

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: P181299

Luminaire Tested: **ICS-E03-LED-E1-T2**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181299
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-E03-LED-E1-T2
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8272.9 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

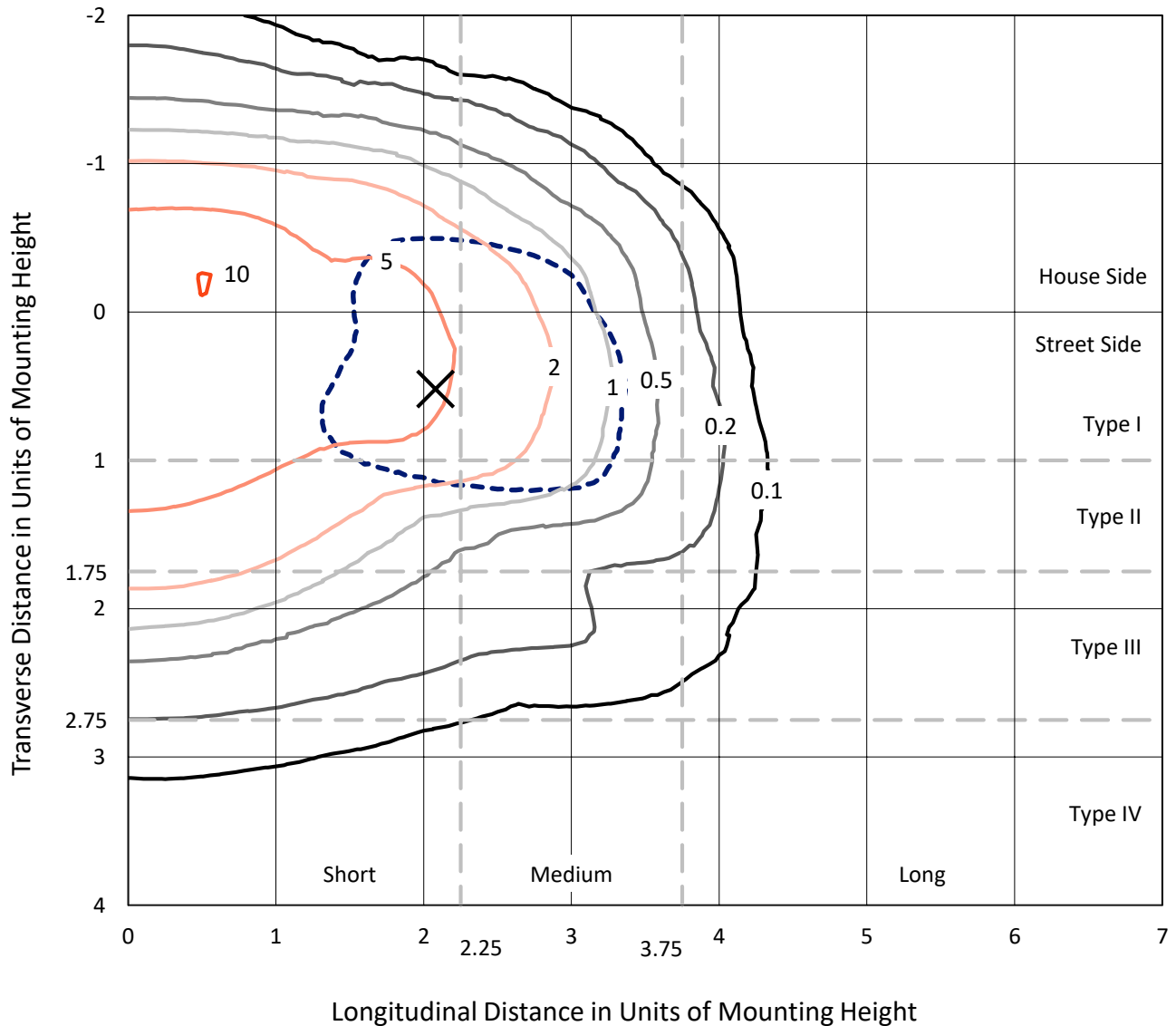
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

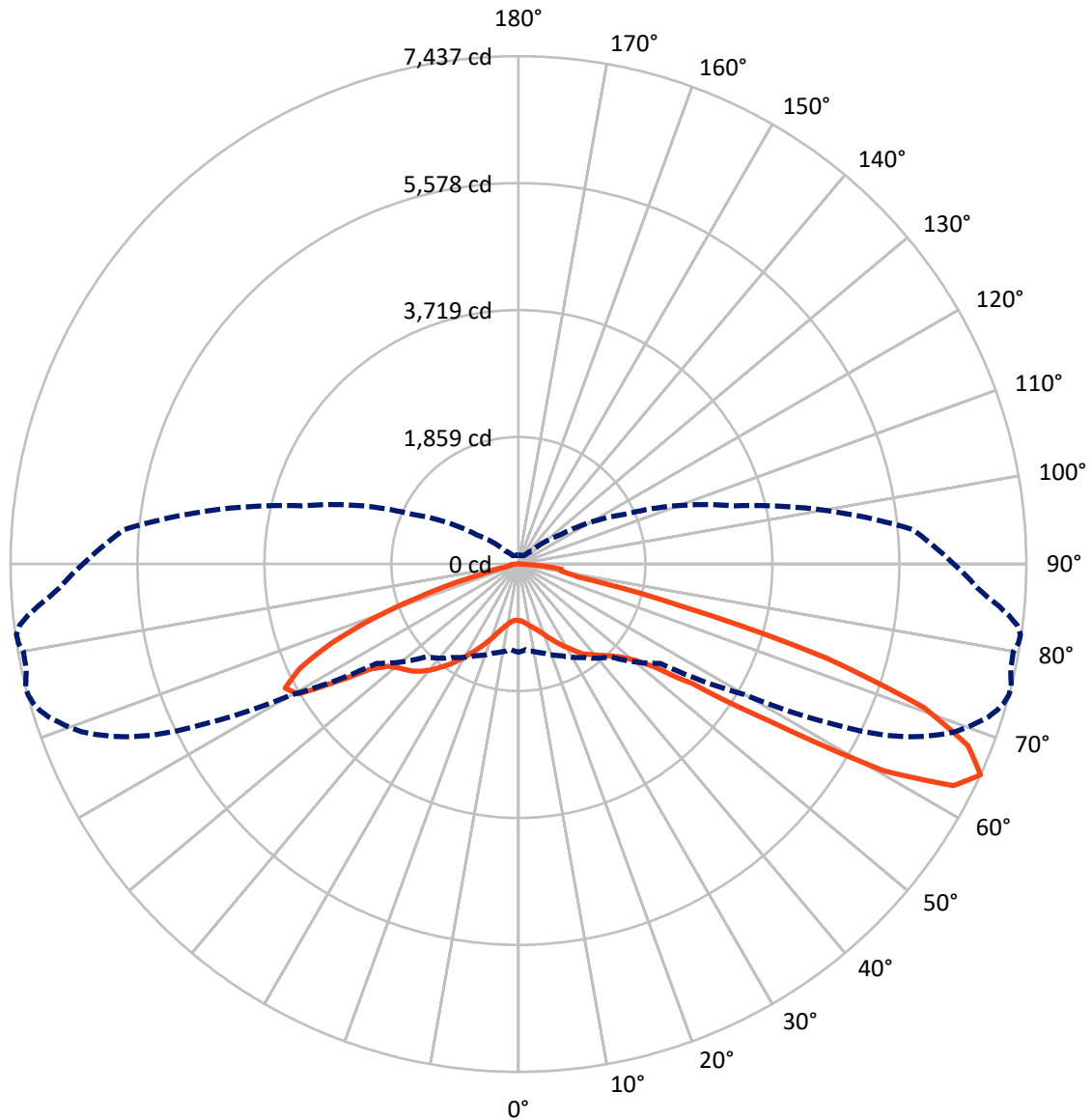
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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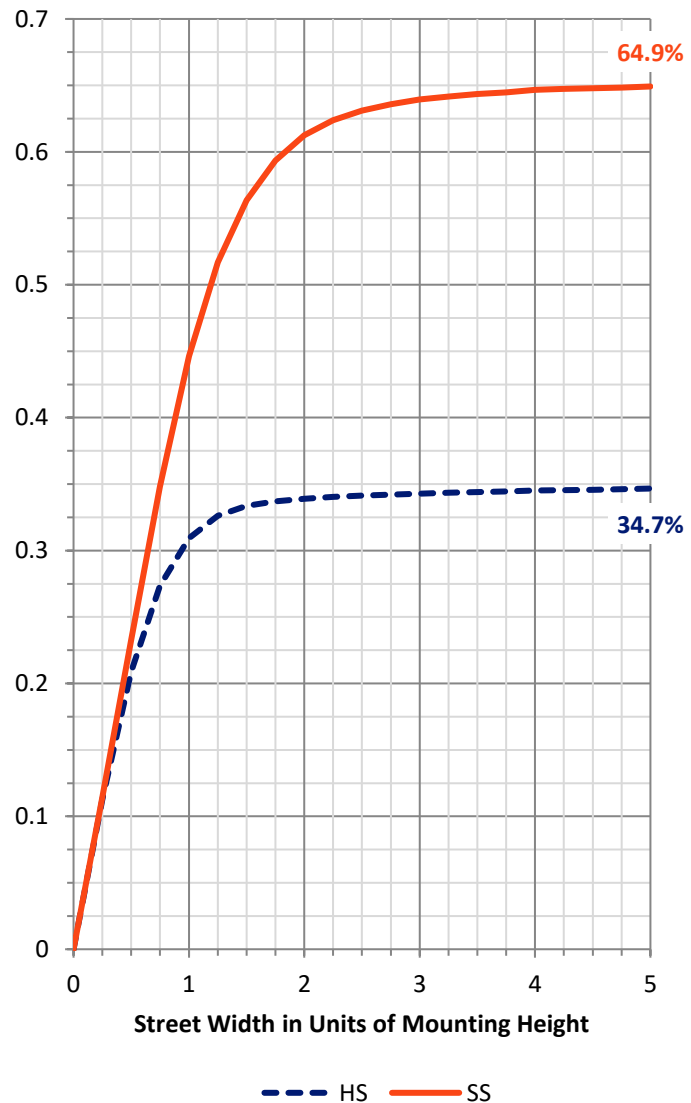
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2896.9	0.0	2896.9
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	5375.9	0.0	5375.9
	% Fixture	65.0	0.0	65.0
Total	Lumens	8272.9	0.0	8272.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	1.0
