

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: P181652

Luminaire Tested: **ICM-F04-LED-E1-T4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181652
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F04-LED-E1-T4-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7834.7 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 102.2
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

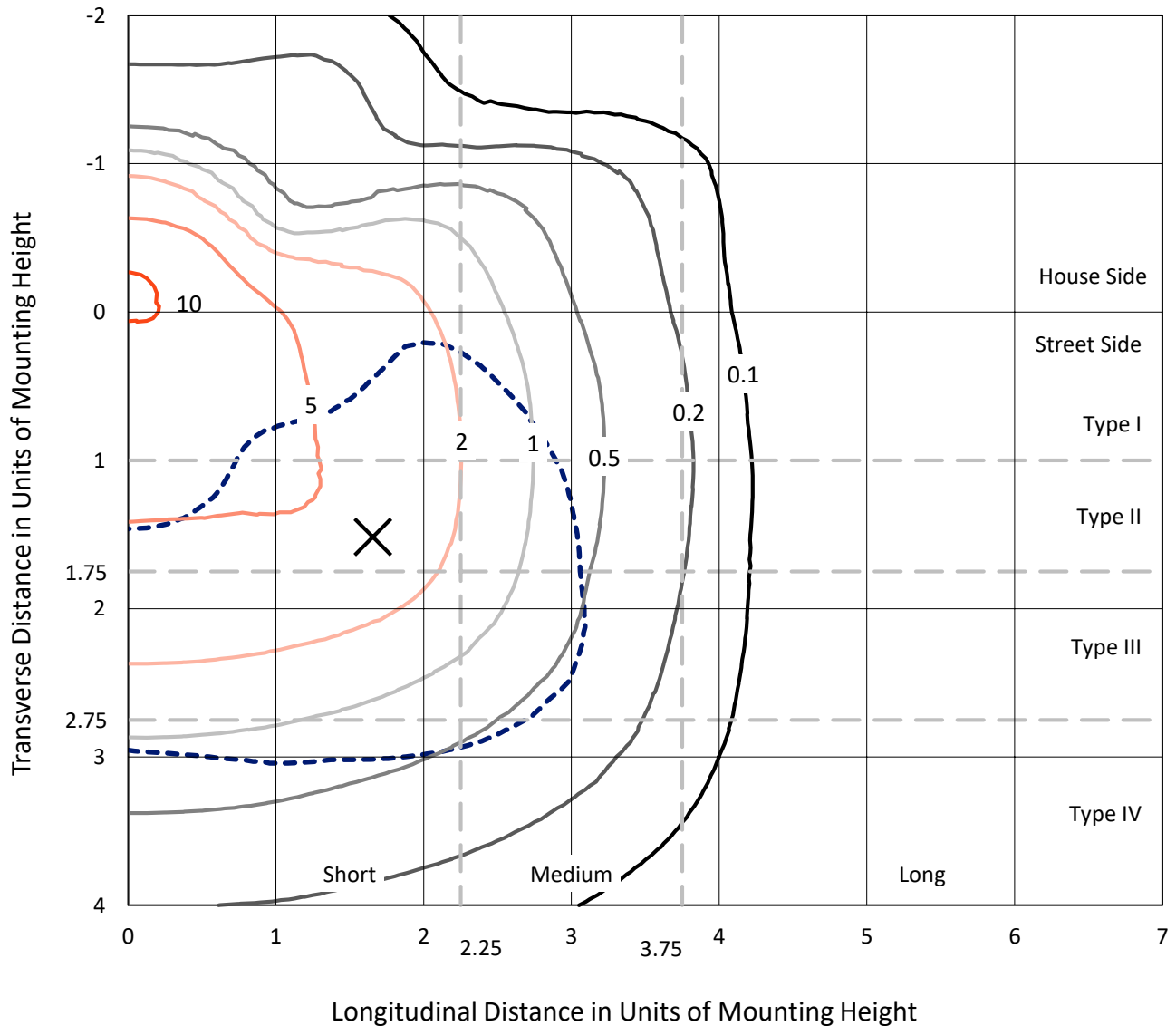


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

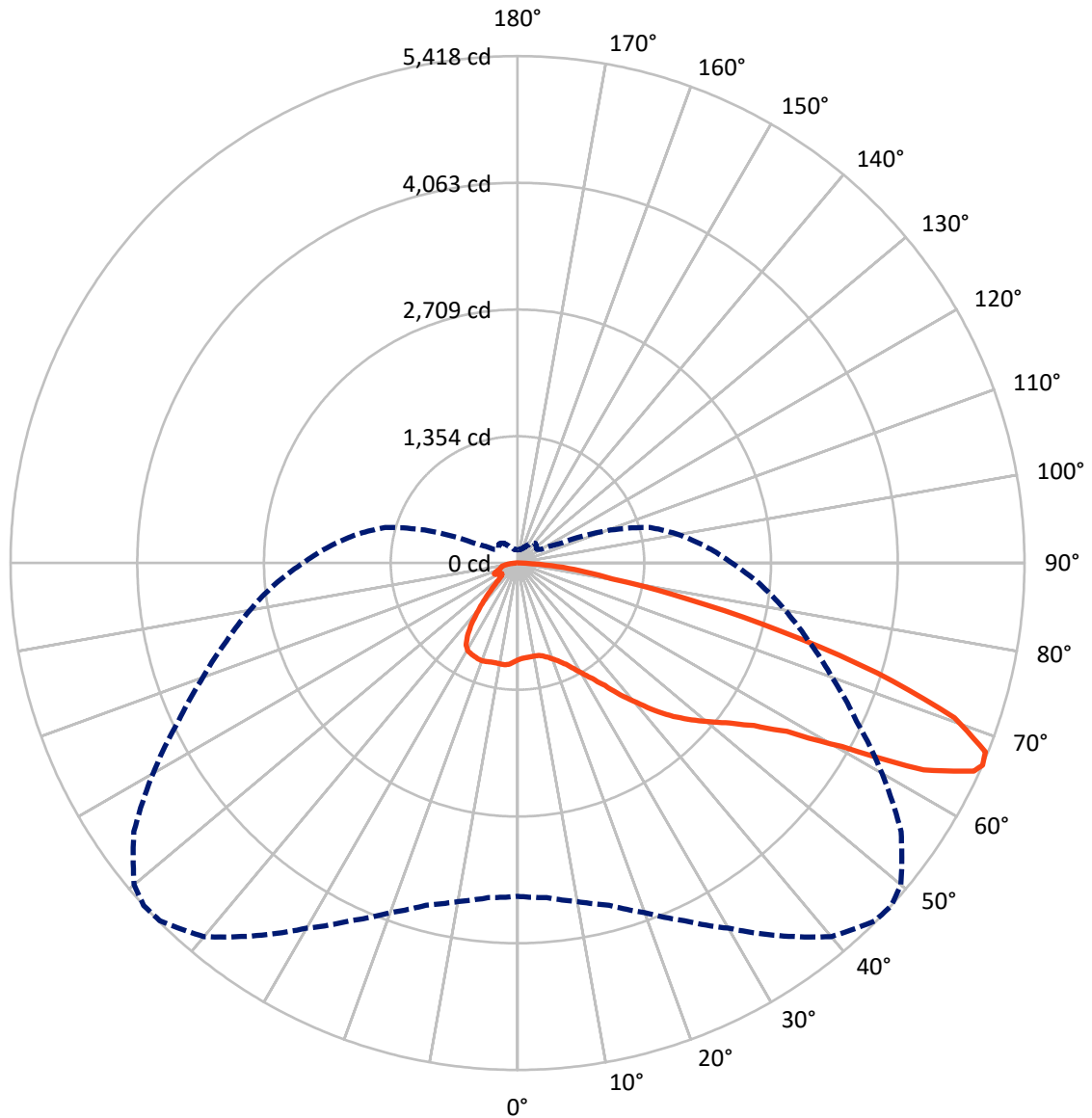


Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1671.7	0.0	1671.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	6163.0	0.0	6163.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	7834.7	0.0	7834.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	1.3
10°-20°	304.5	3.9
20°-30°	524.4	6.7
30°-40°	793.4	10.1
40°-50°	1028.4	13.1
50°-60°	1417.8	18.1
60°-70°	2202.8	28.1
70°-80°	1281.0	16.3
80°-90°	182.2	2.3
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°	7834.7	100.0
0°-180°	7834.7	100.0



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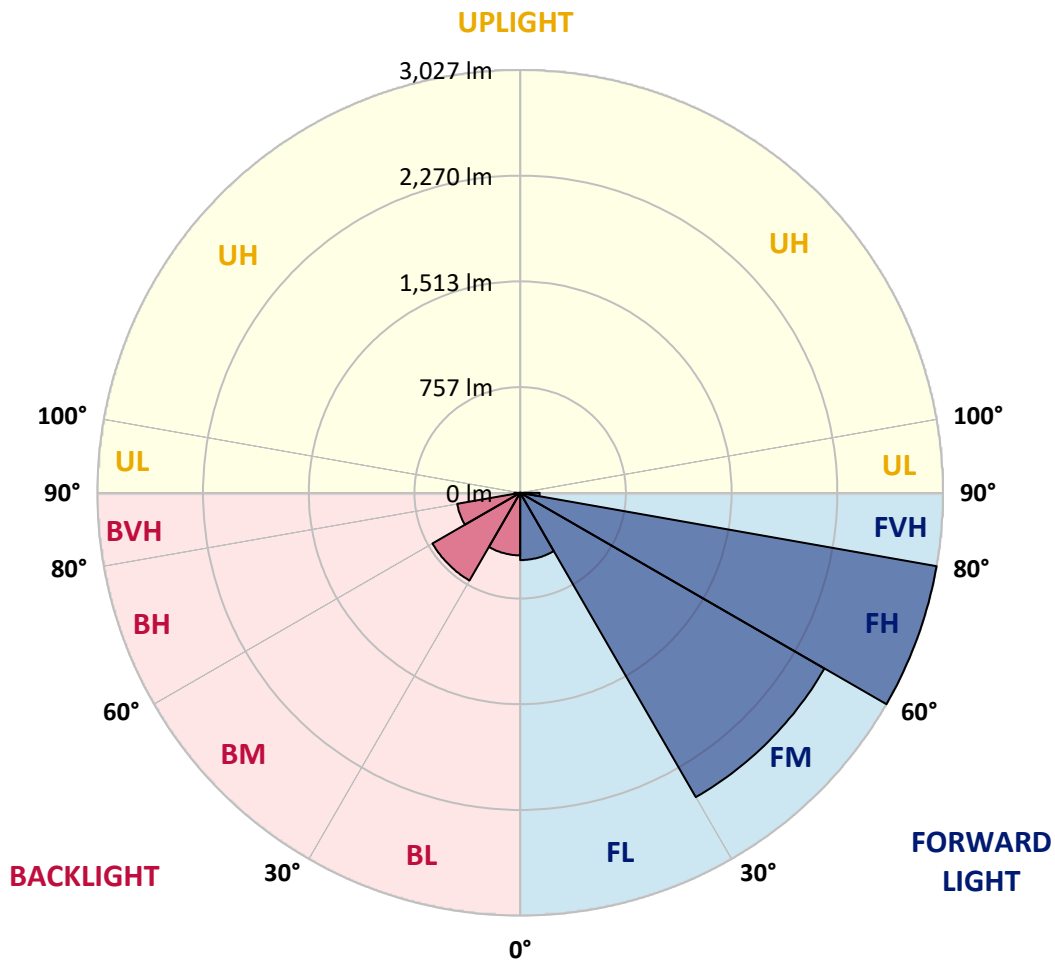
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	481.7	6.1			
FM	(30°-60°)	2514.9	32.1			
FH	(60°-80°)	3026.5	38.6			G2/5000
FVH	(80°-90°)	139.8	1.8			G2/225
BL	(0°-30°)	447.5	5.7	B1/500		
BM	(30°-60°)	724.7	9.2	B1/1000		
BH	(60°-80°)	457.2	5.8	B1/500		G1/500
BVH	(80°-90°)	42.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7
2.5°	1013.7	1017.1	1014.5	1015.4	1015.4	1016.3	1016.3	1017.1	1016.3	1018.9	1020.6
5°	995.5	997.2	996.4	998.1	999.8	1003.3	1002.4	1006.8	1007.6	1010.2	1014.5
