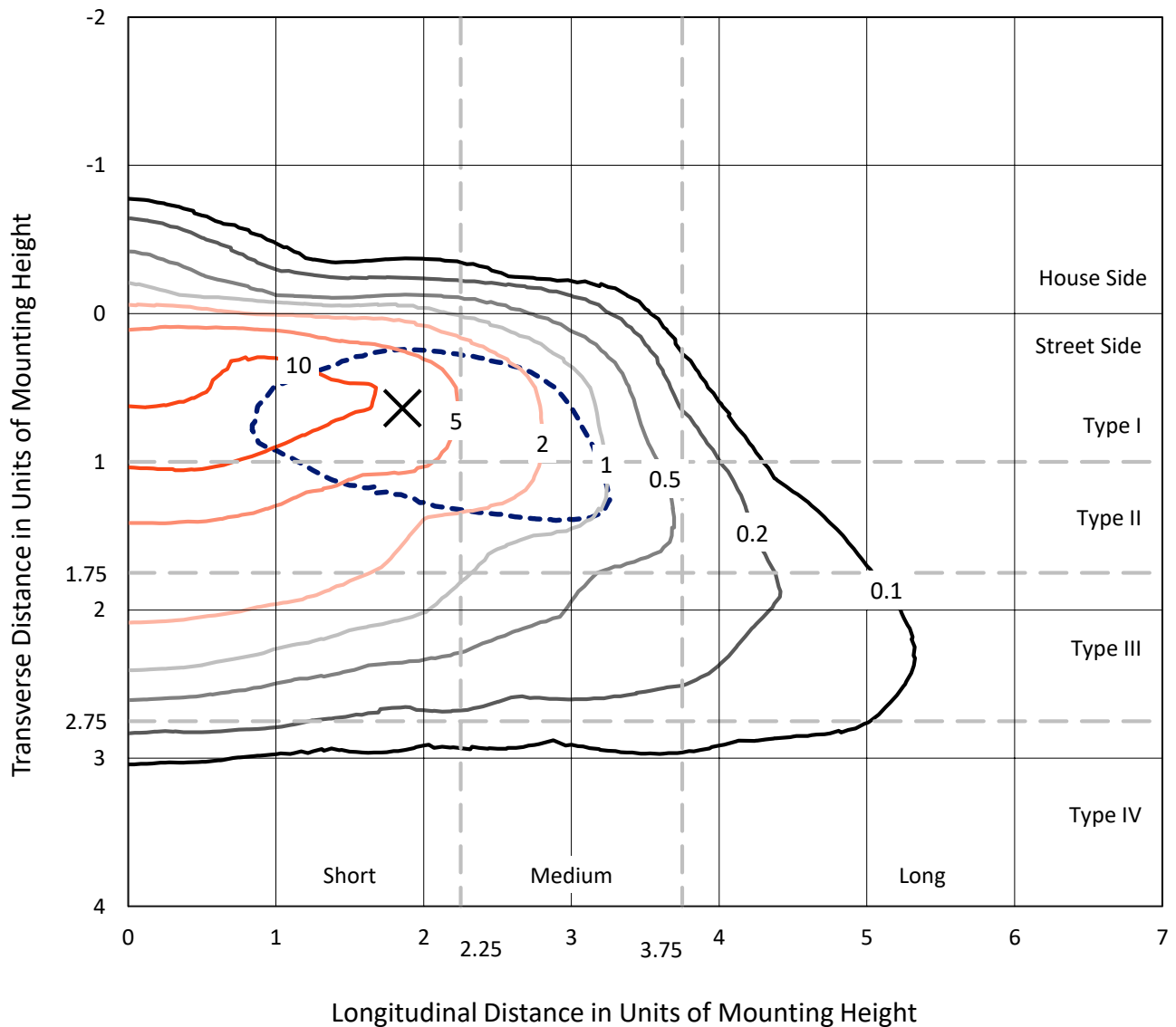
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

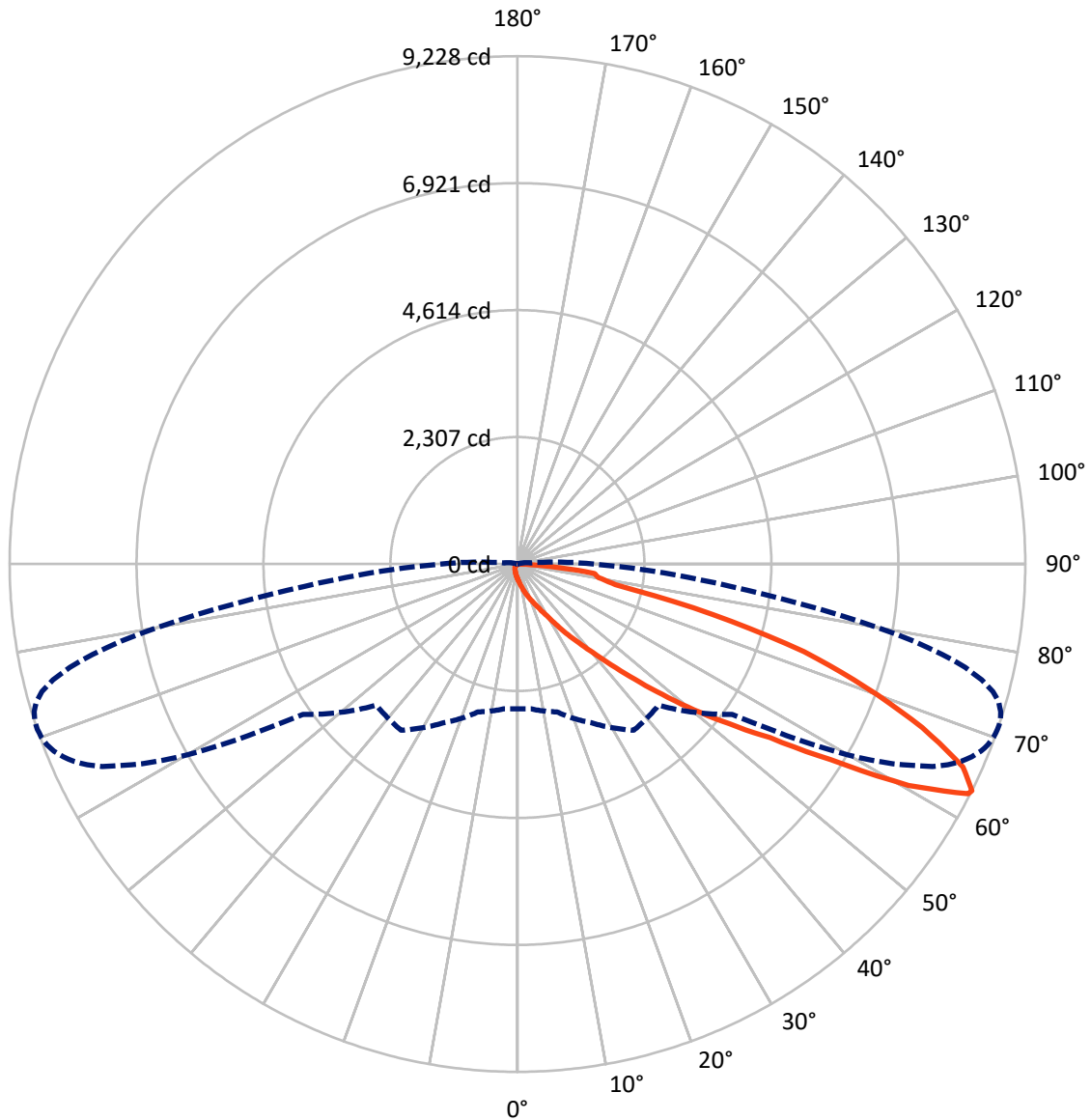
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 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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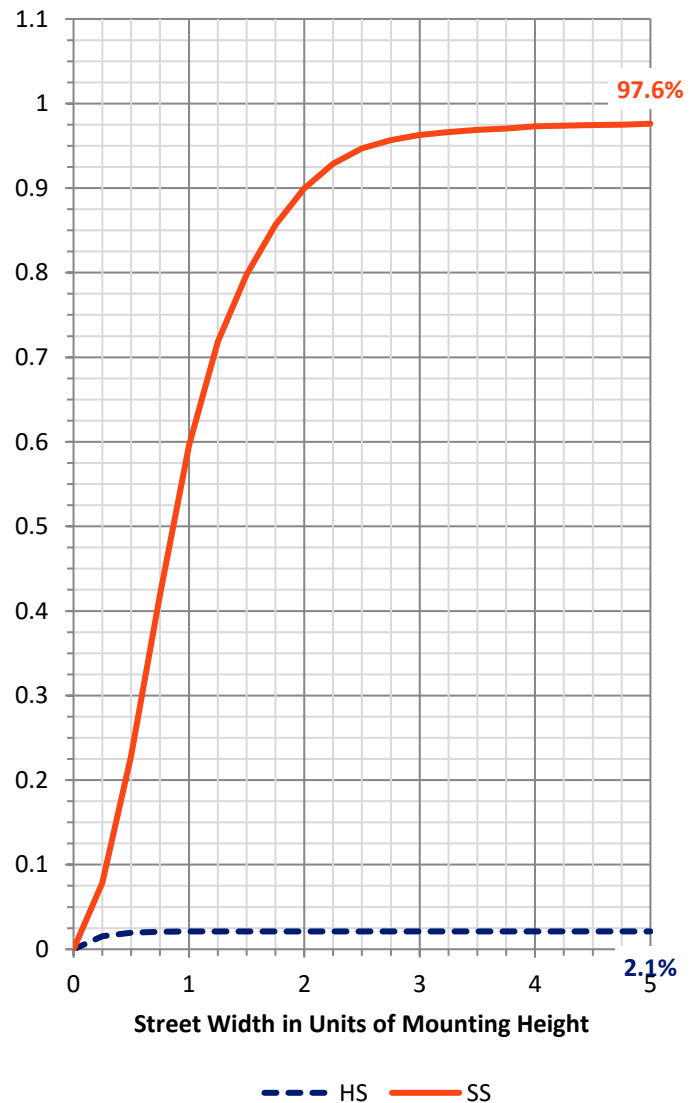
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	146.8	0.0	146.8
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	6765.8	0.0	6765.8
	% Fixture	97.9	0.0	97.9
Total	Lumens	6912.5	0.0	6912.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.3	0.4
10°-20°	113.7	1.6
20°-30°	230.9	3.3
30°-40°	564.0	8.2
40°-50°	1261.4	18.2
50°-60°	1773.7	25.7
60°-70°	2085.7	30.2
70°-80°	753.1	10.9
80°-90°	100.7	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°	6912.5	100.0
0°-180°	6912.5	100.0

Coefficient of Utilization



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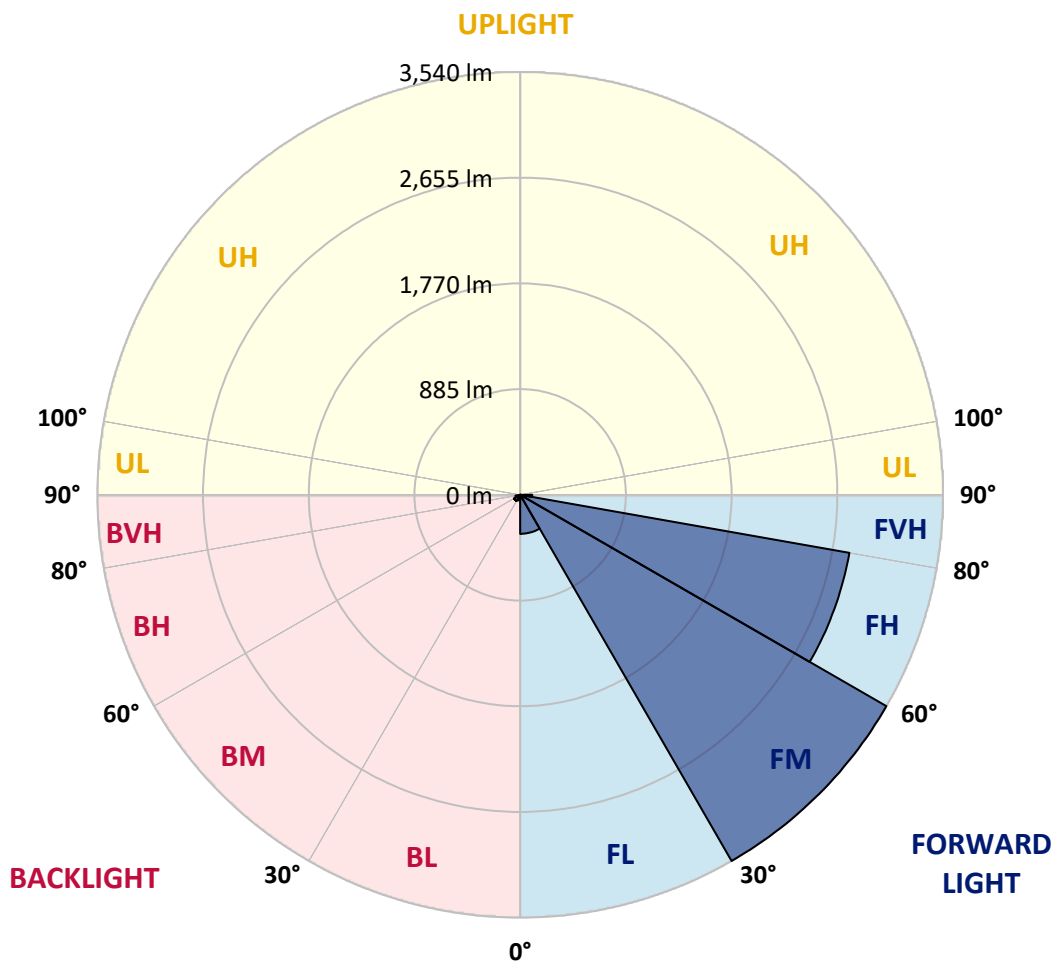
CATALOG NUMBER: VWM-F05-LED-E1-SL2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	326.6	4.7			
FM	(30°-60°)	3540.0	51.2			
FH	(60°-80°)	2798.6	40.5			G2/5000
FVH	(80°-90°)	100.5	1.5			G2/225
BL	(0°-30°)	47.2	0.7	B0/110		
BM	(30°-60°)	59.1	0.9	B0/220		
BH	(60°-80°)	40.2	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°	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2
2.5°	346.8	350.6	348.1	341.8	334.3	324.2	315.4	315.4	314.2	310.4	311.7
5°	454.9	456.2	451.1	436.1	422.2	400.9	377.0	374.5	372.0	368.2	366.9
7.5°	560.5	565.5	560.5	544.1	516.5	483.8	446.1	442.3	434.8	434.8	429.8
10°	668.5	668.5	663.5	644.7	619.5	573.0	525.3	519.0	510.2	507.7	500.1
12.5°	745.2	745.2	742.7	732.6	712.5	671.1	613.2	607.0	595.7	591.9	583.1
