

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: P142038

Luminaire Tested: **ECM-E03-LED-E1-T4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P142038
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33685)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-E03-LED-E1-T4-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7281.4 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

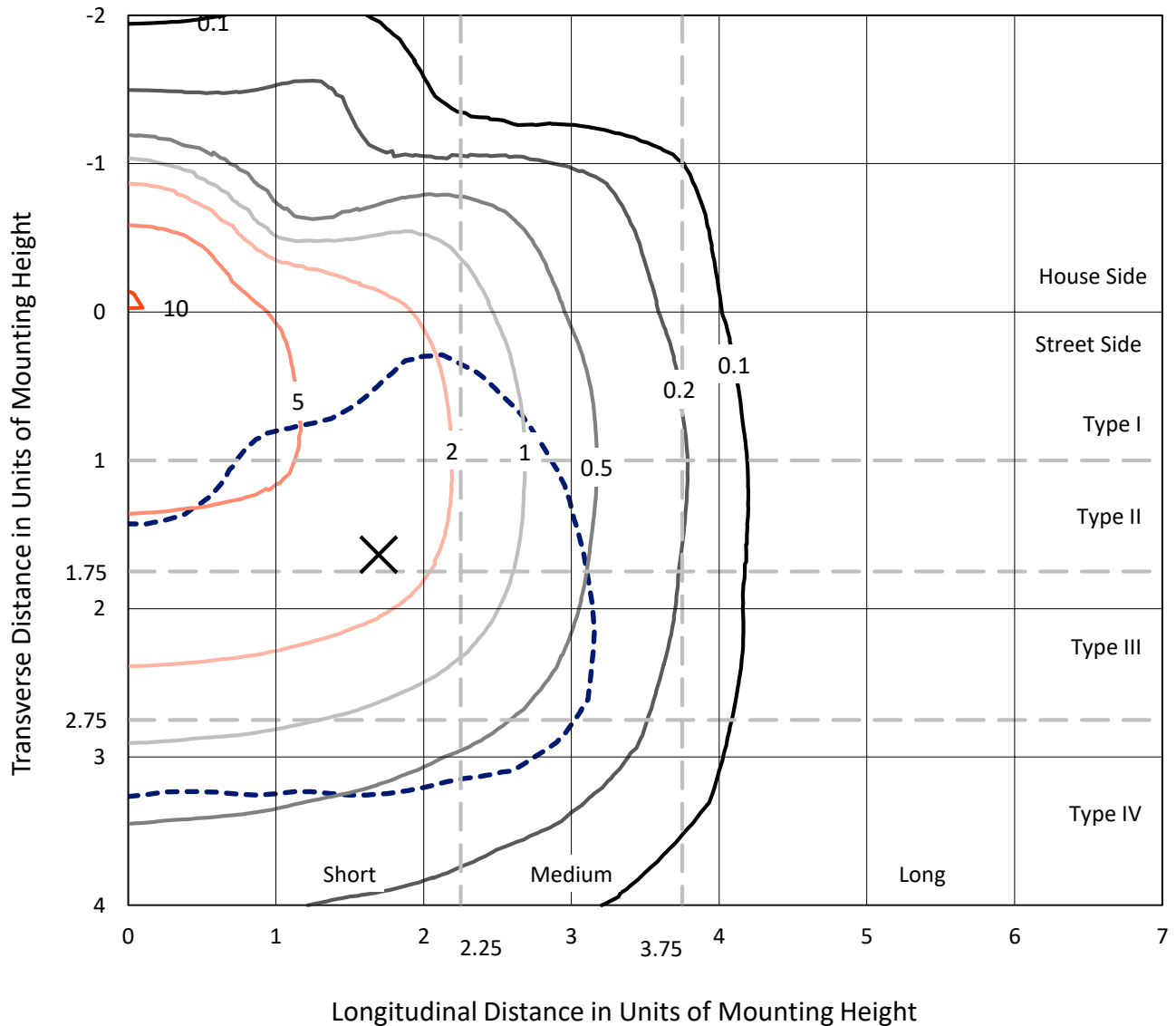
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

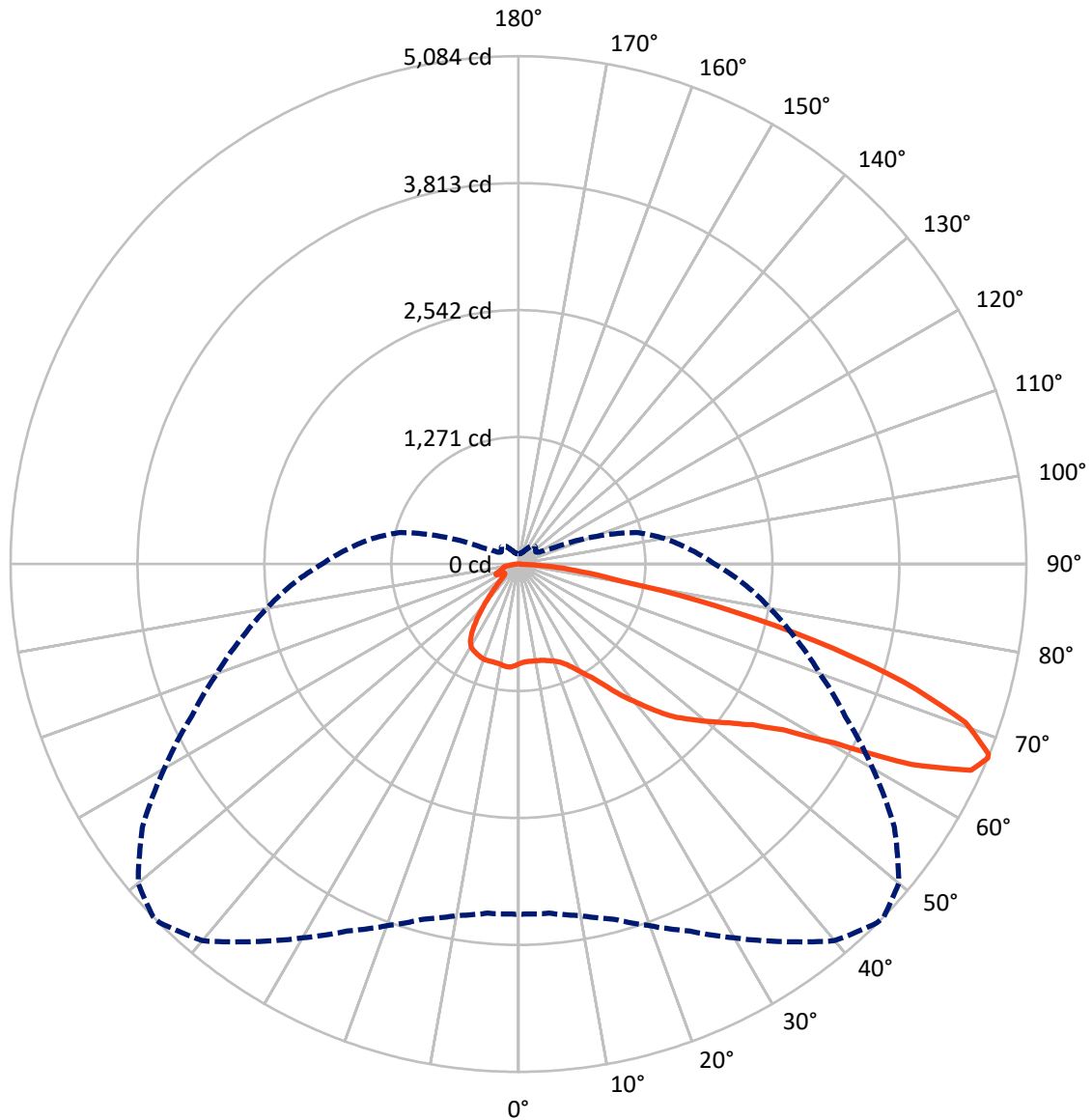


Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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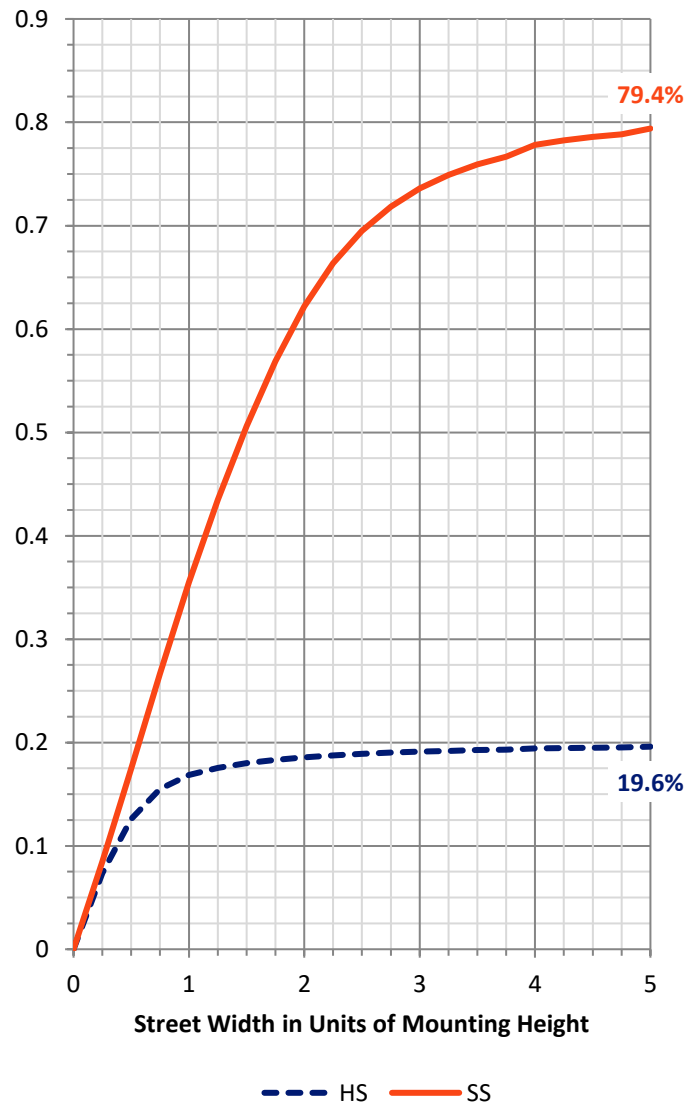
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1447.0	0.0	1447.0
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	5834.4	0.0	5834.4
	% Fixture	80.1	0.0	80.1
Total	Lumens	7281.4	0.0	7281.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	1.3
10°-20°	286.6	3.9
20°-30°	481.8	6.6
30°-40°	720.6	9.9
40°-50°	938.6	12.9
50°-60°	1285.4	17.7
60°-70°	2032.1	27.9
70°-80°	1260.5	17.3
80°-90°	179.6	2.5
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°	7281.4	100.0
0°-180°	7281.4	100.0



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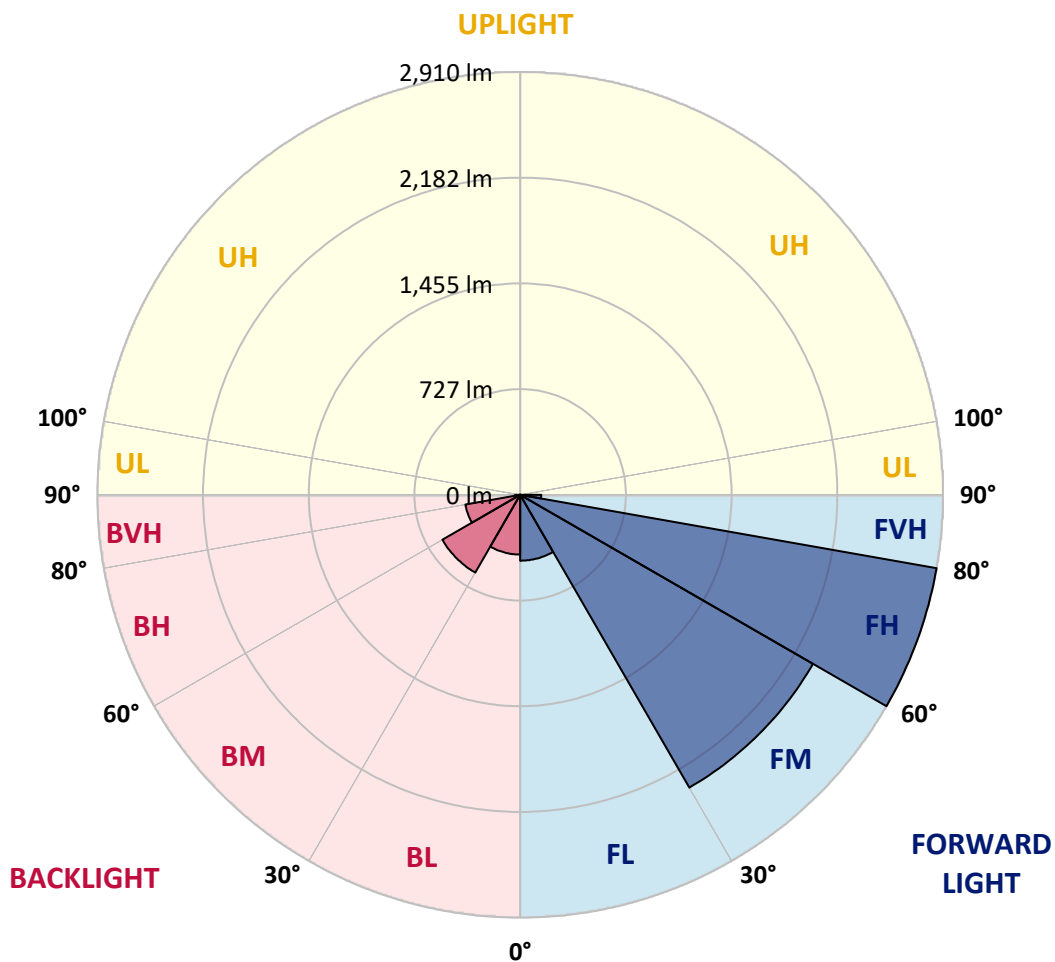
CATALOG NUMBER: ECM-E03-LED-E1-T4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	453.4	6.2			
FM	(30°-60°)	2326.7	32.0			
FH	(60°-80°)	2909.6	40.0			G2/5000