7.5°	988.7	986.9	987.7	990.3	992.1	993.8	995.5	999.0	1001.6	1007.6	1011.1
10°	995.5	994.7	995.5	997.2	997.2	998.1	996.4	999.8	1001.6	1006.8	1010.2
12.5°	1024.0	1024.0	1022.3	1022.3	1020.6	1018.9	1014.5	1011.9	1011.1	1011.9	1013.7
15°	1069.9	1068.1	1064.7	1062.1	1058.6	1052.6	1046.5	1041.3	1037.9	1032.7	1031.0
17.5°	1114.8	1112.2	1108.8	1105.3	1100.9	1094.9	1085.4	1079.4	1069.9	1063.8	1060.4
20°	1166.6	1161.5	1157.1	1152.8	1144.2	1142.4	1132.9	1122.5	1111.4	1097.5	1095.7
22.5°	1234.1	1225.4	1220.2	1217.6	1208.9	1206.4	1190.8	1176.1	1162.3	1144.2	1139.8
25°	1302.3	1293.7	1291.1	1287.6	1281.6	1278.1	1263.4	1247.0	1228.8	1203.8	1198.6
27.5°	1368.8	1369.7	1362.8	1365.4	1363.6	1357.6	1342.9	1326.5	1312.7	1283.3	1277.2
30°	1451.8	1446.6	1443.2	1448.4	1442.3	1443.2	1430.2	1421.6	1399.1	1381.8	1369.7
32.5°	1538.2	1537.4	1542.5	1546.0	1545.1	1543.5	1533.0	1524.4	1504.6	1479.5	1474.2
35°	1656.7	1661.8	1666.1	1681.7	1681.7	1692.9	1682.5	1672.2	1648.8	1618.6	1608.2
37.5°	1737.0	1738.7	1756.0	1776.8	1802.7	1826.9	1833.8	1836.4	1826.9	1804.4	1788.8
40°	1810.4	1813.9	1841.6	1873.5	1911.5	1959.1	1987.6	2000.6	2003.2	1992.8	1959.1
42.5°	1883.9	1889.1	1917.6	1964.3	2016.9	2077.5	2127.6	2159.5	2177.7	2177.7	2157.9
45°	1969.4	1976.4	2007.5	2058.4	2119.8	2195.8	2265.0	2326.3	2355.7	2357.5	2338.4
47.5°	2070.5	2076.6	2112.9	2164.8	2227.8	2304.8	2392.0	2462.1	2516.5	2519.9	2504.4
50°	2201.0	2209.7	2239.9	2286.6	2351.5	2429.2	2516.5	2614.2	2671.2	2684.9	2668.6
52.5°	2373.9	2375.6	2400.7	2443.9	2507.0	2581.3	2673.8	2780.0	2855.3	2866.4	2839.6
55°	2612.4	2609.8	2626.2	2672.9	2720.4	2778.3	2874.3	2993.5	3077.3	3094.6	3067.0