10°-20°	284.5	3.4
20°-30°	558.9	6.8
30°-40°	928.7	11.2
40°-50°	1364.6	16.5
50°-60°	1889.3	22.8
60°-70°	2255.1	27.3
70°-80°	797.5	9.6
80°-90°	111.4	1.3
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°	8272.9	100.0
0°-180°	8272.9	100.0

Coefficient of Utilization



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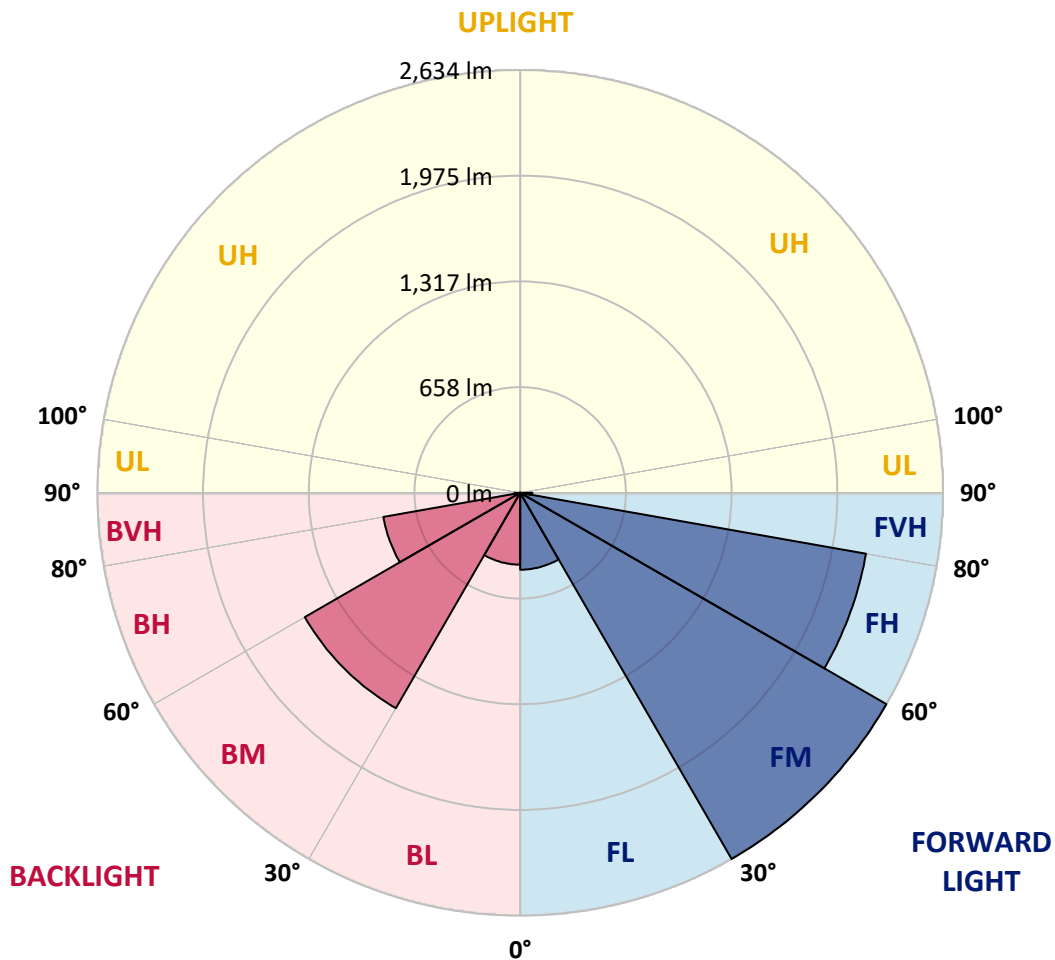
CATALOG NUMBER: ICS-E03-LED-E1-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	478.7	5.8			
FM	(30°-60°)	2633.8	31.8			
FH	(60°-80°)	2187.2	26.4			G2/5000
FVH	(80°-90°)	76.2	0.9			G1/100
BL	(0°-30°)	447.6	5.4	B1/500		
BM	(30°-60°)	1548.8	18.7	B2/2500		
BH	(60°-80°)	865.3	10.5	B2/1000		G2/1000
BVH	(80°-90°)	35.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1
2.5°	863.1	864.0	862.2	861.3	858.6	854.1	850.5	846.9	846.9	846.9	844.2
