

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: P149389

Luminaire Tested: **VWM-E05-LED-E1-SL2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149389
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-E05-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: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8373.5 lumens
Efficiency: N/A
Efficacy: 65.8 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

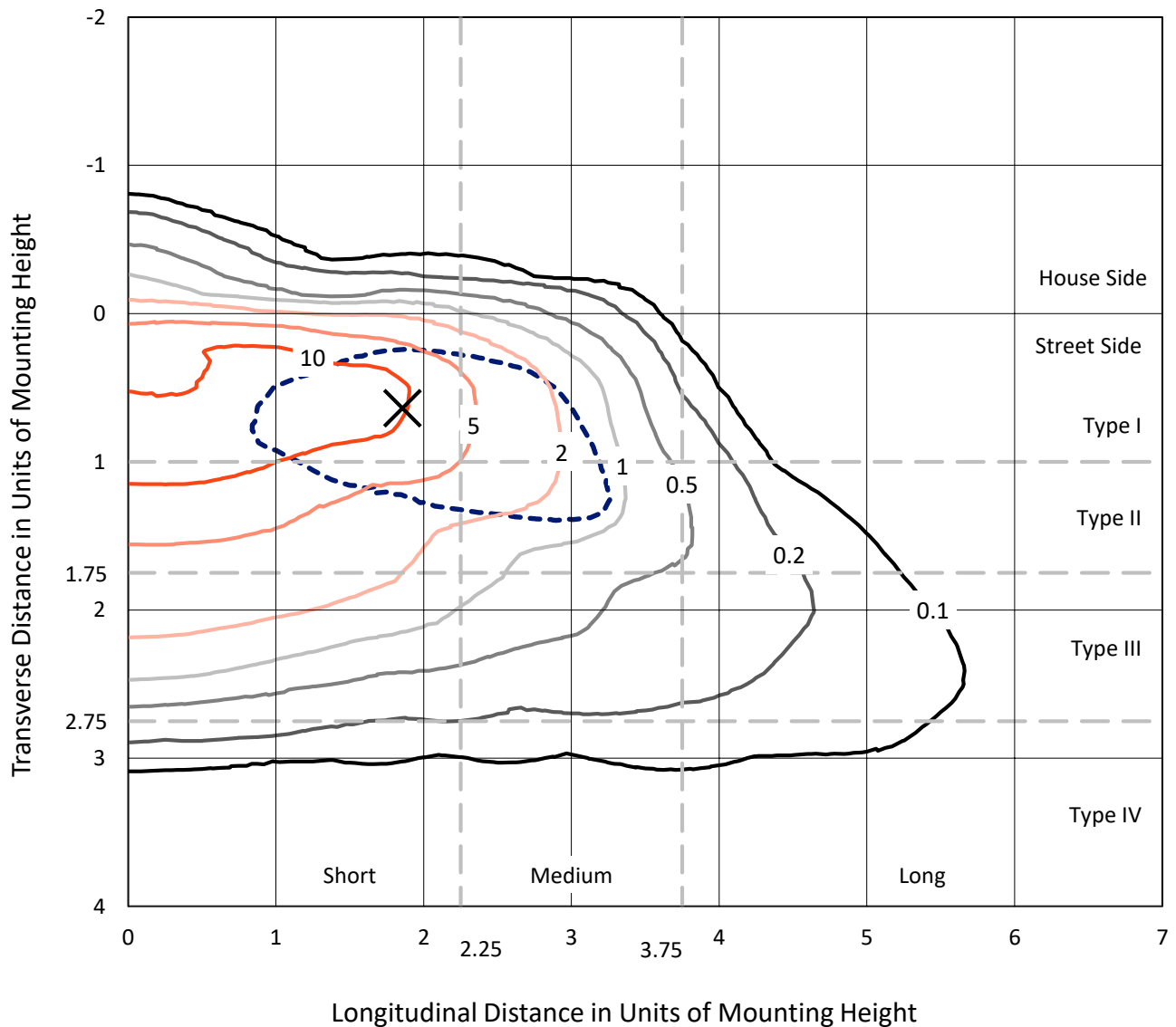
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

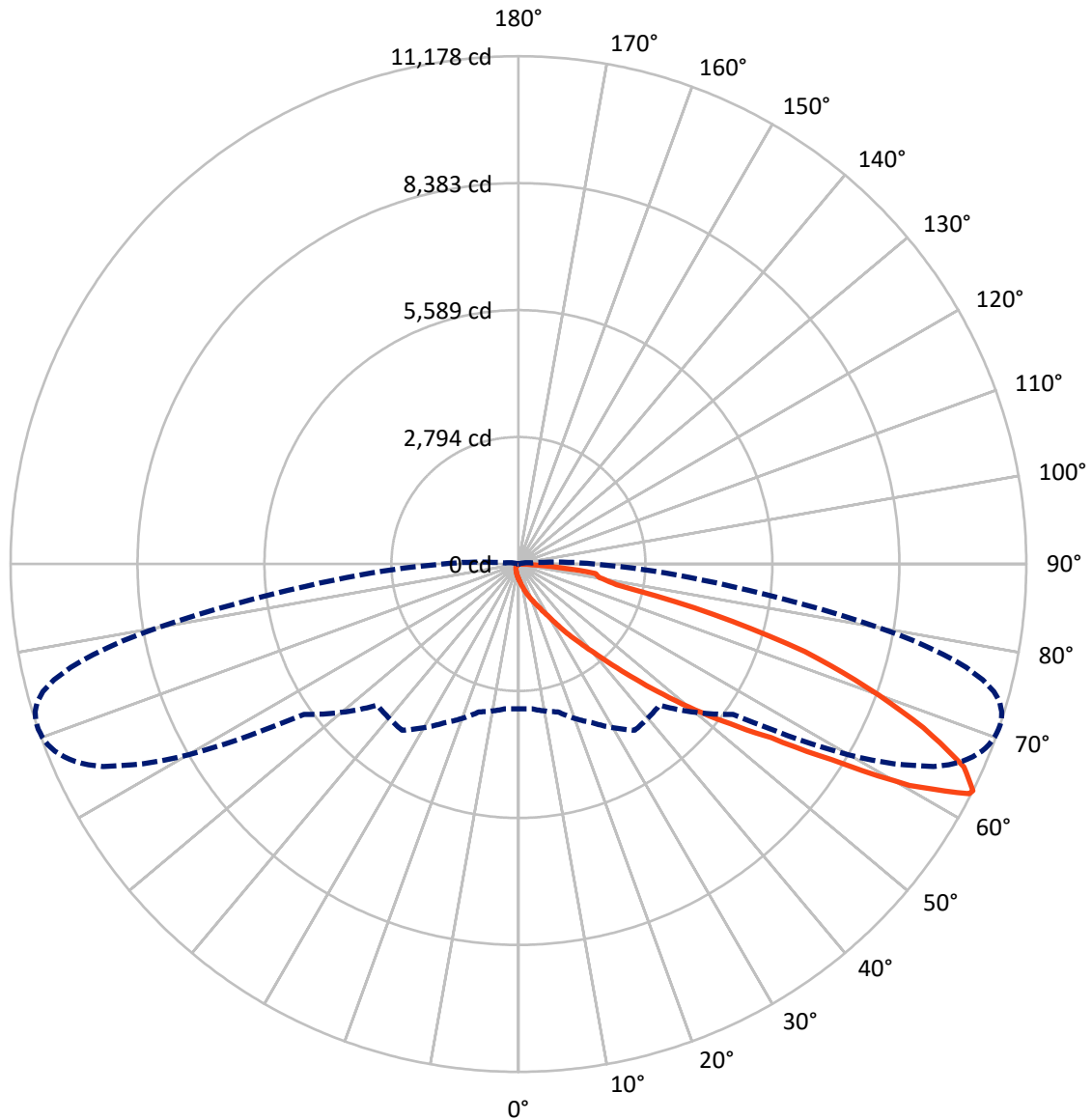
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.6 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	177.8	0.0	177.8
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	8195.7	0.0	8195.7
	% Fixture	97.9	0.0	97.9
Total	Lumens	8373.5	0.0	8373.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.5	0.4
10°-20°	137.7	1.6
20°-30°	279.6	3.3
30°-40°	683.2	8.2
40°-50°	1528.0	18.2
50°-60°	2148.6	25.7
60°-70°	2526.5	30.2
70°-80°	912.3	10.9
80°-90°	122.0	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°	8373.5	100.0
0°-180°	8373.5	100.0



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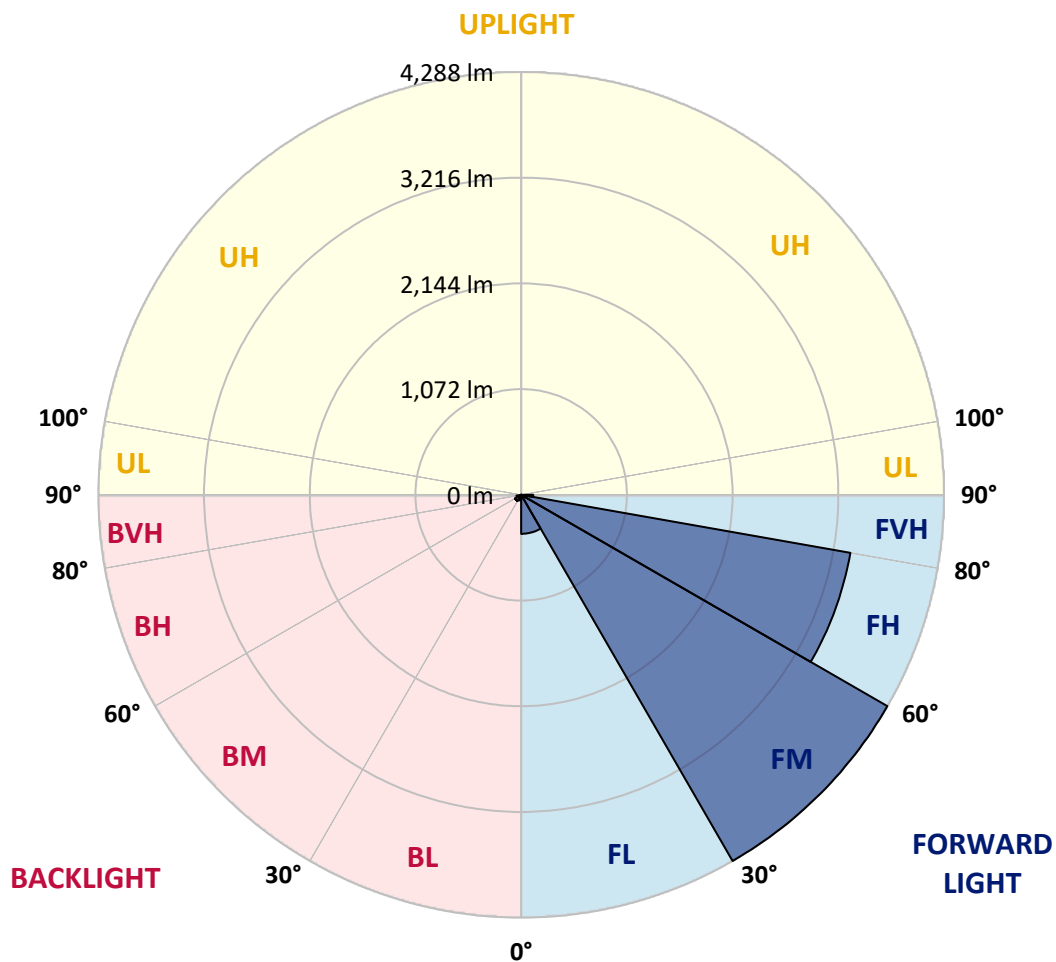
CATALOG NUMBER: VWM-E05-LED-E1-SL2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	395.7	4.7			
FM	(30°-60°)	4288.2	51.2			
FH	(60°-80°)	3390.1	40.5			G2/5000
FVH	(80°-90°)	121.7	1.5			G2/225
BL	(0°-30°)	57.2	0.7	B0/110		
BM	(30°-60°)	71.6	0.9	B0/220		
BH	(60°-80°)	48.7	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	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°	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2
2.5°	420.1	424.7	421.7	414.1	404.9	392.7	382.1	382.1	380.6	376.0	377.5
5°	551.1	552.6	546.5	528.2	511.5	485.6	456.7	453.6	450.6	446.0	444.5
