

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: P181712

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181712
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: ICS-F04-LED-E1-T4-8030
Description: ICON SITE SMALL 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: 7580.4 lumens
Efficiency: N/A
Efficacy: 74.2 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

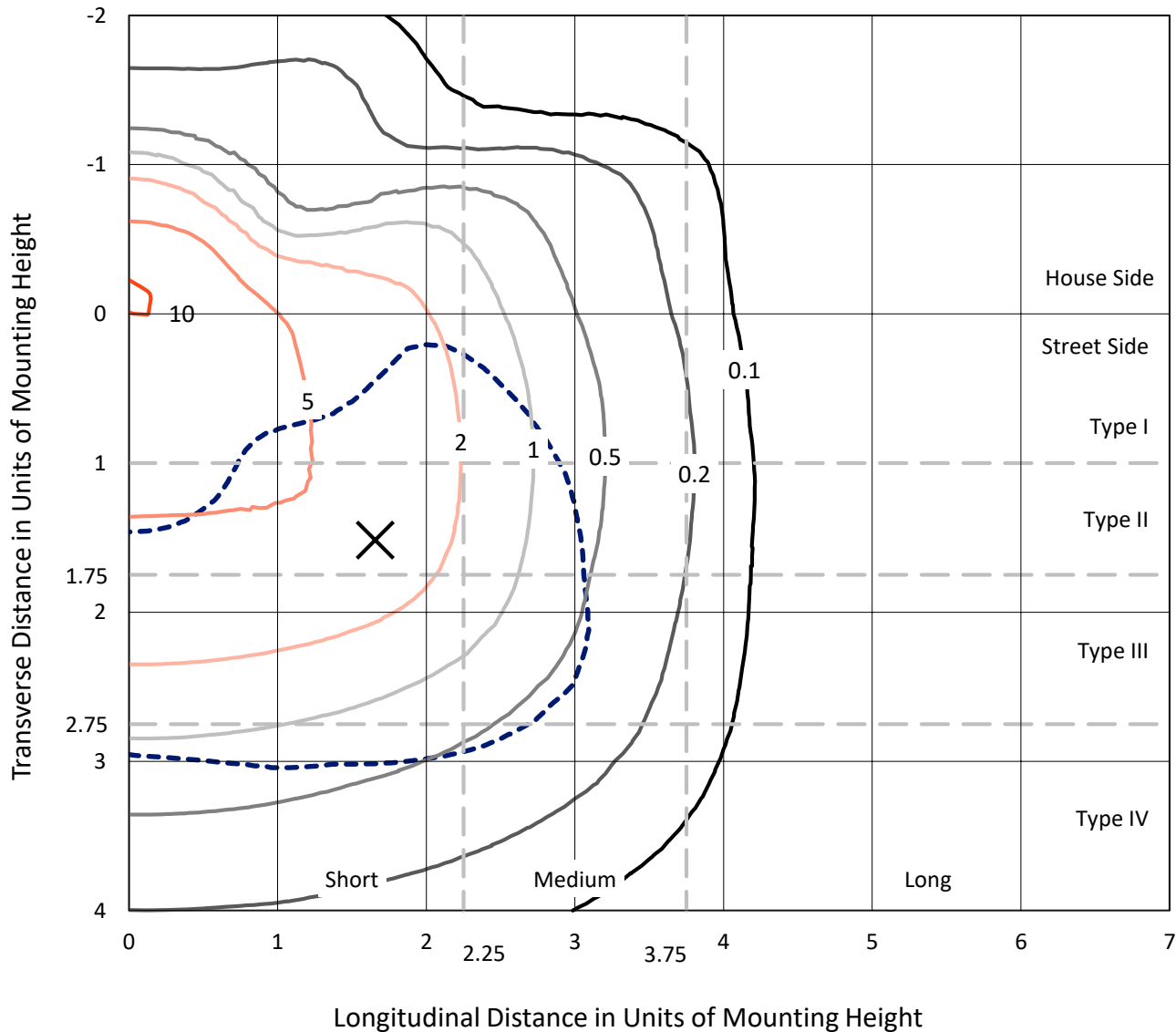
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

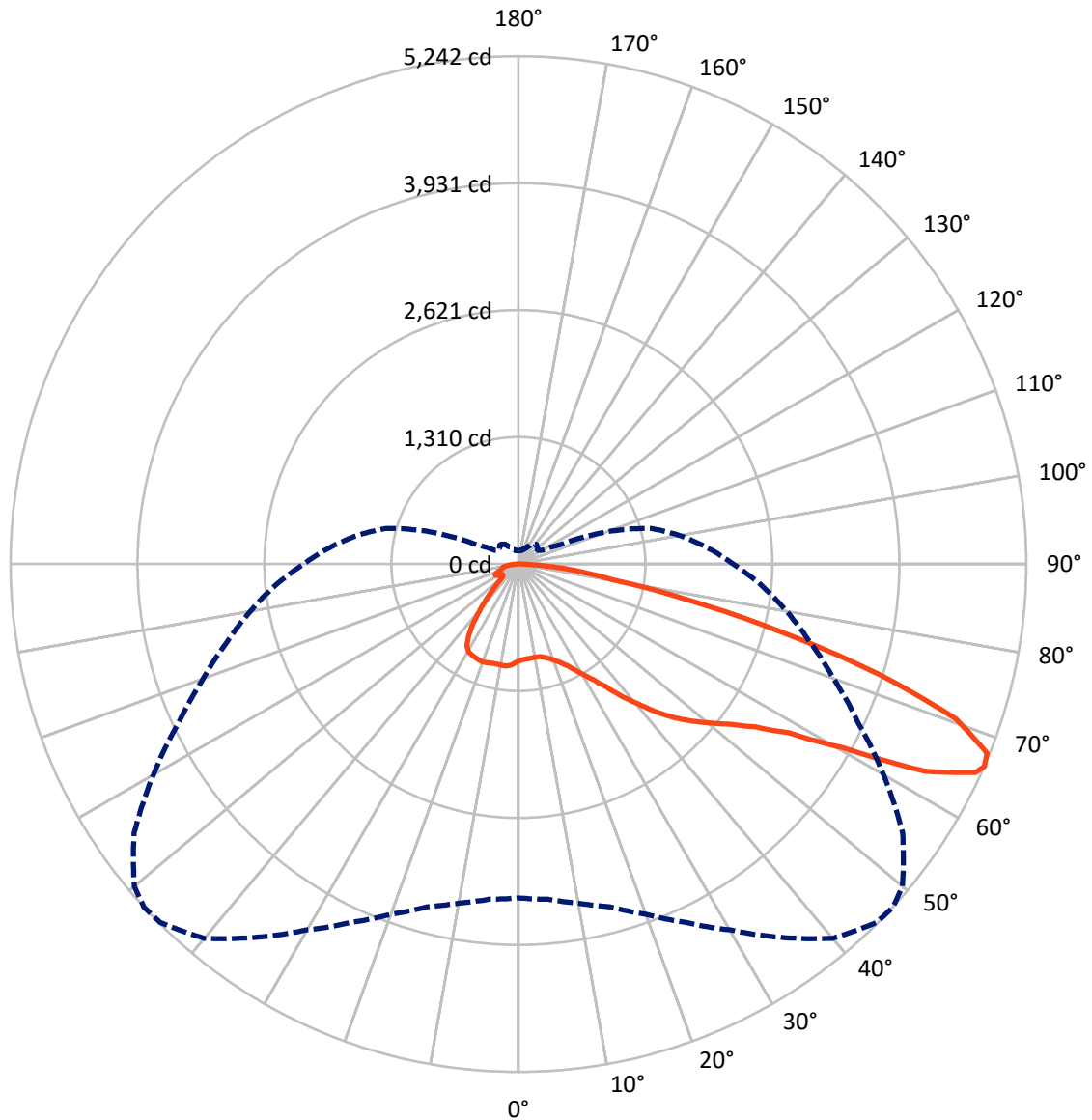
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 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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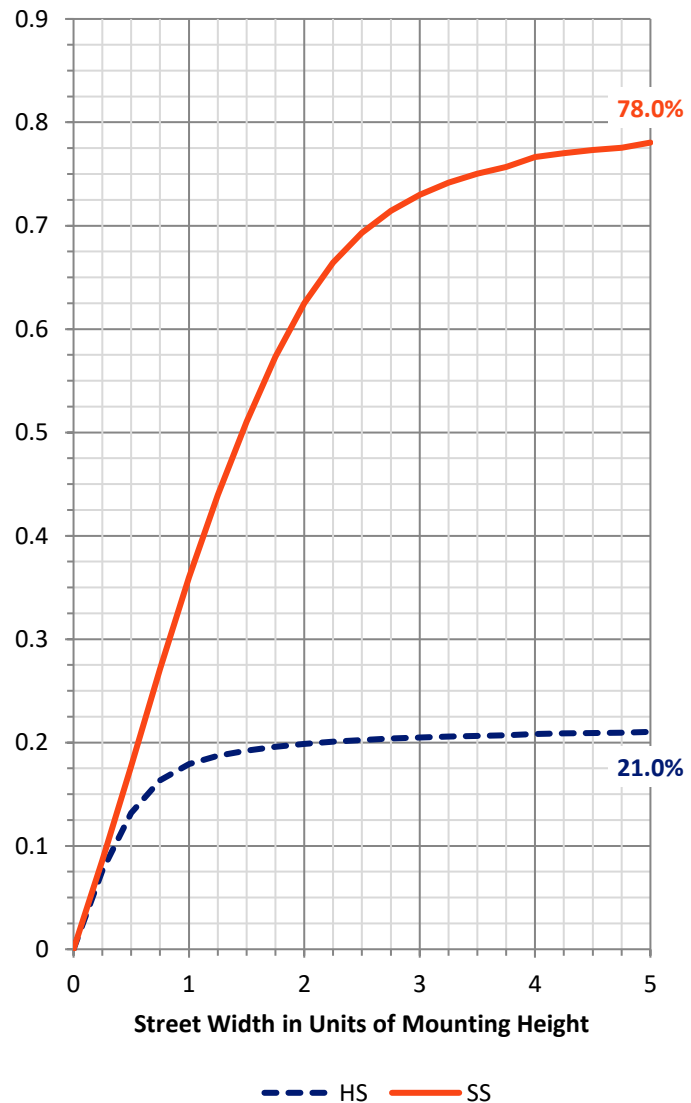
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1617.5	0.0	1617.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	5963.0	0.0	5963.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	7580.4	0.0	7580.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	1.3
10°-20°	294.6	3.9
20°-30°	507.4	6.7
30°-40°	767.7	10.1
40°-50°	995.0	13.1
50°-60°	1371.8	18.1
60°-70°	2131.3	28.1
70°-80°	1239.4	16.3
80°-90°	176.2	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°	7580.4	100.0
0°-180°	7580.4	100.0



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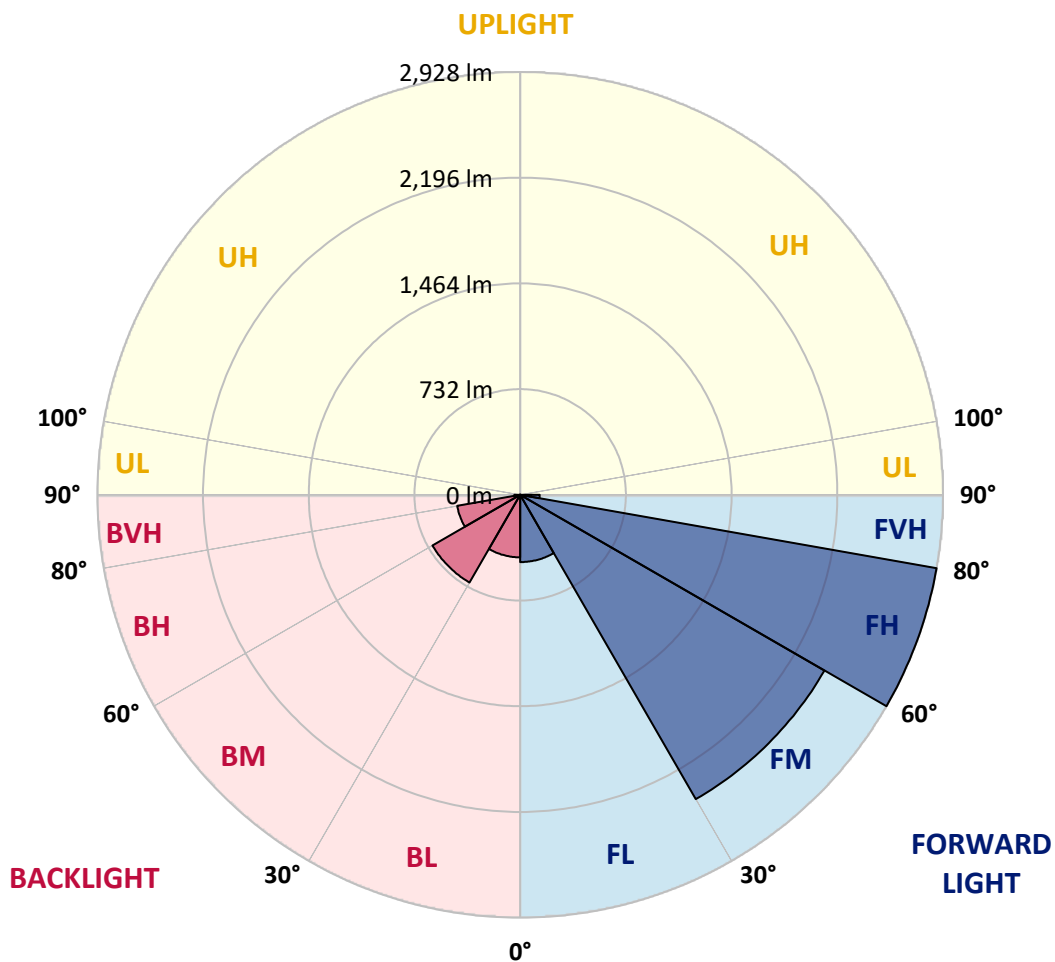
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	466.1	6.1			
FM	(30°-60°)	2433.3	32.1			
FH	(60°-80°)	2928.3	38.6			G2/5000