5°	900.9	902.7	899.1	896.4	888.3	883.8	877.5	873.0	871.2	870.3	867.6
7.5°	948.7	946.0	940.6	938.8	932.5	922.6	910.8	901.8	901.8	900.9	901.8
10°	996.4	989.2	986.5	983.8	973.9	961.3	947.8	937.9	937.0	936.1	933.4
12.5°	1044.1	1041.4	1038.7	1028.8	1018.9	999.1	983.8	973.9	973.0	973.9	970.3
15°	1107.1	1100.8	1098.1	1081.0	1059.4	1037.8	1018.9	1009.9	1007.2	1008.1	1005.4
17.5°	1155.7	1155.7	1149.4	1130.5	1102.6	1072.9	1053.1	1047.7	1046.8	1046.8	1047.7
20°	1194.4	1193.5	1187.2	1171.9	1138.6	1108.9	1099.0	1097.2	1096.3	1096.3	1099.0
22.5°	1216.0	1214.2	1211.5	1194.4	1168.3	1148.5	1149.4	1154.8	1156.6	1158.4	1162.0
25°	1226.8	1224.1	1223.2	1211.5	1192.6	1189.9	1206.1	1220.5	1224.1	1227.7	1232.2
27.5°	1244.8	1240.3	1242.1	1237.6	1233.1	1241.2	1274.5	1289.8	1292.5	1297.0	1299.7
30°	1294.3	1292.5	1299.7	1301.5	1305.1	1316.8	1347.4	1361.8	1368.1	1368.1	1380.7