15°	775.4	775.4	776.6	785.4	786.7	767.8	707.5	702.5	691.2	681.1	677.3
17.5°	794.2	792.9	792.9	805.5	828.1	840.7	801.7	796.7	784.2	779.1	766.6
20°	835.7	833.2	825.6	825.6	847.0	891.0	891.0	889.7	875.9	872.1	865.8
22.5°	897.3	894.7	872.1	853.3	863.3	918.6	970.1	967.6	962.6	957.6	953.8
25°	997.8	989.0	950.0	894.7	885.9	945.0	1030.5	1036.7	1040.5	1040.5	1043.0
27.5°	1149.8	1138.5	1069.4	966.4	927.4	987.7	1097.1	1109.6	1120.9	1123.5	1134.8
30°	1361.0	1340.9	1241.6	1090.8	1001.6	1050.6	1195.1	1208.9	1225.2	1230.3	1247.9
32.5°	1707.8	1696.5	1601.0	1374.8	1183.8	1173.7	1332.1	1349.6	1371.0	1379.8	1401.2
35°	2235.6	2238.1	2160.2	1956.6	1692.7	1554.5	1577.1	1592.2	1599.7	1626.1	1637.4
37.5°	2593.7	2600.0	2617.6	2537.2	2348.7	2207.9	2030.8	2047.1	2008.1	2011.9	2013.2
40°	2789.8	2809.9	2912.9	2990.8	2975.8	2894.1	2752.1	2760.9	2688.0	2671.7	2592.5
42.5°	2920.5	2946.9	3111.5	3352.8	3475.9	3550.1	3517.4	3513.6	3457.1	3435.7	3369.1
45°	3002.2	3026.0	3233.4	3589.0	3873.0	4089.2	4178.4	4188.4	4140.7	4119.3	4064.0
47.5°	2998.4	3026.0	3248.5	3677.0	4095.4	4441.0	4692.4	4704.9	4733.8	4715.0	4718.7
50°	2832.5	2858.9	3082.6	3527.4	4030.1	4601.9	5061.8	5102.0	5148.5	5179.9	5195.0
52.5°	2631.4	2650.3	2848.8	3271.1	3751.1	4535.3	5280.5	5349.6	5418.7	5477.8	5519.2
55°	2557.3	2578.7	2734.5	3085.1	3527.4	4256.3	5382.3	5484.0	5582.1	5678.8	5758.0
57.5°	2596.3	2616.4	2728.2	2997.1	3394.2	3962.2	5411.2	5569.5	5730.4	5887.4	6043.3
60°	2739.5	2760.9	2856.4	3078.8	3359.0	3792.6	5298.1	5560.7	5828.4	6102.3	6359.9
62.5°	2683.0	2691.8	2832.5	3222.1	3610.4	3648.1	4887.1	5254.1	5662.5	6084.7	6500.7
63°	2628.9	2639.0	2782.2	3183.1	3687.0	3626.7	4760.2	5147.3	5578.3	6033.2	6485.6