FVH	(80°-90°)	144.7	2.0			G2/225
BL	(0°-30°)	411.0	5.6	B1/500		
BM	(30°-60°)	617.9	8.5	B1/1000		
BH	(60°-80°)	383.0	5.3	B1/500		G1/500
BVH	(80°-90°)	35.0	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°	46°
0°	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6
2.5°	975.7	978.2	977.3	976.5	977.3	978.2	979.0	981.6	982.4	983.2	984.1
5°	957.9	960.5	959.6	961.3	962.1	965.5	968.1	972.3	974.8	978.2	979.9
7.5°	952.9	954.6	954.6	956.2	957.1	960.5	964.7	969.7	974.8	979.9	981.6
10°	966.4	967.2	967.2	966.4	967.2	968.9	970.6	974.8	979.0	983.2	984.9
12.5°	998.4	995.9	995.1	992.5	993.4	990.0	990.0	989.2	989.2	990.0	990.0
15°	1032.2	1030.5	1028.8	1024.6	1024.6	1019.5	1017.9	1014.5	1006.0	1002.7	1001.8
17.5°	1062.6	1060.9	1057.5	1054.1	1052.5	1045.7	1044.0	1038.1	1028.0	1020.4	1017.9
20°	1098.9	1094.7	1087.1	1085.4	1081.2	1073.6	1071.0	1063.4	1049.9	1039.0	1038.1
22.5°	1154.6	1147.8	1140.2	1134.3	1123.4	1115.8	1109.0	1098.9	1082.8	1070.2	1066.8
25°	1210.3	1207.8	1201.0	1192.6	1185.0	1176.5	1168.1	1152.9	1131.8	1115.8	1112.4
27.5°	1288.8	1282.9	1274.4	1260.9	1256.7	1242.4	1235.6	1222.9	1201.8	1181.6	1178.2
30°	1370.6	1364.7	1351.2	1339.4	1336.9	1321.7	1317.5	1304.0	1285.4	1265.1	1262.6
32.5°	1464.3	1458.4	1448.3	1441.5	1432.3	1423.8	1413.7	1401.0	1377.4	1360.5	1357.1
35°	1584.2	1579.1	1567.3	1572.4	1563.9	1561.4	1555.5	1534.4	1508.2	1488.0	1491.3
37.5°	1678.7	1677.9	1680.4	1677.9	1688.8	1699.8	1699.8	1701.5	1688.8	1666.9	1662.7
