

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: P148790

Luminaire Tested: **VWM-E02-LED-E1-RW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P148790
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VWM-E02-LED-E1-RW
Description: VISION WALL MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6247.9 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

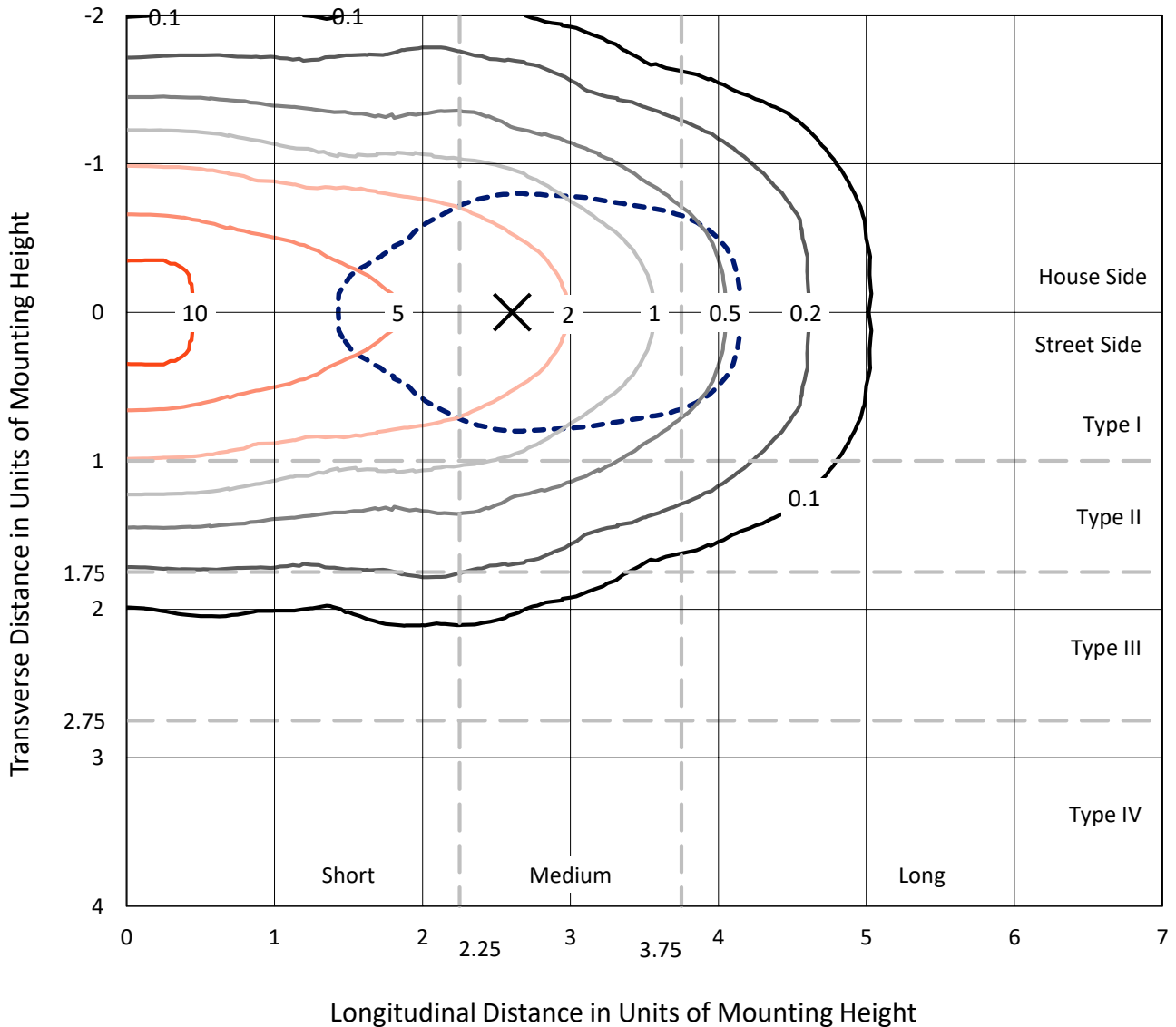
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

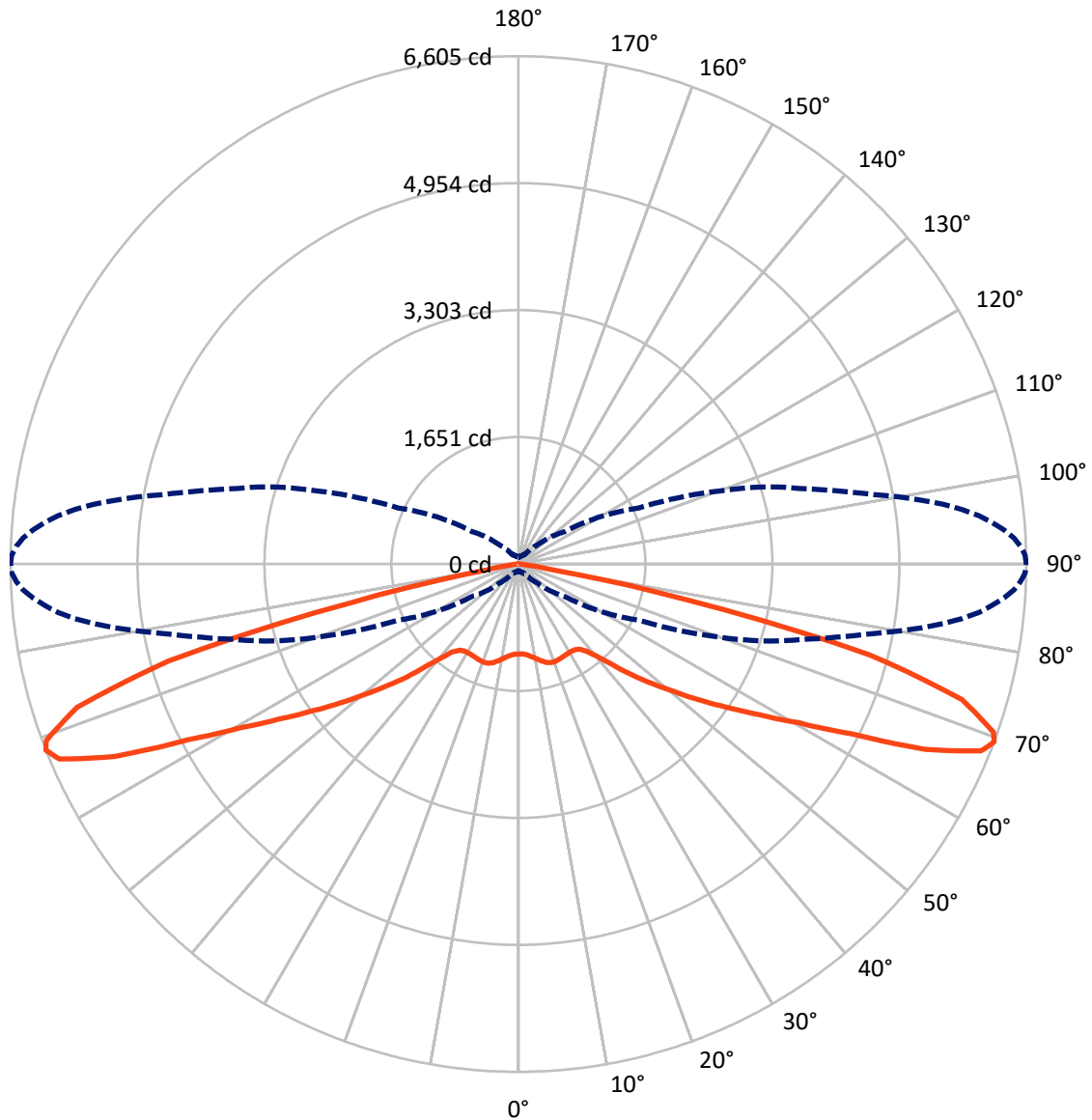


Based on 10 foot mounting height. Maximum calculated value = 12 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3123.9	0.0	3123.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3123.9	0.0	3123.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	6247.9	0.0	6247.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	1.8
10°-20°	362.2	5.8
20°-30°	586.9	9.4
30°-40°	731.4	11.7
40°-50°	914.0	14.6
50°-60°	1128.5	18.1
60°-70°	1402.3	22.4
70°-80°	930.9	14.9
80°-90°	76.9	1.2
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°	6247.9	100.0
0°-180°	6247.9	100.0



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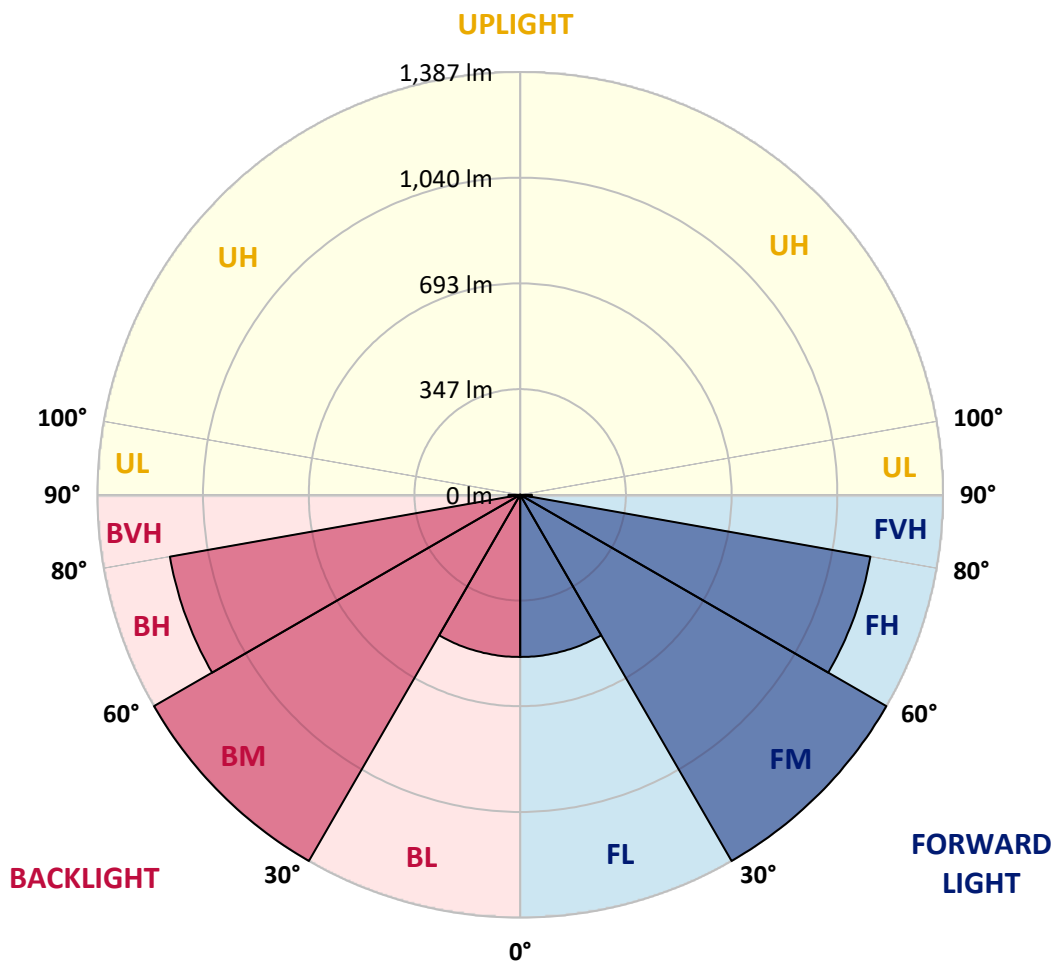
CATALOG NUMBER: VWM-E02-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	532.0	8.5			
FM	(30°-60°)	1386.9	22.2			
FH	(60°-80°)	1166.6	18.7			G1/1800
FVH	(80°-90°)	38.4	0.6			G1/100
BL	(0°-30°)	532.0	8.5	B2/1000		
BM	(30°-60°)	1386.9	22.2	B2/2500		
BH	(60°-80°)	1166.6	18.7	B3/2500		G3/2500