7.5°	678.9	685.0	678.9	659.1	625.6	586.1	540.4	535.8	526.7	526.7	520.6
10°	809.8	809.8	803.7	780.9	750.5	694.1	636.3	628.7	618.0	615.0	605.9
12.5°	902.7	902.7	899.7	887.5	863.1	812.9	742.9	735.2	721.5	717.0	706.3
15°	939.2	939.2	940.8	951.4	952.9	930.1	857.0	850.9	837.2	825.1	820.5
17.5°	962.1	960.5	960.5	975.8	1003.2	1018.4	971.2	965.1	949.9	943.8	928.6
20°	1012.3	1009.3	1000.1	1000.1	1026.0	1079.3	1079.3	1077.8	1061.0	1056.4	1048.8
22.5°	1086.9	1083.8	1056.4	1033.6	1045.8	1112.8	1175.2	1172.1	1166.0	1160.0	1155.4
25°	1208.7	1198.0	1150.8	1083.8	1073.2	1144.7	1248.2	1255.9	1260.4	1260.4	1263.5
27.5°	1392.9	1379.2	1295.4	1170.6	1123.4	1196.5	1328.9	1344.1	1357.8	1360.9	1374.6
30°	1648.6	1624.2	1504.0	1321.3	1213.2	1272.6	1447.7	1464.4	1484.2	1490.3	1511.6
32.5°	2068.7	2055.0	1939.3	1665.3	1434.0	1421.8	1613.6	1634.9	1660.8	1671.4	1697.3
35°	2708.1	2711.1	2616.7	2370.1	2050.5	1883.0	1910.4	1928.7	1937.8	1969.8	1983.5
37.5°	3141.9	3149.5	3170.8	3073.4	2845.1	2674.6	2460.0	2479.7	2432.6	2437.1	2438.6
40°	3379.4	3403.8	3528.6	3623.0	3604.7	3505.7	3333.7	3344.4	3256.1	3236.3	3140.4
42.5°	3537.7	3569.7	3769.1	4061.4	4210.5	4300.4	4260.8	4256.2	4187.7	4161.8	4081.2
45°	3636.7	3665.6	3916.8	4347.5	4691.6	4953.4	5061.5	5073.7	5015.8	4989.9	4923.0
47.5°	3632.1	3665.6	3935.0	4454.1	4961.0	5379.6	5684.1	5699.3	5734.3	5711.5	5716.1
50°	3431.2	3463.1	3734.1	4273.0	4881.9	5574.5	6131.6	6180.3	6236.7	6274.7	6293.0
52.5°	3187.6	3210.4	3450.9	3962.4	4543.9	5493.8	6396.5	6480.2	6563.9	6635.5	6685.7
55°	3097.8	3123.7	3312.4	3737.1	4273.0	5155.9	6519.8	6643.1	6761.8	6879.1	6975.0
57.5°	3145.0	3169.3	3304.8	3630.6	4111.6	4799.7	6554.8	6746.6	6941.5	7131.7	7320.5
60°	3318.5	3344.4	3460.1	3729.5	4069.0	4594.2	6417.8	6736.0	7060.2	7392.0	7704.1