65°	2383.9	2385.1	2494.5	2811.1	3601.6	3664.4	4194.7	4564.2	5059.3	5604.7	6176.5
67.5°	1779.4	1770.6	1876.2	2117.5	2827.5	3665.7	3600.3	3807.7	4152.0	4635.8	5148.5
70°	630.8	617.0	787.9	1122.2	1761.8	2998.4	3093.9	3107.7	3203.2	3464.6	3786.3
72.5°	204.8	208.6	251.3	410.9	811.8	2018.2	2801.1	2758.4	2733.2	2732.0	2774.7
75°	81.7	82.9	100.5	182.2	364.4	972.7	2453.0	2476.9	2485.7	2498.2	2512.1
77.5°	39.0	42.7	56.5	101.8	181.0	481.3	1755.5	1957.9	2073.5	2162.7	2216.7
80°	13.8	16.3	31.4	62.8	84.2	221.2	924.9	1115.9	1285.6	1504.2	1692.7
82.5°	0.0	0.0	6.3	44.0	46.5	89.2	379.5	444.9	508.9	659.7	847.0
85°	0.0	0.0	0.0	12.6	13.8	15.1	128.2	154.6	173.4	202.3	233.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.8	7.5	18.8	28.9
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°	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2
2.5°	309.1	307.9	307.9	305.4	304.1	301.6	300.3	296.6	295.3	295.3	295.3
5°	365.7	360.7	358.1	351.9	348.1	346.8	340.6	338.0	334.3	335.5	329.2
7.5°	428.5	419.7	416.0	407.2	404.6	395.8	393.3	387.0	383.3	375.7	373.2
10°	497.6	486.3	480.0	466.2	462.4	456.2	448.6	441.1	434.8	427.3	423.5
12.5°	576.8	566.8	561.7	542.9	534.1	525.3	515.2	505.2	495.1	488.8	480.0
15°	669.8	653.5	648.4	630.8	615.8	604.5	590.6	578.1	570.5	558.0	549.2
17.5°	761.5	745.2	741.4	715.0	698.7	691.2	676.1	659.7	645.9	633.4	619.5
20°	853.3	842.0	831.9	806.8	789.2	776.6	756.5	740.2	728.9	711.3	693.7
22.5°	945.0	933.7	926.2	899.8	883.4	865.8	848.2	830.6	814.3	792.9	772.8
25°	1039.3	1031.7	1027.9	1004.1	989.0	972.7	955.1	935.0	914.8	891.0	869.6
27.5°	1137.3	1139.8	1132.2	1127.2	1110.9	1099.6	1071.9	1058.1	1043.0	1014.1	987.7
30°	1261.7	1269.2	1266.7	1270.5	1260.4	1252.9	1231.5	1213.9	1196.3	1168.7	1138.5