40°	1767.3	1766.5	1773.2	1780.8	1810.4	1828.1	1848.3	1855.9	1842.4	1825.6	1819.6
42.5°	1850.0	1848.3	1857.6	1885.5	1921.8	1954.7	1989.3	2018.8	2025.6	2007.0	2002.8
45°	1931.9	1934.4	1946.2	1977.5	2025.6	2068.6	2127.7	2162.3	2184.2	2174.1	2180.9
47.5°	2030.6	2033.2	2045.8	2083.0	2125.2	2179.2	2248.4	2307.5	2333.6	2333.6	2325.2
50°	2148.0	2159.8	2173.3	2198.6	2247.5	2300.7	2385.1	2444.2	2486.4	2484.7	2478.0
52.5°	2304.1	2306.6	2328.6	2348.8	2391.0	2445.0	2521.0	2602.0	2655.2	2650.1	2642.5
55°	2514.2	2504.1	2518.5	2537.9	2583.5	2630.7	2713.4	2807.1	2861.1	2845.1	2840.0
57.5°	2779.3	2770.8	2781.0	2804.6	2862.0	2900.8	2967.5	3053.6	3129.5	3143.0	3131.2
60°	3161.6	3161.6	3181.8	3232.5	3290.7	3349.0	3434.2	3538.0	3616.5	3635.9	3635.1
62.5°	3614.8	3643.5	3647.7	3713.6	3825.0	3925.4	4057.9	4241.1	4358.4	4441.9	4420.0
65°	3687.4	3696.7	3733.8	3835.9	3987.0	4165.1	4371.0	4611.6	4855.5	4976.2	4979.5
67°	3505.1	3508.5	3573.5	3680.6	3853.7	4054.5	4321.2	4614.1	4923.0	5079.1	5084.2
67.5°	3448.5	3441.8	3500.0	3612.3	3801.3	4027.5	4278.2	4586.2	4905.3	5072.4	5074.9
70°	3069.6	3073.0	3118.5	3243.5	3443.5	3655.3	3935.5	4252.0	4587.9	4740.7	4748.3
72.5°	2646.8	2624.8	2666.2	2799.5	2894.9	3101.7	3359.1	3597.9	3893.3	4037.7	4034.3
75°	2018.8	1958.1	2030.6	2108.3	2161.5	2366.6	2526.9	2691.5	2964.1	3073.8	3067.9
77.5°	1087.9	1085.4	1164.7	1225.5	1304.8	1489.6	1630.6	1734.4	1964.0	2018.0	2024.7
80°	590.8	612.7	660.0	727.5	791.7	880.3	962.1	1027.1	1102.3	1067.6	1060.1