62.5°	3250.0	3260.7	3431.2	3903.1	4373.4	4419.1	5920.0	6364.5	6859.3	7370.7	7874.6
63°	3184.5	3196.7	3370.3	3855.9	4466.3	4393.2	5766.3	6235.1	6757.3	7308.3	7856.3
65°	2887.7	2889.2	3021.7	3405.3	4362.8	4438.9	5081.3	5528.8	6128.6	6789.2	7481.9
67.5°	2155.5	2144.9	2272.7	2565.0	3425.1	4440.4	4361.2	4612.4	5029.5	5615.6	6236.7
70°	764.2	747.4	954.5	1359.4	2134.2	3632.1	3747.8	3764.5	3880.2	4196.8	4586.5
72.5°	248.1	252.7	304.5	497.8	983.4	2444.7	3393.1	3341.3	3310.9	3309.4	3361.1
75°	98.9	100.5	121.8	220.7	441.5	1178.2	2971.4	3000.4	3011.0	3026.2	3043.0
77.5°	47.2	51.8	68.5	123.3	219.2	583.0	2126.6	2371.7	2511.7	2619.8	2685.2
80°	16.7	19.8	38.1	76.1	102.0	267.9	1120.4	1351.8	1557.3	1822.1	2050.5
82.5°	0.0	0.0	7.6	53.3	56.3	108.1	459.7	538.9	616.5	799.2	1026.0
85°	0.0	0.0	0.0	15.2	16.7	18.3	155.3	187.2	210.1	245.1	283.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.6	9.1	22.8	35.0
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2
2.5°	374.5	373.0	373.0	369.9	368.4	365.3	363.8	359.3	357.7	357.7	357.7
5°	443.0	436.9	433.8	426.2	421.7	420.1	412.5	409.5	404.9	406.4	398.8
7.5°	519.1	508.4	503.9	493.2	490.2	479.5	476.5	468.9	464.3	455.2	452.1
10°	602.8	589.1	581.5	564.8	560.2	552.6	543.4	534.3	526.7	517.6	513.0
12.5°	698.7	686.5	680.4	657.6	647.0	636.3	624.1	611.9	599.8	592.2	581.5
15°	811.4	791.6	785.5	764.2	745.9	732.2	715.5	700.2	691.1	675.9	665.2
17.5°	922.5	902.7	898.1	866.2	846.4	837.2	819.0	799.2	782.4	767.2	750.5
20°	1033.6	1019.9	1007.7	977.3	956.0	940.8	916.4	896.6	882.9	861.6	840.3
22.5°	1144.7	1131.0	1121.9	1089.9	1070.1	1048.8	1027.5	1006.2	986.4	960.5	936.2
25°	1258.9	1249.8	1245.2	1216.3	1198.0	1178.2	1156.9	1132.6	1108.2	1079.3	1053.4
27.5°	1377.6	1380.7	1371.5	1365.5	1345.7	1332.0	1298.5	1281.7	1263.5	1228.5	1196.5