FVH	(80°-90°)	135.3	1.8			G2/225
BL	(0°-30°)	433.0	5.7	B1/500		
BM	(30°-60°)	701.2	9.2	B1/1000		
BH	(60°-80°)	442.4	5.8	B1/500		G1/500
BVH	(80°-90°)	41.0	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°	47.5°
0°	999.2	999.2	999.2	999.2	999.2	999.2	999.2	999.2	999.2	999.2	999.2
2.5°	980.8	984.1	981.6	982.5	982.5	983.3	983.3	984.1	983.3	985.8	987.5
5°	963.2	964.9	964.1	965.7	967.4	970.7	969.9	974.1	974.9	977.4	981.6
7.5°	956.5	954.9	955.7	958.2	959.9	961.5	963.2	966.6	969.1	974.9	978.3
10°	963.2	962.4	963.2	964.9	964.9	965.7	964.1	967.4	969.1	974.1	977.4
12.5°	990.8	990.8	989.1	989.1	987.5	985.8	981.6	979.1	978.3	979.1	980.8
15°	1035.1	1033.5	1030.1	1027.6	1024.3	1018.4	1012.6	1007.5	1004.2	999.2	997.5
17.5°	1078.6	1076.1	1072.8	1069.4	1065.2	1059.4	1050.2	1044.3	1035.1	1029.3	1025.9
20°	1128.8	1123.8	1119.6	1115.4	1107.0	1105.4	1096.2	1086.1	1075.3	1061.9	1060.2
22.5°	1194.0	1185.6	1180.6	1178.1	1169.7	1167.2	1152.2	1138.0	1124.6	1107.0	1102.9
25°	1260.0	1251.7	1249.2	1245.8	1240.0	1236.6	1222.4	1206.5	1189.0	1164.7	1159.7
27.5°	1324.4	1325.3	1318.6	1321.1	1319.4	1313.6	1299.3	1283.5	1270.1	1241.7	1235.8
30°	1404.7	1399.7	1396.3	1401.4	1395.5	1396.3	1383.8	1375.4	1353.7	1337.0	1325.3
32.5°	1488.3	1487.5	1492.5	1495.8	1495.0	1493.3	1483.3	1474.9	1455.7	1431.5	1426.4
35°	1602.9	1607.9	1612.1	1627.1	1627.1	1638.0	1627.9	1617.9	1595.3	1566.1	1556.0
37.5°	1680.6	1682.3	1699.0	1719.1	1744.2	1767.6	1774.3	1776.8	1767.6	1745.8	1730.8