82.5°	356.2	392.5	465.0	516.5	541.8	581.5	639.7	676.9	706.4	642.3	629.6
85°	56.5	102.1	262.5	314.0	341.0	359.5	372.2	396.7	362.1	339.3	345.2
87.5°	18.6	21.1	40.5	89.5	78.5	54.0	70.9	103.0	49.0	26.2	25.3
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°	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6
2.5°	984.9	985.8	988.3	991.7	993.4	997.6	997.6	1001.0	1001.0	1003.5	1006.0
5°	982.4	986.6	990.0	995.1	997.6	1003.5	1006.0	1011.1	1013.6	1017.0	1020.4
7.5°	986.6	992.5	996.8	1002.7	1006.9	1012.8	1015.3	1019.5	1022.1	1026.3	1028.0
10°	990.0	995.9	1001.0	1007.7	1011.1	1015.3	1017.9	1021.2	1022.1	1024.6	1026.3
12.5°	994.2	996.8	1001.0	1006.9	1010.3	1012.8	1015.3	1017.9	1020.4	1020.4	1020.4
15°	1000.1	997.6	998.4	1003.5	1006.9	1008.6	1011.1	1012.8	1013.6	1013.6	1011.9
17.5°	1012.8	1006.0	1001.8	1001.8	1003.5	1005.2	1005.2	1002.7	1001.0	998.4	995.1
20°	1031.4	1020.4	1011.9	1007.7	1004.3	1000.1	993.4	984.9	977.3	970.6	966.4
22.5°	1057.5	1046.5	1036.4	1027.1	1016.2	1001.8	987.5	969.7	955.4	944.4	940.2
25°	1106.5	1090.4	1082.8	1068.5	1051.6	1028.8	1006.9	982.4	965.5	950.3	943.6
27.5°	1172.3	1159.6	1142.8	1135.2	1113.2	1087.1	1062.6	1033.0	1009.4	990.8	978.2
30°	1255.9	1247.4	1233.1	1220.4	1199.3	1175.7	1139.4	1106.5	1065.1	1032.2	1013.6
32.5°	1352.1	1339.4	1326.8	1310.7	1295.5	1264.3	1230.5	1180.7	1123.4	1066.8	1032.2
35°	1472.8	1460.1	1451.7	1426.3	1401.0	1367.3	1321.7	1262.6	1182.4	1106.5	1047.4