30°	1528.3	1537.5	1534.4	1539.0	1526.8	1517.7	1491.8	1470.5	1449.2	1415.7	1379.2
32.5°	1718.6	1730.8	1736.9	1753.6	1747.5	1744.5	1736.9	1706.4	1691.2	1633.4	1618.2
35°	2012.4	2006.3	2032.2	2045.9	2039.8	2036.8	2027.6	2010.9	1992.6	1951.5	1913.5
37.5°	2394.5	2400.6	2409.7	2382.3	2364.1	2362.5	2335.1	2318.4	2292.5	2246.8	2201.2
40°	3094.7	3056.7	3014.1	2898.4	2848.1	2819.2	2738.5	2715.7	2671.5	2609.1	2561.9
42.5°	4005.0	3967.0	3839.1	3645.8	3542.3	3399.2	3333.7	3253.0	3190.6	3088.6	3033.8
45°	4909.3	4799.7	4784.4	4559.1	4431.3	4242.5	4125.3	3989.8	3848.2	3714.3	3616.9
47.5°	5671.9	5647.5	5573.0	5436.0	5317.2	5158.9	5008.2	4799.7	4653.5	4463.2	4288.2
50°	6282.3	6280.8	6253.4	6174.2	6075.3	5947.4	5815.0	5638.4	5472.5	5239.6	5052.3
52.5°	6739.0	6763.4	6772.5	6748.1	6710.1	6597.4	6530.5	6382.8	6242.7	6044.9	5842.4
55°	7073.9	7163.7	7209.4	7261.1	7250.5	7210.9	7207.9	7112.0	7048.0	6891.2	6748.1
57.5°	7488.0	7635.6	7777.2	8028.3	8037.5	8125.8	8171.4	8217.1	8229.3	8166.9	8119.7
60°	8014.6	8316.1	8584.0	9109.1	9246.1	9462.3	9602.4	9754.6	9884.0	9894.6	9891.6
62.5°	8386.1	8850.4	9282.7	10062.1	10328.5	10578.1	10765.4	10913.0	11002.8	11094.2	11136.8
63°	8396.7	8905.2	9364.9	10168.6	10448.7	10686.2	10864.3	11001.3	11095.7	11150.5	11177.9
65°	8139.5	8756.0	9304.0	10104.7	10368.0	10607.0	10699.9	10789.7	10835.4	10856.7	10776.0
67.5°	6898.8	7501.7	8141.0	9036.1	9261.4	9547.6	9623.7	9669.3	9690.6	9686.1	9617.6
70°	5158.9	5664.3	6375.2	7398.1	7696.5	7976.6	8150.1	8224.7	8249.1	8241.5	8139.5
72.5°	3601.6	3898.5	4484.6	5623.2	6029.6	6388.9	6603.5	6714.6	6737.5	6691.8	6597.4
75°	3024.7	3039.9	3172.4	3795.0	4175.5	4559.1	4801.2	4871.2	4825.5	4687.0	4446.5
77.5°	2700.5	2734.0	2734.0	2826.8	2901.4	3008.0	3030.8	2860.3	2662.4	2406.7	2199.7