57.5°	2936.5	2933.9	2947.7	2958.9	3047.9	3104.1	3198.3	3312.4	3393.6	3443.7	3396.2
60°	3438.5	3435.9	3458.4	3524.1	3590.6	3672.8	3764.3	3900.9	4014.9	4029.6	3983.0
62.5°	3802.3	3815.3	3864.6	3941.5	4076.3	4237.0	4404.7	4584.4	4818.6	4893.0	4870.4
65°	3675.4	3701.2	3769.5	3886.2	4066.0	4288.0	4550.7	4876.5	5190.3	5365.6	5360.5
66°	3561.2	3589.8	3673.6	3786.0	3976.0	4218.9	4505.8	4861.0	5211.8	5405.4	5417.5
67.5°	3353.9	3385.8	3467.9	3601.0	3786.0	4044.3	4352.9	4739.1	5135.8	5361.3	5393.3
70°	2950.3	2986.6	3046.3	3155.9	3338.3	3569.0	3894.0	4239.7	4655.3	4913.7	4952.6
72.5°	2466.3	2498.3	2564.9	2654.7	2804.2	2949.4	3204.4	3459.3	3756.6	4051.3	4022.7
75°	1770.7	1784.5	1824.3	1922.0	2002.2	2132.8	2337.6	2546.7	2749.8	2884.6	2903.6
77.5°	920.4	956.7	1012.8	1120.8	1208.1	1325.7	1458.7	1616.0	1764.7	1888.2	1854.5
80°	602.3	617.9	668.0	723.4	787.3	862.4	951.4	1010.2	1029.2	1021.5	1029.2
82.5°	347.4	375.9	442.4	484.8	532.4	558.2	629.1	696.6	734.5	687.0	669.8
85°	44.1	57.0	179.7	226.4	259.3	298.1	319.7	360.4	336.2	300.7	366.4
87.5°	9.5	8.7	12.1	26.0	26.8	22.5	42.3	44.9	27.6	13.9	17.3
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7
2.5°	1022.3	1023.2	1024.9	1027.5	1029.2	1031.0	1032.7	1035.3	1037.0	1038.7	1042.2
5°	1018.0	1021.5	1024.9	1028.4	1032.7	1039.6	1043.9	1047.4	1050.8	1057.8	1060.4
7.5°	1015.4	1021.5	1026.6	1032.7	1039.6	1045.7	1053.4	1057.8	1062.9	1067.3	1072.5
10°	1013.7	1022.3	1027.5	1036.1	1043.9	1050.0	1058.6	1063.8	1069.9	1075.1	1077.6
12.5°	1017.1	1021.5	1026.6	1035.3	1044.8	1053.4	1062.9	1067.3	1072.5	1076.8	1077.6
15°	1031.8	1031.8	1032.7	1039.6	1049.1	1056.0	1063.8	1068.1	1070.7	1073.3	1073.3