37.5°	1639.0	1612.0	1570.7	1534.4	1488.8	1437.3	1385.8	1314.9	1225.5	1126.7	1045.7
40°	1783.4	1743.7	1697.3	1634.8	1570.7	1503.1	1442.4	1365.6	1260.9	1143.6	1033.9
42.5°	1970.7	1902.4	1823.9	1741.2	1653.4	1572.4	1497.2	1409.5	1287.1	1144.5	1006.0
45°	2139.5	2055.1	1951.3	1839.1	1731.9	1633.1	1547.0	1450.0	1309.0	1141.1	974.0
47.5°	2289.7	2191.0	2064.4	1929.4	1802.8	1691.4	1596.8	1494.7	1337.7	1152.0	962.1
50°	2434.9	2321.8	2179.2	2015.5	1874.5	1753.0	1654.2	1544.5	1385.8	1189.2	980.7
52.5°	2590.2	2452.6	2291.4	2106.6	1953.0	1827.2	1716.7	1604.4	1443.2	1239.0	1014.5
55°	2780.1	2624.0	2440.0	2235.7	2059.3	1919.2	1794.3	1676.2	1511.6	1300.6	1054.1
57.5°	3033.3	2875.5	2663.6	2428.2	2243.3	2077.1	1926.8	1793.5	1615.4	1385.8	1113.2
60°	3521.1	3326.2	3044.3	2788.5	2588.5	2392.7	2211.3	2029.0	1814.6	1558.0	1265.1
62.5°	4304.4	4032.6	3683.2	3327.0	3056.9	2797.8	2558.1	2321.0	2053.4	1765.6	1445.8
65°	4846.2	4510.3	4071.4	3624.9	3259.5	2943.0	2656.9	2375.0	2077.1	1802.8	1524.2
67°	4970.3	4594.7	4095.0	3610.6	3213.1	2869.6	2558.1	2264.4	1964.8	1715.8	1477.8
67.5°	4965.2	4590.5	4076.5	3580.2	3181.8	2843.4	2529.4	2220.5	1926.0	1682.1	1455.0
70°	4664.7	4288.3	3771.8	3278.1	2894.0	2557.3	2240.8	1971.6	1671.1	1473.6	1303.1
72.5°	3952.4	3624.9	3208.0	2764.1	2434.9	2133.6	1880.4	1616.2	1355.4	1223.8	1089.6
75°	3005.5	2715.1	2332.8	2007.9	1757.2	1547.9	1293.8	1120.0	936.8	846.5	798.4
77.5°	1985.9	1652.5	1388.4	1078.6	894.6	730.1	575.6	456.6	381.5	400.9	438.0