80°	2265.1	2382.3	2464.5	2533.0	2540.6	2519.3	2463.0	2367.1	2214.9	2020.0	1803.9
82.5°	1376.1	1607.5	1701.9	2055.0	2228.6	2345.8	2336.7	2208.8	2093.1	1890.6	1706.4
85°	347.1	374.5	406.4	528.2	592.2	723.1	805.3	843.3	857.0	787.0	712.4
87.5°	33.5	22.8	38.1	28.9	41.1	30.4	41.1	38.1	47.2	50.2	54.8
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°	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2
2.5°	354.7	353.2	351.6	350.1	348.6	347.1	344.0	344.0	341.0	339.5	337.9
5°	394.3	391.2	389.7	386.7	382.1	379.0	374.5	368.4	363.8	362.3	359.3
7.5°	444.5	436.9	433.8	429.3	423.2	414.1	408.0	403.4	395.8	391.2	382.1
10°	500.8	493.2	484.1	474.9	465.8	455.2	447.5	441.5	429.3	423.2	412.5
12.5°	572.4	558.7	548.0	535.8	523.7	511.5	502.3	484.1	473.4	459.7	450.6
15°	645.4	633.3	621.1	605.9	587.6	567.8	558.7	541.9	528.2	506.9	494.7
17.5°	733.7	710.9	692.6	674.4	657.6	639.3	621.1	595.2	575.4	557.1	532.8
20°	820.5	793.1	773.3	748.9	724.6	695.7	674.4	656.1	628.7	604.3	578.5
22.5°	913.4	885.9	854.0	829.6	796.1	773.3	744.4	713.9	686.5	654.6	622.6
25°	1026.0	997.1	960.5	928.6	890.5	858.5	823.5	788.5	755.0	718.5	677.4
27.5°	1164.5	1134.1	1094.5	1056.4	1006.2	966.6	933.1	885.9	843.3	797.7	750.5
30°	1339.6	1306.1	1257.4	1202.6	1152.3	1108.2	1061.0	998.6	951.4	896.6	835.7
32.5°	1567.9	1528.3	1462.9	1411.1	1348.7	1290.9	1225.4	1163.0	1096.0	1024.5	954.5
35°	1855.6	1819.1	1743.0	1666.9	1598.4	1529.9	1447.7	1376.1	1281.7	1195.0	1105.2
37.5°	2154.0	2088.5	2018.5	1936.3	1851.1	1768.9	1668.4	1569.4	1461.4	1367.0	1254.3
40°	2495.0	2415.8	2358.0	2269.7	2149.4	2032.2	1939.3	1816.0	1680.6	1554.2	1421.8
42.5°	2962.3	2874.0	2770.5	2636.5	2549.8	2412.8	2292.5	2146.4	1968.3	1826.7	1666.9
45°	3502.7	3382.4	3282.0	3152.6	3047.5	2877.1	2737.0	2542.2	2364.1	2178.3	1983.5