17.5°	1058.6	1052.6	1048.3	1049.1	1055.2	1059.4	1063.8	1063.8	1062.1	1061.2	1059.4
20°	1089.7	1082.0	1073.3	1067.3	1065.5	1062.1	1059.4	1050.8	1043.9	1037.9	1033.6
22.5°	1134.7	1122.5	1110.4	1099.3	1088.8	1075.9	1061.2	1043.9	1027.5	1016.3	1009.3
25°	1190.0	1180.5	1165.8	1148.5	1135.5	1111.4	1092.3	1067.3	1046.5	1031.8	1019.7
27.5°	1268.6	1257.4	1243.5	1228.0	1208.9	1182.1	1158.9	1129.5	1104.4	1082.8	1067.3
30°	1366.2	1351.5	1341.2	1322.1	1309.2	1279.0	1255.6	1219.4	1171.0	1136.4	1114.8
32.5°	1466.5	1450.1	1441.4	1426.7	1412.1	1393.9	1358.5	1302.3	1240.1	1183.9	1146.8
35°	1600.5	1583.2	1567.6	1554.6	1533.0	1499.4	1468.2	1400.8	1315.3	1236.7	1174.4
37.5°	1768.9	1740.5	1701.6	1668.8	1630.7	1582.3	1534.8	1465.7	1368.0	1266.1	1183.1
40°	1948.8	1898.6	1843.3	1782.0	1716.3	1646.2	1591.8	1521.8	1412.1	1291.1	1177.0
42.5°	2136.2	2056.8	1979.8	1893.4	1801.8	1718.8	1648.0	1571.1	1444.9	1298.0	1152.8
45°	2322.1	2233.0	2116.4	2003.2	1887.4	1784.5	1705.0	1618.6	1475.2	1300.6	1120.8
47.5°	2475.8	2384.3	2251.2	2109.4	1972.0	1855.4	1762.1	1668.8	1515.7	1318.7	1113.0
50°	2638.3	2526.8	2379.1	2211.5	2055.8	1925.4	1826.0	1729.2	1572.8	1365.4	1138.1
52.5°	2815.5	2687.6	2514.7	2327.2	2156.9	2010.9	1902.9	1803.5	1645.4	1431.1	1185.7
55°	3031.6	2875.1	2687.6	2475.8	2293.5	2131.9	2012.7	1895.2	1731.8	1508.8	1245.3
57.5°	3361.6	3169.8	2958.9	2717.8	2515.6	2324.7	2182.1	2046.3	1865.8	1624.7	1326.5
60°	3958.8	3754.0	3480.0	3187.9	2950.3	2727.4	2518.2	2349.7	2127.6	1852.8	1506.2
62.5°	4814.4	4542.1	4176.6	3767.8	3456.7	3135.2	2899.3	2648.7	2373.0	2076.6	1718.0
65°	5289.6	4959.5	4470.4	3995.9	3595.8	3246.7	2946.8	2656.5	2350.5	2067.1	1767.3