40°	1751.7	1755.0	1781.8	1812.7	1849.5	1895.5	1923.1	1935.6	1938.1	1928.1	1895.5
42.5°	1822.8	1827.8	1855.4	1900.5	1951.5	2010.1	2058.5	2089.5	2107.0	2107.0	2087.8
45°	1905.5	1912.2	1942.3	1991.7	2051.0	2124.6	2191.5	2250.9	2279.3	2281.0	2262.6
47.5°	2003.4	2009.2	2044.3	2094.5	2155.5	2230.0	2314.4	2382.1	2434.8	2438.1	2423.1
50°	2129.6	2138.0	2167.2	2212.4	2275.1	2350.4	2434.8	2529.3	2584.5	2597.9	2582.0
52.5°	2296.8	2298.5	2322.8	2364.6	2425.6	2497.5	2587.0	2689.8	2762.6	2773.4	2747.5
55°	2527.6	2525.1	2541.0	2586.1	2632.1	2688.2	2781.0	2896.3	2977.5	2994.2	2967.4
57.5°	2841.2	2838.7	2852.0	2862.9	2949.0	3003.4	3094.5	3204.9	3283.5	3332.0	3286.0
60°	3327.0	3324.4	3346.2	3409.7	3474.1	3553.5	3642.2	3774.3	3884.7	3898.9	3853.7
62.5°	3679.0	3691.5	3739.2	3813.6	3944.0	4099.5	4261.7	4435.7	4662.3	4734.2	4712.4
65°	3556.1	3581.1	3647.2	3760.1	3934.0	4148.9	4403.1	4718.3	5021.8	5191.5	5186.5
66°	3445.7	3473.3	3554.4	3663.1	3847.0	4082.0	4359.6	4703.2	5042.7	5230.0	5241.7
67.5°	3245.0	3276.0	3355.4	3484.1	3663.1	3913.1	4211.6	4585.3	4969.1	5187.3	5218.3
70°	2854.5	2889.7	2947.4	3053.5	3230.0	3453.2	3767.6	4102.0	4504.2	4754.2	4791.9
72.5°	2386.3	2417.2	2481.6	2568.6	2713.2	2853.7	3100.4	3347.0	3634.6	3919.8	3892.2
75°	1713.2	1726.6	1765.1	1859.5	1937.3	2063.6	2261.7	2464.1	2660.6	2791.0	2809.4
77.5°	890.5	925.6	979.9	1084.5	1168.9	1282.6	1411.4	1563.6	1707.4	1826.9	1794.3
80°	582.8	597.8	646.3	699.8	761.7	834.5	920.6	977.4	995.8	988.3	995.8