47.5°	4119.2	3970.0	3823.9	3696.0	3528.6	3361.1	3183.0	2976.0	2747.7	2543.7	2312.3
50°	4827.1	4615.5	4413.0	4248.6	4018.7	3825.4	3632.1	3399.2	3146.5	2912.1	2648.7
52.5°	5614.1	5369.0	5101.1	4848.4	4582.0	4333.8	4100.9	3833.0	3551.4	3265.2	2971.4
55°	6563.9	6379.8	6064.6	5743.5	5387.2	5055.4	4755.5	4423.7	4081.2	3705.2	3396.1
57.5°	8051.2	7961.4	7698.0	7376.8	6912.5	6509.1	6000.7	5594.3	5098.0	4580.5	4181.6
60°	10066.6	9955.5	9807.9	9547.6	9179.2	8631.2	8071.0	7439.2	6684.2	5967.2	5286.8
62.5°	11141.4	11101.8	10981.5	10801.9	10457.9	10025.5	9460.8	8766.6	7914.2	7043.5	6175.8
63°	11173.3	11123.1	11019.6	10836.9	10534.0	10115.4	9561.3	8886.9	8052.7	7165.2	6279.3
65°	10741.0	10721.2	10616.2	10416.8	10209.7	9890.1	9460.8	8880.8	8180.6	7341.8	6460.4
67.5°	9526.2	9466.9	9305.5	9244.6	9100.0	8877.8	8550.5	8151.7	7650.8	6991.7	6230.6
70°	8057.3	7969.0	7766.5	7658.4	7481.9	7341.8	7142.4	6857.7	6548.7	6089.0	5521.2
72.5°	6500.0	6317.3	6131.6	5850.0	5603.4	5353.8	5133.0	4932.1	4592.6	4406.9	3976.1
75°	4221.2	3889.4	3571.2	3145.0	2761.4	2421.9	2091.6	1924.1	1575.5	1434.0	1231.5
77.5°	2003.3	1817.6	1567.9	1374.6	1128.0	921.0	752.0	564.8	443.0	347.1	264.9
80°	1616.6	1459.8	1309.1	1134.1	948.4	756.6	580.0	433.8	307.5	213.1	150.7
82.5°	1441.6	1271.1	1085.4	965.1	838.8	686.5	563.2	459.7	339.5	248.1	169.0
85°	560.2	471.9	363.8	296.8	231.4	190.3	172.0	118.7	92.9	73.1	56.3
87.5°	48.7	39.6	32.0	21.3	22.8	12.2	13.7	9.1	7.6	7.6	6.1
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°	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2
2.5°	336.4	334.9	333.4	330.3	330.3	327.3	325.8	324.2	316.6	299.9	286.2
5°	353.2	350.1	347.1	342.5	339.5	334.9	331.9	327.3	310.5	278.6	251.2
7.5°	377.5	371.4	366.9	357.7	353.2	347.1	342.5	334.9	307.5	258.8	220.7