66°	5348.4	5004.4	4496.3	3996.8	3576.9	3218.2	2902.7	2602.1	2289.2	2018.7	1746.5
67.5°	5324.2	4972.5	4448.8	3921.6	3494.7	3109.3	2783.5	2471.6	2159.5	1907.3	1677.4
70°	4927.5	4594.0	4079.7	3569.0	3163.7	2783.5	2472.4	2165.6	1879.5	1663.5	1494.1
72.5°	4091.8	3806.7	3359.9	2958.9	2640.9	2327.2	2063.6	1770.7	1528.8	1368.8	1268.6
75°	2953.8	2780.9	2373.9	2144.0	1864.8	1656.7	1400.8	1227.2	1053.4	975.6	958.3
77.5°	1865.8	1633.3	1374.9	1132.1	930.7	771.7	600.6	509.9	425.2	416.6	503.0
80°	944.6	850.3	655.1	522.0	439.0	355.2	280.8	212.6	148.7	178.9	214.3
82.5°	618.8	515.9	404.5	332.7	289.5	240.3	186.7	129.6	95.1	107.2	146.9
85°	334.4	285.2	229.9	181.5	146.9	131.3	88.2	62.2	61.4	65.7	83.8
87.5°	24.2	24.2	19.0	17.3	20.7	17.3	15.5	15.5	14.7	15.5	20.7
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7
2.5°	1043.9	1046.5	1047.4	1051.7	1054.3	1056.0	1057.8	1057.8	1058.6	1061.2	1062.1
5°	1063.8	1068.1	1073.3	1076.8	1078.5	1083.6	1085.4	1085.4	1087.2	1090.6	1093.2
7.5°	1075.9	1082.0	1087.2	1088.8	1092.3	1094.1	1096.7	1098.3	1098.3	1101.9	1103.5
10°	1080.2	1083.6	1088.8	1088.8	1092.3	1092.3	1094.9	1095.7	1095.7	1099.3	1101.9
12.5°	1080.2	1082.0	1086.2	1086.2	1088.8	1089.7	1093.2	1095.7	1096.7	1100.9	1104.4
15°	1075.1	1076.8	1080.2	1081.1	1087.2	1090.6	1098.3	1103.5	1103.5	1107.9	1109.6
17.5°	1060.4	1064.7	1071.5	1078.5	1089.7	1097.5	1107.0	1111.4	1107.9	1105.3	1102.7
20°	1036.1	1043.9	1060.4	1077.6	1097.5	1107.9	1113.0	1108.8	1096.7	1084.6	1076.8
22.5°	1011.9	1027.5	1055.2	1081.1	1103.5	1110.4	1107.9	1092.3	1072.5	1057.8	1047.4
25°	1023.2	1041.3	1068.1	1091.4	1106.1	1104.4	1094.1	1072.5	1050.8	1031.8	1014.5
27.5°	1069.9	1089.7	1104.4	1112.2	1110.4	1098.3	1082.0	1057.8	1031.8	1006.8	982.6