82.5°	336.1	363.7	428.1	469.1	515.1	540.1	608.7	673.9	710.7	664.7	648.0
85°	42.6	55.2	173.9	219.1	250.8	288.5	309.4	348.7	325.3	291.0	354.5
87.5°	9.2	8.4	11.7	25.1	25.9	21.7	41.0	43.5	26.8	13.4	16.7
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	999.2	999.2	999.2	999.2	999.2	999.2	999.2	999.2	999.2	999.2	999.2
2.5°	989.1	990.0	991.6	994.2	995.8	997.5	999.2	1001.7	1003.4	1005.0	1008.4
5°	985.0	988.3	991.6	995.0	999.2	1005.9	1010.0	1013.4	1016.7	1023.4	1025.9
7.5°	982.5	988.3	993.3	999.2	1005.9	1011.7	1019.2	1023.4	1028.4	1032.6	1037.6
10°	980.8	989.1	994.2	1002.5	1010.0	1015.9	1024.3	1029.3	1035.1	1040.1	1042.7
12.5°	984.1	988.3	993.3	1001.7	1010.9	1019.2	1028.4	1032.6	1037.6	1041.8	1042.7
15°	998.3	998.3	999.2	1005.9	1015.1	1021.7	1029.3	1033.5	1036.0	1038.5	1038.5
17.5°	1024.3	1018.4	1014.2	1015.1	1020.9	1025.1	1029.3	1029.3	1027.6	1026.8	1025.1
20°	1054.4	1046.8	1038.5	1032.6	1030.9	1027.6	1025.1	1016.7	1010.0	1004.2	1000.0
22.5°	1097.8	1086.1	1074.4	1063.6	1053.5	1041.0	1026.8	1010.0	994.2	983.3	976.6
25°	1151.3	1142.2	1127.9	1111.2	1098.7	1075.3	1056.9	1032.6	1012.6	998.3	986.6
27.5°	1227.4	1216.6	1203.2	1188.1	1169.7	1143.8	1121.2	1092.8	1068.6	1047.7	1032.6
30°	1321.9	1307.7	1297.7	1279.3	1266.7	1237.5	1214.9	1179.8	1133.0	1099.5	1078.6
32.5°	1418.9	1403.0	1394.7	1380.4	1366.2	1348.7	1314.4	1260.0	1199.8	1145.5	1109.5
35°	1548.5	1531.8	1516.7	1504.2	1483.3	1450.7	1420.6	1355.4	1272.6	1196.5	1136.3
37.5°	1711.6	1684.0	1646.3	1614.6	1577.8	1531.0	1485.0	1418.1	1323.6	1224.9	1144.7