32.5°	1418.8	1428.8	1433.8	1447.7	1442.6	1440.1	1433.8	1408.7	1396.1	1348.4	1335.8
35°	1661.3	1656.3	1677.6	1688.9	1683.9	1681.4	1673.9	1660.0	1645.0	1611.0	1579.6
37.5°	1976.7	1981.7	1989.3	1966.7	1951.6	1950.3	1927.7	1913.9	1892.5	1854.8	1817.1
40°	2554.8	2523.4	2488.2	2392.7	2351.2	2327.3	2260.7	2241.9	2205.4	2153.9	2115.0
42.5°	3306.3	3274.8	3169.3	3009.7	2924.2	2806.1	2752.1	2685.5	2634.0	2549.8	2504.5
45°	4052.7	3962.2	3949.7	3763.7	3658.1	3502.3	3405.5	3293.7	3176.8	3066.2	2985.8
47.5°	4682.3	4662.2	4600.6	4487.5	4389.5	4258.8	4134.4	3962.2	3841.6	3684.5	3540.0
50°	5186.2	5185.0	5162.3	5097.0	5015.3	4909.8	4800.4	4654.7	4517.7	4325.4	4170.8
52.5°	5563.2	5583.3	5590.9	5570.8	5539.3	5446.3	5391.1	5269.2	5153.5	4990.2	4823.0
55°	5839.7	5913.8	5951.5	5994.2	5985.5	5952.8	5950.3	5871.1	5818.3	5688.9	5570.8
57.5°	6181.5	6303.4	6420.3	6627.6	6635.1	6708.0	6745.7	6783.4	6793.5	6742.0	6703.0
60°	6616.3	6865.1	7086.3	7519.8	7632.9	7811.4	7927.0	8052.7	8159.5	8168.3	8165.7
62.5°	6922.9	7306.2	7663.1	8306.5	8526.4	8732.5	8887.1	9009.0	9083.1	9158.5	9193.7
63°	6931.7	7351.4	7730.9	8394.5	8625.7	8821.7	8968.8	9081.9	9159.8	9205.0	9227.6
65°	6719.3	7228.3	7680.7	8341.7	8559.1	8756.4	8833.0	8907.2	8944.9	8962.5	8895.9
67.5°	5695.2	6192.8	6720.6	7459.5	7645.5	7881.7	7944.6	7982.3	7999.9	7996.1	7939.6
70°	4258.8	4676.0	5262.9	6107.3	6353.7	6584.9	6728.1	6789.7	6809.8	6803.5	6719.3
72.5°	2973.2	3218.3	3702.1	4642.1	4977.6	5274.2	5451.4	5543.1	5562.0	5524.3	5446.3
75°	2497.0	2509.5	2618.9	3132.8	3447.0	3763.7	3963.5	4021.3	3983.6	3869.2	3670.7
77.5°	2229.3	2257.0	2257.0	2333.6	2395.2	2483.2	2502.0	2361.3	2197.9	1986.8	1815.9
80°	1869.9	1966.7	2034.5	2091.1	2097.4	2079.8	2033.3	1954.1	1828.4	1667.6	1489.1