30°	1114.0	1124.3	1127.7	1121.7	1107.9	1088.0	1067.3	1039.6	1005.0	974.0	946.2
32.5°	1133.8	1123.4	1107.0	1090.6	1068.1	1050.8	1022.3	992.1	948.8	911.7	884.0
35°	1133.8	1092.3	1050.8	1016.3	982.6	960.9	928.1	887.5	847.7	816.7	795.1
37.5°	1108.8	1029.2	960.9	904.7	862.4	839.1	789.9	753.6	719.8	709.5	695.6
40°	1062.9	945.4	846.9	773.4	719.8	685.3	636.0	611.0	598.1	592.8	590.2
42.5°	1001.6	852.1	720.7	630.0	572.1	533.2	500.4	484.8	483.9	483.1	483.1
45°	935.9	751.8	598.1	490.0	439.0	404.5	388.8	382.8	388.0	387.2	388.0
47.5°	895.3	675.8	485.7	370.7	331.8	309.4	301.6	304.2	308.5	306.8	306.8
50°	890.1	636.9	410.5	288.7	259.3	248.0	246.3	246.3	248.8	247.2	246.3
52.5°	909.1	630.9	371.6	248.0	224.7	215.2	213.5	212.6	211.7	206.5	202.2
55°	942.0	644.7	360.4	237.7	213.5	203.1	200.5	198.8	195.3	188.4	180.7
57.5°	1007.6	687.9	370.7	242.8	216.9	208.3	205.7	205.7	198.8	187.5	176.3
60°	1165.8	797.6	413.1	262.7	233.3	224.7	226.4	225.6	215.2	198.8	181.5
62.5°	1369.7	941.1	468.4	290.3	254.0	252.4	261.0	259.3	242.0	216.9	191.8
65°	1463.9	1008.5	483.9	296.4	258.4	266.1	283.4	281.7	260.1	225.6	193.6
66°	1465.7	1008.5	477.0	291.3	252.4	261.9	279.2	278.2	256.7	222.0	190.1
67.5°	1430.2	980.8	457.1	280.8	240.3	247.2	262.7	261.9	242.0	213.5	183.2
70°	1297.1	878.0	406.1	262.7	223.8	220.4	225.6	222.0	209.1	189.2	168.6
72.5°	1111.4	737.1	354.3	248.8	212.6	198.8	195.3	192.7	182.3	171.1	158.1
75°	875.4	583.4	311.1	238.5	202.2	184.1	178.0	174.6	167.6	159.9	149.5
77.5°	540.1	417.4	271.4	224.7	194.4	176.3	172.0	166.8	156.4	146.9	139.2
80°	241.1	258.4	223.0	196.2	173.7	157.3	150.3	142.6	132.2	126.1	121.9