BVH	(80°-90°)	38.4	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7
2.5°	1176.0	1177.0	1176.3	1177.6	1177.4	1177.4	1176.7	1175.4	1175.2	1175.0	1174.8
5°	1187.4	1186.0	1188.0	1190.0	1189.4	1189.7	1189.4	1189.4	1189.2	1189.1	1188.9
7.5°	1199.3	1199.0	1200.4	1205.7	1206.4	1208.3	1210.6	1212.3	1212.4	1212.4	1212.5
10°	1209.6	1210.0	1213.4	1221.0	1225.0	1231.4	1237.6	1242.6	1243.0	1243.4	1243.8
12.5°	1218.0	1218.4	1223.3	1235.4	1245.0	1257.0	1270.7	1278.3	1279.0	1279.6	1280.3
15°	1218.6	1219.6	1228.4	1248.0	1267.3	1287.0	1303.4	1313.6	1314.2	1314.7	1315.3
17.5°	1210.0	1210.6	1225.4	1254.3	1286.6	1317.4	1334.3	1339.0	1339.2	1339.4	1339.6
20°	1187.4	1189.0	1209.6	1252.6	1302.0	1342.0	1359.7	1353.3	1352.7	1352.0	1351.4
22.5°	1150.7	1150.4	1177.4	1235.4	1305.0	1361.3	1377.0	1360.4	1358.4	1356.4	1354.4
25°	1091.3	1095.4	1127.0	1196.4	1288.0	1365.6	1389.4	1364.0	1361.2	1358.3	1355.5
27.5°	1027.0	1029.4	1063.0	1137.4	1248.4	1350.7	1395.4	1371.3	1368.1	1365.0	1361.8
30°	952.0	955.0	991.0	1068.6	1184.6	1312.0	1393.6	1388.0	1384.3	1380.6	1376.9
32.5°	878.6	882.0	914.3	999.3	1117.6	1259.0	1383.6	1411.6	1407.8	1404.1	1400.2
35°	802.7	807.7	847.0	933.0	1053.0	1200.0	1368.3	1442.0	1439.9	1437.8	1435.7
37.5°	739.7	740.7	778.7	869.0	993.0	1143.6	1348.0	1480.3	1481.8	1483.4	1484.9
40°	669.4	675.7	713.7	809.0	938.6	1096.0	1328.6	1532.4	1540.3	1548.3	1556.2
42.5°	606.3	607.0	645.6	744.0	879.6	1057.7	1318.0	1595.0	1612.0	1629.1	1646.1