82.5°	1136.0	1327.0	1404.9	1696.5	1839.7	1936.5	1929.0	1823.4	1727.9	1560.8	1408.7
85°	286.5	309.1	335.5	436.1	488.8	596.9	664.8	696.2	707.5	649.7	588.1
87.5°	27.6	18.8	31.4	23.9	33.9	25.1	33.9	31.4	39.0	41.5	45.2
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°	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2
2.5°	292.8	291.5	290.3	289.0	287.8	286.5	284.0	284.0	281.5	280.2	279.0
5°	325.5	323.0	321.7	319.2	315.4	312.9	309.1	304.1	300.3	299.1	296.6
7.5°	366.9	360.7	358.1	354.4	349.4	341.8	336.8	333.0	326.7	323.0	315.4
10°	413.4	407.2	399.6	392.1	384.5	375.7	369.5	364.4	354.4	349.4	340.6
12.5°	472.5	461.2	452.4	442.3	432.3	422.2	414.7	399.6	390.8	379.5	372.0
15°	532.8	522.8	512.7	500.1	485.1	468.7	461.2	447.4	436.1	418.5	408.4
17.5°	605.7	586.9	571.8	556.7	542.9	527.8	512.7	491.4	475.0	459.9	439.8
20°	677.3	654.7	638.4	618.3	598.2	574.3	556.7	541.6	519.0	498.9	477.5
22.5°	754.0	731.4	705.0	684.9	657.2	638.4	614.5	589.4	566.8	540.4	514.0
25°	847.0	823.1	792.9	766.6	735.1	708.8	679.9	650.9	623.3	593.1	559.2
27.5°	961.3	936.2	903.5	872.1	830.6	798.0	770.3	731.4	696.2	658.5	619.5
30°	1105.9	1078.2	1038.0	992.8	951.3	914.8	875.9	824.4	785.4	740.2	689.9
32.5°	1294.4	1261.7	1207.6	1164.9	1113.4	1065.6	1011.6	960.1	904.8	845.7	787.9
35°	1531.9	1501.7	1438.9	1376.0	1319.5	1262.9	1195.1	1136.0	1058.1	986.5	912.3
37.5°	1778.2	1724.1	1666.3	1598.5	1528.1	1460.2	1377.3	1295.6	1206.4	1128.5	1035.5
40°	2059.7	1994.3	1946.6	1873.7	1774.4	1677.6	1601.0	1499.2	1387.3	1283.0	1173.7
42.5°	2445.5	2372.6	2287.1	2176.5	2104.9	1991.8	1892.5	1771.9	1624.9	1508.0	1376.0
45°	2891.6	2792.3	2709.3	2602.5	2515.8	2375.1	2259.5	2098.6	1951.6	1798.3	1637.4