82.5°	160.7	166.8	161.6	146.9	131.3	118.4	108.0	108.0	106.3	101.1	99.3
85°	102.8	103.7	100.3	90.7	84.7	76.9	72.6	73.5	76.9	76.1	75.2
87.5°	23.3	23.3	27.6	26.0	30.2	32.0	34.6	37.1	42.3	42.3	44.9
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):

	160°	165°	170°	175°	180°
0°	1032.7	1032.7	1032.7	1032.7	1032.7
2.5°	1062.9	1064.7	1066.4	1063.8	1064.7
5°	1093.2	1092.3	1096.7	1094.1	1095.7
7.5°	1102.7	1103.5	1107.0	1107.0	1107.9
10°	1103.5	1105.3	1109.6	1112.2	1114.0
12.5°	1107.9	1111.4	1118.2	1120.0	1120.0
15°	1111.4	1113.0	1117.4	1119.1	1120.8
17.5°	1099.3	1095.7	1097.5	1098.3	1097.5
20°	1068.9	1065.5	1064.7	1061.2	1062.9
22.5°	1036.1	1026.6	1020.6	1013.7	1013.7
25°	996.4	981.7	969.6	957.5	960.1
27.5°	959.3	940.2	928.1	920.4	918.6
30°	923.0	903.1	891.8	882.3	882.3
32.5°	862.4	848.7	834.0	827.9	827.0
35°	778.6	770.0	757.9	755.3	751.0
37.5°	684.5	681.9	671.4	670.6	666.2
40°	585.9	587.6	584.2	582.4	579.8
42.5°	487.4	496.0	494.3	493.4	491.7
45°	393.2	399.3	400.1	402.7	407.0
47.5°	309.4	311.1	312.8	312.0	312.8
50°	242.0	237.7	236.7	234.2	236.7
52.5°	195.3	188.4	184.9	181.5	179.7
55°	172.0	165.0	161.6	159.9	158.1
57.5°	166.0	159.0	153.9	150.3	149.5
60°	167.6	157.3	150.3	146.0	145.2
62.5°	172.0	158.1	148.7	144.3	143.4
65°	171.1	156.4	147.8	142.6	141.8
66°	168.6	154.7	146.0	141.8	140.8
67.5°	164.2	152.1	144.3	140.8	139.2
70°	156.4	148.7	142.6	138.2	136.6
72.5°	149.5	143.4	138.2	134.0	133.1
75°	141.8	136.6	131.3	127.9	127.1
77.5°	132.2	127.1	123.5	121.0	120.1
80°	116.7	113.2	109.8	106.3	106.3
82.5°	96.7	94.2	90.7	88.2	87.3
85°	74.3	74.3	71.7	69.1	68.3
87.5°	44.1	43.2	43.2	40.7	40.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)