40°	1885.5	1837.0	1783.5	1724.1	1660.6	1592.8	1540.1	1472.4	1366.2	1249.2	1138.8
42.5°	2066.9	1990.0	1915.6	1832.0	1743.3	1663.1	1594.5	1520.1	1398.0	1255.9	1115.4
45°	2246.7	2160.6	2047.7	1938.1	1826.1	1726.6	1649.7	1566.1	1427.3	1258.4	1084.5
47.5°	2395.5	2306.9	2178.1	2041.0	1908.0	1795.2	1704.9	1614.6	1466.6	1275.9	1076.9
50°	2552.7	2444.8	2301.9	2139.7	1989.1	1862.9	1766.7	1673.1	1521.8	1321.1	1101.2
52.5°	2724.1	2600.4	2433.1	2251.7	2087.0	1945.7	1841.2	1745.0	1592.0	1384.6	1147.2
55°	2933.1	2781.8	2600.4	2395.5	2219.1	2062.7	1947.3	1833.6	1675.6	1459.9	1204.9
57.5°	3252.5	3066.9	2862.9	2629.6	2434.0	2249.2	2111.2	1980.0	1805.2	1571.9	1283.5
60°	3830.3	3632.1	3367.1	3084.5	2854.5	2638.8	2436.5	2273.4	2058.5	1792.7	1457.4
62.5°	4658.1	4394.7	4041.0	3645.5	3344.5	3033.5	2805.2	2562.7	2296.0	2009.2	1662.2
65°	5117.9	4798.5	4325.3	3866.3	3479.1	3141.3	2851.2	2570.3	2274.3	2000.0	1709.9
66°	5174.8	4842.0	4350.4	3867.1	3460.7	3113.7	2808.6	2517.6	2214.9	1953.2	1689.8
67.5°	5151.4	4811.1	4304.4	3794.3	3381.3	3008.4	2693.2	2391.3	2089.5	1845.3	1622.9
70°	4767.6	4444.9	3947.4	3453.2	3061.1	2693.2	2392.2	2095.3	1818.6	1609.5	1445.7
72.5°	3959.1	3683.1	3250.9	2862.9	2555.2	2251.7	1996.7	1713.2	1479.1	1324.4	1227.4
75°	2857.9	2690.7	2296.8	2074.4	1804.4	1602.9	1355.4	1187.3	1019.2	944.0	927.3
77.5°	1805.2	1580.3	1330.3	1095.3	900.5	746.7	581.1	493.3	411.4	403.0	486.6
80°	913.9	822.8	633.8	505.0	424.8	343.6	271.7	205.7	143.8	173.1	207.4