47.5°	3400.5	3277.4	3156.7	3051.2	2912.9	2774.7	2627.7	2456.8	2268.3	2099.9	1908.9
50°	3984.9	3810.2	3643.0	3507.3	3317.6	3158.0	2998.4	2806.1	2597.5	2404.0	2186.6
52.5°	4634.5	4432.2	4211.1	4002.4	3782.5	3577.7	3385.4	3164.3	2931.8	2695.5	2453.0
55°	5418.7	5266.6	5006.5	4741.4	4447.3	4173.4	3925.8	3651.8	3369.1	3058.7	2803.6
57.5°	6646.5	6572.3	6354.9	6089.8	5706.5	5373.5	4953.7	4618.2	4208.5	3781.3	3452.0
60°	8310.3	8218.5	8096.6	7881.7	7577.6	7125.2	6662.8	6141.3	5518.0	4926.1	4364.4
62.5°	9197.5	9164.8	9065.5	8917.2	8633.2	8276.3	7810.1	7237.1	6533.4	5814.5	5098.3
63°	9223.9	9182.4	9096.9	8946.1	8696.1	8350.5	7893.1	7336.4	6647.7	5915.1	5183.7
65°	8867.0	8850.6	8763.9	8599.3	8428.4	8164.5	7810.1	7331.3	6753.3	6060.9	5333.2
67.5°	7864.2	7815.1	7681.9	7631.7	7512.3	7328.8	7058.6	6729.4	6316.0	5771.8	5143.5
70°	6651.5	6578.6	6411.5	6322.2	6176.5	6060.9	5896.2	5661.2	5406.1	5026.6	4557.9
72.5°	5365.9	5215.1	5061.8	4829.3	4625.7	4419.7	4237.4	4071.6	3791.3	3638.0	3282.4
75°	3484.7	3210.8	2948.1	2596.3	2279.6	1999.3	1726.6	1588.4	1300.6	1183.8	1016.6
77.5°	1653.8	1500.4	1294.4	1134.8	931.2	760.3	620.8	466.2	365.7	286.5	218.7
80°	1334.6	1205.1	1080.7	936.2	782.9	624.6	478.8	358.1	253.8	175.9	124.4
82.5°	1190.1	1049.3	896.0	796.7	692.4	566.8	465.0	379.5	280.2	204.8	139.5
85°	462.4	389.6	300.3	245.0	191.0	157.1	142.0	98.0	76.7	60.3	46.5
87.5°	40.2	32.7	26.4	17.6	18.8	10.1	11.3	7.5	6.3	6.3	5.0
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2
2.5°	277.7	276.5	275.2	272.7	272.7	270.2	268.9	267.7	261.4	247.6	236.3
5°	291.5	289.0	286.5	282.7	280.2	276.5	274.0	270.2	256.4	230.0	207.3
7.5°	311.7	306.6	302.9	295.3	291.5	286.5	282.7	276.5	253.8	213.6	182.2