80°	1050.8	833.9	617.0	477.7	368.8	287.0	227.9	170.5	124.1	145.2	182.3
82.5°	572.2	487.8	360.4	287.0	234.6	194.1	149.4	104.7	77.6	86.1	124.1
85°	326.6	287.0	222.8	173.9	151.9	124.1	85.2	57.4	55.7	59.9	76.8
87.5°	54.0	72.6	59.1	40.5	45.6	44.7	39.7	30.4	22.8	32.1	41.4
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6
2.5°	1007.7	1010.3	1013.6	1014.5	1013.6	1016.2	1020.4	1023.8	1021.2	1019.5	1023.8
5°	1023.8	1025.4	1029.7	1029.7	1030.5	1032.2	1034.7	1037.3	1033.9	1033.9	1035.6
7.5°	1030.5	1030.5	1034.7	1033.0	1033.0	1032.2	1034.7	1035.6	1030.5	1029.7	1030.5
10°	1026.3	1026.3	1028.0	1024.6	1023.8	1022.9	1022.9	1023.8	1018.7	1017.0	1019.5
12.5°	1020.4	1020.4	1018.7	1017.0	1015.3	1013.6	1015.3	1016.2	1012.8	1012.8	1013.6
15°	1010.3	1007.7	1006.9	1006.9	1007.7	1008.6	1011.9	1014.5	1011.9	1010.3	1010.3
17.5°	993.4	991.7	994.2	999.3	1005.2	1009.4	1014.5	1016.2	1010.3	1003.5	998.4
20°	968.1	972.3	981.6	995.9	1008.6	1015.3	1015.3	1009.4	995.9	982.4	975.7
22.5°	941.9	953.7	974.0	995.9	1011.1	1013.6	1004.3	991.7	973.1	958.8	946.1
25°	945.3	959.6	979.9	998.4	1008.6	1004.3	987.5	971.4	949.5	934.3	915.7
27.5°	980.7	994.2	1004.3	1010.3	1006.9	993.4	974.0	952.0	927.5	906.4	884.5
30°	1009.4	1015.3	1014.5	1009.4	996.8	975.7	952.9	926.7	897.2	874.4	845.7
32.5°	1014.5	1003.5	986.6	968.1	951.2	927.5	901.4	871.0	838.1	808.5	779.8
35°	1005.2	963.8	926.7	889.6	864.2	834.7	811.9	776.5	740.2	714.9	693.8
37.5°	970.6	898.9	839.8	787.4	750.3	716.5	681.9	647.3	617.0	605.1	599.2