10°	406.4	395.8	388.2	377.5	368.4	360.8	353.2	342.5	304.5	237.5	193.3
12.5°	441.5	429.3	414.1	401.9	389.7	379.0	368.4	354.7	299.9	219.2	172.0
15°	476.5	458.2	447.5	430.8	414.1	398.8	383.6	371.4	301.4	199.4	153.7
17.5°	516.0	497.8	474.9	456.7	438.4	418.6	400.4	376.0	293.8	184.2	140.0
20°	554.1	528.2	506.9	484.1	458.2	433.8	411.0	389.7	287.7	169.0	127.9
22.5°	595.2	564.8	537.4	508.4	476.5	449.1	421.7	394.3	277.0	155.3	117.2
25°	645.4	610.4	570.8	535.8	502.3	468.9	433.8	400.4	266.4	143.1	109.6
27.5°	706.3	660.7	621.1	576.9	529.7	487.1	449.1	412.5	255.7	134.0	102.0
30°	784.0	730.7	674.4	618.0	567.8	519.1	465.8	420.1	245.1	124.8	94.4
32.5°	887.5	820.5	752.0	686.5	619.6	557.1	500.8	441.5	239.0	117.2	86.8
35°	1024.5	937.7	854.0	771.8	691.1	615.0	541.9	474.9	239.0	108.1	77.6
37.5°	1153.9	1053.4	946.8	844.8	748.9	660.7	573.9	493.2	226.8	100.5	70.0
40°	1293.9	1173.7	1048.8	928.6	812.9	703.3	604.3	511.5	216.2	91.3	62.4
42.5°	1508.6	1356.3	1193.4	1053.4	914.9	779.4	656.1	546.5	202.5	82.2	54.8
45°	1790.2	1596.8	1405.0	1234.5	1058.0	892.0	745.9	610.4	199.4	74.6	47.2
47.5°	2091.6	1863.2	1637.9	1420.3	1213.2	1019.9	844.8	682.0	199.4	67.0	41.1
50°	2391.5	2105.3	1864.8	1612.1	1379.2	1150.8	942.3	756.6	200.9	60.9	33.5
52.5°	2662.4	2356.4	2087.0	1794.7	1537.5	1272.6	1045.8	829.6	197.9	53.3	27.4
55°	3038.4	2679.2	2367.1	2044.4	1743.0	1444.6	1187.4	939.2	199.4	47.2	22.8
57.5°	3731.0	3309.4	2933.4	2510.2	2163.1	1778.0	1465.9	1164.5	217.7	39.6	16.7
60°	4725.1	4177.1	3648.8	3132.8	2691.3	2233.1	1828.2	1473.5	255.7	32.0	12.2
62.5°	5393.3	4676.4	4046.1	3476.8	2963.8	2484.3	2042.9	1639.5	281.6	25.9	7.6
63°	5461.8	4720.5	4087.2	3499.7	2976.0	2496.5	2052.0	1651.6	283.1	24.4	7.6
65°	5591.2	4796.6	4110.1	3504.2	2963.8	2479.7	2045.9	1650.1	286.2	19.8	6.1