82.5°	598.7	499.2	391.3	321.9	280.1	232.4	180.6	125.4	92.0	103.7	142.1
85°	323.6	275.9	222.4	175.6	142.1	127.1	85.3	60.2	59.4	63.5	81.1
87.5°	23.4	23.4	18.4	16.7	20.1	16.7	15.1	15.1	14.2	15.1	20.1
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	999.2	999.2	999.2	999.2	999.2	999.2	999.2	999.2	999.2	999.2	999.2
2.5°	1010.0	1012.6	1013.4	1017.6	1020.1	1021.7	1023.4	1023.4	1024.3	1026.8	1027.6
5°	1029.3	1033.5	1038.5	1041.8	1043.5	1048.5	1050.2	1050.2	1051.8	1055.2	1057.7
7.5°	1041.0	1046.8	1051.8	1053.5	1056.9	1058.5	1061.0	1062.7	1062.7	1066.1	1067.7
10°	1045.2	1048.5	1053.5	1053.5	1056.9	1056.9	1059.4	1060.2	1060.2	1063.6	1066.1
12.5°	1045.2	1046.8	1051.0	1051.0	1053.5	1054.4	1057.7	1060.2	1061.0	1065.2	1068.6
15°	1040.1	1041.8	1045.2	1046.0	1051.8	1055.2	1062.7	1067.7	1067.7	1071.9	1073.6
17.5°	1025.9	1030.1	1036.8	1043.5	1054.4	1061.9	1071.1	1075.3	1071.9	1069.4	1066.9
20°	1002.5	1010.0	1025.9	1042.7	1061.9	1071.9	1076.9	1072.8	1061.0	1049.3	1041.8
22.5°	979.1	994.2	1020.9	1046.0	1067.7	1074.4	1071.9	1056.9	1037.6	1023.4	1013.4
25°	990.0	1007.5	1033.5	1056.0	1070.2	1068.6	1058.5	1037.6	1016.7	998.3	981.6
27.5°	1035.1	1054.4	1068.6	1076.1	1074.4	1062.7	1046.8	1023.4	998.3	974.1	950.7
30°	1077.8	1087.8	1091.1	1085.3	1071.9	1052.7	1032.6	1005.9	972.4	942.3	915.6
32.5°	1097.0	1087.0	1071.1	1055.2	1033.5	1016.7	989.1	959.9	918.1	882.1	855.4
35°	1097.0	1056.9	1016.7	983.3	950.7	929.8	898.0	858.7	820.2	790.1	769.2