40°	926.7	818.7	728.4	655.8	616.1	583.2	547.8	519.9	505.6	494.6	490.4
42.5°	862.6	727.5	615.3	537.6	487.0	456.6	422.0	406.8	400.1	402.6	399.2
45°	802.6	632.1	491.2	405.1	370.5	341.8	324.9	318.2	314.8	313.1	315.7
47.5°	760.4	558.7	395.8	308.1	279.4	259.1	252.4	249.8	249.0	245.6	244.8
50°	750.3	515.7	324.1	239.7	217.7	206.8	203.4	200.9	199.2	196.6	190.7
52.5°	762.1	503.9	288.6	205.9	187.4	178.9	176.4	172.2	170.5	163.7	156.1
55°	782.4	508.1	277.7	196.6	178.1	168.8	165.4	163.7	157.8	150.2	140.9
57.5°	824.6	534.2	282.7	199.2	179.8	171.3	169.6	168.0	160.4	149.4	137.6
60°	947.0	610.2	308.9	216.9	193.3	187.4	188.2	184.8	173.9	159.5	141.8
62.5°	1136.0	728.4	357.0	238.8	215.2	215.2	220.3	217.7	200.9	177.2	151.9
65°	1233.9	799.3	377.3	245.6	222.0	232.9	249.0	246.4	222.0	186.5	152.8
67°	1218.7	785.8	365.4	235.5	209.3	223.7	239.7	240.5	213.5	178.1	146.0
67.5°	1204.4	776.5	359.5	231.3	205.9	220.3	235.5	232.9	210.2	174.7	144.3
70°	1082.0	681.9	320.7	216.1	190.7	195.0	199.2	195.8	178.1	154.5	133.4
72.5°	934.3	566.3	282.7	206.8	182.3	175.6	175.6	169.6	157.8	141.8	126.6
75°	712.3	440.6	248.1	196.6	172.2	162.0	160.4	156.1	146.0	134.2	120.7
77.5°	434.7	315.7	215.2	181.5	159.5	151.1	151.9	149.4	139.3	128.3	115.6
80°	217.7	204.2	180.6	157.8	144.3	135.9	136.7	131.7	123.2	114.8	104.7
82.5°	133.4	140.9	126.6	119.8	111.4	102.1	79.3	92.8	90.3	82.7	78.5
85°	88.6	87.8	79.3	70.1	64.1	55.7	49.8	50.6	55.7	57.4	57.4