45°	540.0	542.6	577.6	672.7	811.7	1012.4	1317.7	1667.4	1694.6	1721.8	1749.0
47.5°	477.4	478.4	515.4	603.6	733.6	949.0	1315.4	1745.0	1782.0	1819.1	1856.1
50°	417.4	416.4	452.6	537.6	656.6	866.0	1295.0	1833.0	1879.8	1926.5	1973.3
52.5°	348.7	353.4	391.0	472.4	586.6	781.6	1235.6	1929.3	1985.2	2041.2	2097.1
55°	281.4	283.4	323.7	399.6	515.6	703.0	1132.3	2018.0	2083.9	2149.9	2215.8
57.5°	207.3	213.3	248.6	323.6	443.6	636.6	1001.0	2064.0	2144.2	2224.5	2304.7
60°	146.3	151.0	182.3	245.4	364.6	567.0	888.0	2038.4	2142.6	2246.9	2351.1
62.5°	114.0	117.6	142.7	183.7	284.4	497.3	807.0	1955.3	2097.2	2239.0	2380.9
65°	100.0	103.4	126.0	147.0	212.3	426.3	762.7	1867.7	2055.2	2242.8	2430.3
67.5°	90.4	94.4	114.0	128.6	173.0	372.0	751.0	1812.4	2024.8	2237.1	2449.6
69°	86.0	90.0	107.6	120.0	160.6	352.7	731.0	1725.4	1936.5	2147.7	2358.8
70°	83.4	86.6	103.0	115.6	156.7	339.4	697.6	1616.6	1824.0	2031.4	2238.8
72.5°	77.4	79.0	93.3	105.7	145.4	274.4	536.6	1200.7	1380.5	1560.2	1740.0
75°	68.4	70.4	83.7	95.6	113.4	170.4	339.6	742.6	876.9	1011.1	1145.3
77.5°	59.0	60.6	72.3	91.4	88.0	106.4	203.0	413.3	491.1	569.0	646.8
80°	47.3	49.4	59.6	90.6	72.6	82.7	146.0	289.0	310.0	331.0	352.0
82.5°	34.6	36.3	46.6	73.4	55.7	62.4	111.4	245.0	252.3	259.6	266.9
85°	17.7	18.0	29.6	44.7	35.3	32.4	62.6	167.7	172.4	177.0	181.7
87.5°	3.0	3.0	6.7	7.7	8.6	5.3	8.0	28.7	29.6	30.5	31.4
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7
2.5°	1174.7	1174.5	1174.0	1174.1	1174.5	1174.2	1174.7	1174.8	1175.1	1173.9	1173.6