37.5°	1072.8	995.8	929.8	875.4	834.5	811.9	764.2	729.1	696.5	686.5	673.1
40°	1028.4	914.7	819.4	748.3	696.5	663.0	615.4	591.1	578.6	573.6	571.1
42.5°	969.1	824.4	697.3	609.5	553.5	515.9	484.1	469.1	468.2	467.4	467.4
45°	905.5	727.4	578.6	474.1	424.8	391.3	376.3	370.4	375.4	374.6	375.4
47.5°	866.2	653.9	469.9	358.7	321.1	299.3	291.8	294.3	298.5	296.8	296.8
50°	861.2	616.2	397.2	279.3	250.8	240.0	238.3	238.3	240.8	239.1	238.3
52.5°	879.6	610.4	359.5	240.0	217.4	208.2	206.5	205.7	204.9	199.8	195.7
55°	911.4	623.8	348.7	229.9	206.5	196.5	194.0	192.3	189.0	182.3	174.8
57.5°	974.9	665.6	358.7	235.0	209.9	201.5	199.0	199.0	192.3	181.4	170.6
60°	1127.9	771.7	399.7	254.2	225.8	217.4	219.1	218.2	208.2	192.3	175.6
62.5°	1325.3	910.5	453.2	280.9	245.8	244.1	252.5	250.8	234.1	209.9	185.6
65°	1416.4	975.8	468.2	286.8	250.0	257.5	274.3	272.6	251.7	218.2	187.3
66°	1418.1	975.8	461.5	281.8	244.1	253.3	270.1	269.2	248.3	214.9	183.9
67.5°	1383.8	949.0	442.3	271.7	232.4	239.1	254.2	253.3	234.1	206.5	177.3
70°	1255.0	849.5	393.0	254.2	216.6	213.2	218.2	214.9	202.3	183.1	163.0
72.5°	1075.3	713.2	342.8	240.8	205.7	192.3	189.0	186.5	176.4	165.6	153.0
75°	847.0	564.4	301.0	230.8	195.7	178.1	172.2	168.9	162.2	154.7	144.7
77.5°	522.6	403.8	262.5	217.4	188.1	170.6	166.4	161.4	151.3	142.1	134.6
80°	233.3	250.0	215.7	189.8	168.1	152.2	145.5	138.0	127.9	122.1	117.9
82.5°	155.5	161.4	156.4	142.1	127.1	114.5	104.5	104.5	102.8	97.8	96.2
85°	99.5	100.3	97.0	87.8	81.9	74.4	70.2	71.1	74.4	73.6	72.7