10°	335.5	326.7	320.4	311.7	304.1	297.8	291.5	282.7	251.3	196.0	159.6
12.5°	364.4	354.4	341.8	331.8	321.7	312.9	304.1	292.8	247.6	181.0	142.0
15°	393.3	378.3	369.5	355.6	341.8	329.2	316.7	306.6	248.8	164.6	126.9
17.5°	426.0	410.9	392.1	377.0	361.9	345.6	330.5	310.4	242.5	152.1	115.6
20°	457.4	436.1	418.5	399.6	378.3	358.1	339.3	321.7	237.5	139.5	105.6
22.5°	491.4	466.2	443.6	419.7	393.3	370.7	348.1	325.5	228.7	128.2	96.8
25°	532.8	503.9	471.2	442.3	414.7	387.0	358.1	330.5	219.9	118.1	90.5
27.5°	583.1	545.4	512.7	476.3	437.3	402.1	370.7	340.6	211.1	110.6	84.2
30°	647.2	603.2	556.7	510.2	468.7	428.5	384.5	346.8	202.3	103.0	77.9
32.5°	732.6	677.3	620.8	566.8	511.5	459.9	413.4	364.4	197.3	96.8	71.6
35°	845.7	774.1	705.0	637.1	570.5	507.7	447.4	392.1	197.3	89.2	64.1
37.5°	952.5	869.6	781.6	697.4	618.3	545.4	473.8	407.2	187.2	82.9	57.8
40°	1068.2	968.9	865.8	766.6	671.1	580.6	498.9	422.2	178.4	75.4	51.5
42.5°	1245.3	1119.7	985.2	869.6	755.3	643.4	541.6	451.1	167.1	67.9	45.2
45°	1477.8	1318.2	1159.9	1019.1	873.4	736.4	615.8	503.9	164.6	61.6	39.0
47.5°	1726.6	1538.1	1352.2	1172.5	1001.6	842.0	697.4	563.0	164.6	55.3	33.9
50°	1974.2	1738.0	1539.4	1330.8	1138.5	950.0	777.9	624.6	165.9	50.3	27.6
52.5°	2197.9	1945.3	1722.9	1481.6	1269.2	1050.6	863.3	684.9	163.4	44.0	22.6
55°	2508.3	2211.7	1954.1	1687.7	1438.9	1192.6	980.2	775.4	164.6	39.0	18.8
57.5°	3080.1	2732.0	2421.6	2072.2	1785.7	1467.8	1210.2	961.3	179.7	32.7	13.8
60°	3900.7	3448.3	3012.2	2586.2	2221.8	1843.5	1509.2	1216.4	211.1	26.4	10.1
62.5°	4452.3	3860.4	3340.2	2870.2	2446.7	2050.9	1686.4	1353.4	232.5	21.4	6.3
63°	4508.9	3896.9	3374.1	2889.1	2456.8	2060.9	1694.0	1363.5	233.7	20.1	6.3
65°	4615.7	3959.7	3393.0	2892.8	2446.7	2047.1	1688.9	1362.2	236.3	16.3	5.0