5°	1188.8	1188.7	1188.6	1188.6	1188.8	1188.7	1189.0	1189.6	1189.4	1188.6	1188.4
7.5°	1212.6	1212.7	1213.0	1212.6	1213.3	1213.0	1212.4	1213.4	1214.2	1214.2	1215.0
10°	1244.1	1244.5	1245.6	1245.5	1246.6	1246.5	1246.6	1247.8	1248.6	1248.7	1249.5
12.5°	1281.0	1281.6	1282.2	1282.8	1284.1	1283.4	1285.0	1285.7	1286.6	1288.7	1287.7
15°	1315.8	1316.4	1318.2	1318.2	1319.4	1319.8	1321.4	1322.0	1322.2	1323.8	1324.0
17.5°	1339.8	1340.0	1340.7	1340.3	1341.4	1341.0	1342.0	1342.6	1343.4	1344.3	1345.8
20°	1350.8	1350.2	1349.8	1349.4	1348.7	1347.7	1348.0	1348.4	1348.6	1349.4	1350.6
22.5°	1352.5	1350.5	1348.5	1347.1	1345.1	1343.4	1341.7	1341.8	1342.0	1341.7	1342.5
25°	1352.7	1349.8	1346.7	1342.8	1340.0	1336.2	1333.0	1332.7	1331.8	1331.8	1332.3
27.5°	1358.7	1355.5	1351.0	1346.6	1340.5	1335.4	1330.3	1328.5	1326.7	1325.6	1325.1
30°	1373.2	1369.5	1364.2	1358.6	1351.9	1344.0	1336.6	1334.4	1331.8	1329.6	1327.6
32.5°	1396.4	1392.6	1386.8	1380.9	1372.0	1364.2	1357.0	1353.3	1349.6	1345.7	1342.0
35°	1433.6	1431.5	1426.3	1421.2	1414.7	1408.5	1402.0	1397.9	1391.7	1388.6	1384.1
37.5°	1486.5	1488.0	1488.0	1488.7	1486.7	1483.7	1479.0	1474.7	1472.7	1464.3	1459.0
40°	1564.2	1572.2	1579.4	1585.1	1590.1	1595.0	1599.3	1596.8	1597.6	1595.4	1592.2
42.5°	1663.1	1680.2	1695.7	1711.3	1722.5	1740.1	1752.3	1756.2	1766.0	1769.9	1777.1
45°	1776.2	1803.4	1829.4	1853.6	1876.0	1901.2	1925.6	1943.8	1963.8	1986.2	2008.8
47.5°	1893.1	1930.2	1968.7	2000.2	2032.6	2069.8	2102.3	2129.7	2165.5	2198.5	2235.0