67.5°	5443.6	4679.4	3977.6	3373.3	2857.3	2380.8	1969.8	1589.2	284.7	13.7	4.6
70°	4868.2	4234.9	3618.4	3055.2	2586.3	2155.5	1793.2	1449.2	261.8	9.1	3.0
72.5°	3574.2	3143.4	2665.5	2259.0	1948.5	1618.2	1380.7	1088.4	202.5	6.1	1.5
75°	1059.5	965.1	811.4	715.5	631.7	522.1	464.3	362.3	103.5	3.0	0.0
77.5°	211.6	191.8	172.0	156.8	147.7	126.3	120.3	98.9	42.6	1.5	0.0
80°	111.1	91.3	77.6	68.5	59.4	48.7	41.1	33.5	7.6	0.0	0.0
82.5°	106.6	71.5	51.8	42.6	36.5	28.9	22.8	16.7	4.6	0.0	0.0
85°	39.6	30.4	22.8	18.3	15.2	13.7	10.7	9.1	0.0	0.0	0.0
87.5°	6.1	4.6	4.6	3.0	3.0	1.5	1.5	1.5	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°	321.2	321.2	321.2	321.2	321.2	321.2	321.2
2.5°	272.5	260.3	254.2	246.6	246.6	245.1	248.1
5°	226.8	210.1	197.9	188.8	190.3	185.7	187.2
7.5°	191.8	175.1	164.4	158.3	156.8	155.3	155.3
10°	165.9	150.7	141.6	137.0	135.5	135.5	135.5
12.5°	147.7	132.4	124.8	121.8	121.8	120.3	120.3
15°	132.4	120.3	112.6	109.6	109.6	108.1	109.6
17.5°	120.3	108.1	102.0	98.9	98.9	97.4	97.4
20°	109.6	98.9	92.9	88.3	88.3	86.8	88.3
22.5°	100.5	89.8	82.2	79.2	77.6	76.1	77.6
25°	91.3	80.7	73.1	68.5	67.0	67.0	65.5
27.5°	83.7	73.1	63.9	59.4	57.8	57.8	56.3
30°	76.1	63.9	54.8	50.2	48.7	48.7	48.7
32.5°	68.5	54.8	47.2	42.6	41.1	41.1	41.1
35°	60.9	47.2	39.6	35.0	33.5	33.5	33.5
37.5°	51.8	39.6	30.4	27.4	25.9	24.4	24.4
40°	44.1	30.4	22.8	19.8	16.7	16.7	16.7
42.5°	36.5	24.4	16.7	12.2	10.7	9.1	10.7
45°	30.4	18.3	10.7	6.1	4.6	4.6	4.6
47.5°	24.4	12.2	4.6	1.5	1.5	1.5	1.5
50°	18.3	7.6	1.5	0.0	0.0	1.5	1.5
52.5°	13.7	4.6	0.0	0.0	0.0	0.0	0.0
55°	7.6	1.5	0.0	0.0	0.0	0.0	0.0
57.5°	4.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	3.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.5	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.5	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)