87.5°	22.6	22.6	26.8	25.1	29.3	30.9	33.4	36.0	41.0	41.0	43.5
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°	999.2	999.2	999.2	999.2	999.2
2.5°	1028.4	1030.1	1031.8	1029.3	1030.1
5°	1057.7	1056.9	1061.0	1058.5	1060.2
7.5°	1066.9	1067.7	1071.1	1071.1	1071.9
10°	1067.7	1069.4	1073.6	1076.1	1077.8
12.5°	1071.9	1075.3	1081.9	1083.6	1083.6
15°	1075.3	1076.9	1081.1	1082.8	1084.5
17.5°	1063.6	1060.2	1061.9	1062.7	1061.9
20°	1034.3	1030.9	1030.1	1026.8	1028.4
22.5°	1002.5	993.3	987.5	980.8	980.8
25°	964.1	949.8	938.1	926.4	928.9
27.5°	928.1	909.7	898.0	890.5	888.8
30°	893.0	873.8	862.9	853.7	853.7
32.5°	834.5	821.1	806.9	801.0	800.2
35°	753.4	745.0	733.3	730.8	726.6
37.5°	662.2	659.7	649.7	648.8	644.7
40°	566.9	568.6	565.2	563.6	561.0
42.5°	471.6	479.9	478.3	477.4	475.8
45°	380.4	386.3	387.1	389.6	393.8
47.5°	299.3	301.0	302.7	301.8	302.7
50°	234.1	229.9	229.1	226.6	229.1
52.5°	189.0	182.3	178.9	175.6	173.9
55°	166.4	159.7	156.4	154.7	153.0
57.5°	160.5	153.8	148.8	145.5	144.7
60°	162.2	152.2	145.5	141.3	140.5
62.5°	166.4	153.0	143.8	139.6	138.8
65°	165.6	151.3	143.0	138.0	137.1
66°	163.0	149.7	141.3	137.1	136.3
67.5°	158.9	147.2	139.6	136.3	134.6
70°	151.3	143.8	138.0	133.8	132.1
72.5°	144.7	138.8	133.8	129.6	128.8
75°	137.1	132.1	127.1	123.7	122.9
77.5°	127.9	122.9	119.6	117.1	116.2
80°	112.9	109.5	106.2	102.8	102.8
82.5°	93.6	91.1	87.8	85.3	84.4
85°	71.9	71.9	69.4	66.9	66.1
87.5°	42.6	41.8	41.8	39.3	39.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)