50°	2020.1	2066.8	2110.6	2149.5	2191.3	2234.1	2278.6	2318.9	2367.2	2420.1	2477.4
52.5°	2153.1	2209.0	2259.7	2308.4	2357.5	2406.6	2454.0	2510.8	2570.4	2640.3	2711.8
55°	2281.7	2347.7	2405.2	2459.4	2515.6	2570.5	2619.4	2695.4	2768.5	2851.9	2945.2
57.5°	2384.9	2465.2	2531.5	2595.9	2659.3	2717.6	2777.7	2863.5	2956.6	3054.1	3172.5
60°	2455.4	2559.7	2644.4	2721.8	2799.5	2872.9	2942.0	3054.1	3164.9	3286.0	3433.5
62.5°	2522.8	2664.6	2775.2	2880.7	2985.6	3079.8	3165.7	3306.8	3451.5	3601.2	3776.6
65°	2617.8	2805.4	2968.1	3115.3	3260.4	3398.9	3527.3	3706.1	3888.8	4085.9	4295.3
67.5°	2662.0	2874.4	3086.4	3284.7	3469.0	3644.4	3809.4	4025.4	4240.5	4468.9	4721.9
69°	2570.0	2781.2	3007.8	3224.4	3428.1	3614.0	3792.6	4013.2	4236.8	4470.1	4725.4
70°	2446.1	2653.5	2882.2	3108.7	3303.4	3497.2	3682.3	3901.2	4127.7	4361.6	4628.8
72.5°	1919.8	2099.5	2322.6	2542.4	2737.8	2932.2	3112.0	3336.0	3564.0	3809.6	4062.6
75°	1279.5	1413.7	1579.9	1783.7	1962.9	2134.8	2309.0	2498.5	2720.9	2923.4	3154.9
77.5°	724.7	802.5	899.0	1031.6	1160.2	1263.1	1387.3	1476.5	1605.6	1717.1	1834.9
80°	373.0	394.0	422.8	454.6	472.7	469.9	488.4	470.0	474.2	459.2	443.2
82.5°	274.2	281.5	294.5	300.9	300.3	279.3	257.0	226.0	198.8	170.2	144.0
85°	186.3	191.0	194.3	199.2	197.8	188.8	168.7	141.8	115.6	92.7	74.2
87.5°	32.3	33.2	32.9	35.7	35.8	33.2	27.4	23.3	19.7	14.6	10.3
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):

	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
0°	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7