67.5°	4493.8	3863.0	3283.6	2784.7	2358.7	1965.4	1626.1	1311.9	235.0	11.3	3.8
70°	4018.8	3496.0	2987.1	2522.1	2135.1	1779.4	1480.3	1196.3	216.1	7.5	2.5
72.5°	2950.6	2595.0	2200.4	1864.9	1608.5	1335.8	1139.8	898.5	167.1	5.0	1.3
75°	874.6	796.7	669.8	590.6	521.5	431.0	383.3	299.1	85.5	2.5	0.0
77.5°	174.7	158.3	142.0	129.4	121.9	104.3	99.3	81.7	35.2	1.3	0.0
80°	91.7	75.4	64.1	56.5	49.0	40.2	33.9	27.6	6.3	0.0	0.0
82.5°	88.0	59.1	42.7	35.2	30.2	23.9	18.8	13.8	3.8	0.0	0.0
85°	32.7	25.1	18.8	15.1	12.6	11.3	8.8	7.5	0.0	0.0	0.0
87.5°	5.0	3.8	3.8	2.5	2.5	1.3	1.3	1.3	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°	265.2	265.2	265.2	265.2	265.2	265.2	265.2
2.5°	224.9	214.9	209.9	203.6	203.6	202.3	204.8
5°	187.2	173.4	163.4	155.8	157.1	153.3	154.6
7.5°	158.3	144.5	135.7	130.7	129.4	128.2	128.2
10°	137.0	124.4	116.9	113.1	111.8	111.8	111.8
12.5°	121.9	109.3	103.0	100.5	100.5	99.3	99.3
15°	109.3	99.3	93.0	90.5	90.5	89.2	90.5
17.5°	99.3	89.2	84.2	81.7	81.7	80.4	80.4
20°	90.5	81.7	76.7	72.9	72.9	71.6	72.9
22.5°	82.9	74.1	67.9	65.3	64.1	62.8	64.1
25°	75.4	66.6	60.3	56.5	55.3	55.3	54.0
27.5°	69.1	60.3	52.8	49.0	47.8	47.8	46.5
30°	62.8	52.8	45.2	41.5	40.2	40.2	40.2
32.5°	56.5	45.2	39.0	35.2	33.9	33.9	33.9
35°	50.3	39.0	32.7	28.9	27.6	27.6	27.6
37.5°	42.7	32.7	25.1	22.6	21.4	20.1	20.1
40°	36.4	25.1	18.8	16.3	13.8	13.8	13.8
42.5°	30.2	20.1	13.8	10.1	8.8	7.5	8.8
45°	25.1	15.1	8.8	5.0	3.8	3.8	3.8
47.5°	20.1	10.1	3.8	1.3	1.3	1.3	1.3
50°	15.1	6.3	1.3	0.0	0.0	1.3	1.3
52.5°	11.3	3.8	0.0	0.0	0.0	0.0	0.0
55°	6.3	1.3	0.0	0.0	0.0	0.0	0.0
57.5°	3.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.3	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)