87.5°	43.0	41.4	38.0	35.4	33.8	27.9	26.2	29.5	29.5	31.2	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):

	160°	165°	170°	175°	180°
0°	997.6	997.6	997.6	997.6	997.6
2.5°	1024.6	1026.3	1025.4	1028.0	1025.4
5°	1036.4	1036.4	1037.3	1038.1	1037.3
7.5°	1030.5	1029.7	1031.4	1033.0	1032.2
10°	1019.5	1020.4	1022.1	1024.6	1024.6
12.5°	1015.3	1016.2	1019.5	1022.1	1022.1
15°	1011.9	1012.8	1014.5	1017.9	1015.3
17.5°	996.8	993.4	993.4	995.9	993.4
20°	969.7	964.7	964.7	963.8	963.0
22.5°	937.7	925.0	921.6	917.4	918.3
25°	898.0	881.1	871.8	866.8	865.1
27.5°	865.9	846.5	837.2	829.6	827.1
30°	825.4	803.5	795.9	791.7	790.0
32.5°	766.3	746.9	736.8	734.3	729.2
35°	676.9	668.4	664.2	658.3	659.2
37.5°	587.4	584.9	574.8	578.1	574.8
40°	491.2	490.4	492.0	489.5	495.4
42.5°	400.9	398.4	402.6	400.1	402.6
45°	310.6	315.7	321.6	319.0	322.4
47.5°	238.0	238.8	237.2	238.8	240.5
50°	183.1	181.5	179.8	176.4	178.1
52.5°	151.1	145.2	140.9	138.4	137.6
55°	133.4	127.4	124.1	120.7	120.7
57.5°	128.3	120.7	115.6	113.1	112.3
60°	129.1	119.0	112.3	108.0	107.2
62.5°	132.5	119.0	109.7	105.5	103.8
65°	131.7	117.3	108.0	103.8	102.1
67°	127.4	114.8	107.2	103.0	102.1
67.5°	125.8	113.9	107.2	103.0	101.3
70°	119.8	111.4	105.5	101.3	99.6
72.5°	114.8	108.0	101.3	97.9	96.2
75°	109.7	103.0	97.1	93.7	92.8
77.5°	104.7	97.1	92.8	88.6	85.2
80°	95.4	86.9	81.0	74.3	72.6
82.5°	78.5	71.7	65.8	59.9	59.1
85°	58.2	55.7	50.6	45.6	45.6
87.5°	32.1	35.4	31.2	28.7	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)