2.5°	1173.3	1173.4	1174.0	1173.4	1173.4	1173.3	1173.0	1173.6	1173.3	1172.4	1171.3
5°	1188.6	1187.6	1187.4	1188.0	1188.7	1187.4	1188.4	1189.4	1187.6	1188.0	1187.3
7.5°	1214.4	1214.0	1213.7	1214.3	1214.3	1214.0	1214.4	1213.3	1212.6	1213.7	1214.7
10°	1248.6	1248.4	1249.0	1249.0	1250.4	1249.6	1249.4	1250.4	1249.7	1249.0	1249.3
12.5°	1289.0	1288.0	1289.6	1289.7	1290.6	1290.6	1290.4	1290.7	1290.4	1289.3	1288.7
15°	1325.0	1323.7	1324.0	1326.7	1326.3	1327.0	1327.0	1326.4	1326.0	1325.6	1326.0
17.5°	1346.6	1346.0	1346.0	1347.4	1348.4	1348.0	1348.0	1348.0	1347.7	1348.0	1348.7
20°	1350.6	1350.6	1351.0	1352.4	1354.0	1353.0	1353.0	1353.6	1353.0	1353.7	1354.0
22.5°	1343.0	1343.6	1344.4	1346.0	1346.4	1346.4	1346.4	1346.7	1347.4	1347.3	1348.0
25°	1332.3	1333.0	1334.0	1335.4	1336.6	1336.7	1336.7	1337.4	1337.3	1337.7	1338.0
27.5°	1324.3	1325.0	1326.0	1327.4	1329.0	1329.0	1329.0	1329.6	1329.6	1330.0	1330.7
30°	1325.4	1324.0	1325.0	1325.6	1326.7	1326.6	1326.3	1326.6	1327.0	1327.0	1327.3
32.5°	1339.6	1336.7	1335.6	1335.4	1335.6	1334.6	1334.4	1333.6	1333.0	1333.0	1332.7
35°	1377.6	1373.0	1372.6	1370.0	1367.4	1364.6	1365.0	1363.0	1363.6	1362.0	1360.7
37.5°	1455.6	1450.4	1453.6	1448.0	1444.3	1441.6	1438.7	1434.6	1432.3	1435.4	1435.3
40°	1595.4	1591.6	1590.7	1591.7	1588.3	1590.0	1582.6	1580.6	1576.4	1579.4	1583.3
42.5°	1788.4	1786.0	1798.7	1801.0	1802.4	1804.4	1805.7	1794.6	1794.4	1792.0	1785.3
45°	2026.6	2040.6	2040.0	2055.4	2056.0	2051.4	2053.4	2048.3	2046.4	2039.0	2048.0
47.5°	2271.7	2298.4	2308.3	2311.6	2324.4	2327.4	2315.4	2311.4	2318.4	2306.4	2308.0
50°	2534.6	2563.3	2586.6	2602.4	2611.4	2612.0	2603.0	2601.0	2607.4	2584.6	2595.3
52.5°	2793.4	2836.6	2880.7	2904.0	2920.7	2922.0	2929.0	2920.7	2924.0	2918.6	2929.3
55°	3048.3	3123.3	3175.0	3220.6	3249.6	3274.6	3277.0	3286.0	3286.6	3297.6	3286.7
57.5°	3297.6	3379.4	3469.4	3550.4	3595.4	3623.6	3650.4	3686.6	3694.6	3690.4	3697.3
60°	3592.0	3718.4	3840.7	3934.0	4011.7	4086.0	4126.0	4183.0	4192.0	4216.7	4195.3
62.5°	3964.0	4147.4	4313.4	4439.0	4557.0	4672.6	4760.0	4804.0	4830.6	4882.4	4865.3
65°	4534.6	4754.6	4974.4	5154.3	5319.6	5457.4	5590.0	5653.4	5723.4	5796.7	5810.0
67.5°	5004.6	5277.0	5524.7	5744.0	5944.4	6097.3	6235.3	6345.0	6430.4	6484.4	6488.7
69°	5026.0	5309.0	5578.0	5813.3	6022.4	6185.0	6330.3	6452.4	6535.4	6590.6	6605.3
70°	4924.0	5213.6	5500.3	5738.0	5952.0	6118.3	6272.3	6388.6	6481.4	6537.7	6557.3
72.5°	4350.4	4659.7	4966.0	5174.4	5393.0	5591.0	5714.3	5833.0	5963.6	5980.6	6034.7
75°	3429.4	3689.3	3927.0	4086.3	4269.0	4446.6	4567.6	4599.0	4667.4	4753.4	4722.7
77.5°	1987.4	2067.4	2220.6	2260.0	2226.6	2304.0	2329.7	2275.0	2272.4	2322.7	2222.7
80°	440.4	415.4	446.7	423.4	424.0	424.6	417.7	415.0	420.0	415.0	408.0
82.5°	122.0	118.0	118.6	117.4	119.6	118.0	117.0	119.6	119.4	119.0	121.3
85°	58.6	58.0	57.0	56.6	55.4	53.6	51.0	51.0	52.3	50.3	51.3
87.5°	7.6	7.3	7.4	8.7	7.7	6.4	6.4	6.4	6.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)