32.5°	1388.8	1389.7	1391.5	1410.4	1416.7	1424.8	1441.0	1452.7	1453.6	1454.5	1466.2
35°	1515.7	1521.1	1536.4	1552.6	1567.9	1567.0	1557.1	1563.4	1558.9	1564.3	1565.2
37.5°	1675.9	1668.7	1691.2	1728.1	1751.5	1745.2	1701.1	1672.3	1680.4	1676.8	1674.1
40°	1799.2	1807.3	1850.5	1899.1	1917.1	1936.9	1879.3	1829.8	1822.6	1809.1	1801.0
42.5°	1969.3	1970.2	2005.3	2041.3	2093.5	2136.7	2099.8	2028.7	2007.1	1990.9	1955.8
45°	2126.8	2124.1	2152.9	2197.0	2259.1	2321.2	2334.7	2257.3	2249.2	2220.4	2174.5
47.5°	2232.1	2228.5	2248.3	2305.9	2406.7	2508.4	2564.2	2540.8	2525.5	2513.8	2441.8
50°	2303.2	2296.0	2318.5	2379.7	2492.2	2648.8	2794.7	2814.5	2808.2	2808.2	2762.3
52.5°	2356.3	2356.3	2372.5	2422.0	2536.3	2731.6	2992.7	3092.6	3100.7	3109.7	3107.0
55°	2326.6	2331.1	2371.6	2443.6	2564.2	2789.3	3156.5	3375.2	3420.2	3458.0	3501.2
57.5°	2224.9	2240.2	2294.2	2412.1	2571.4	2832.5	3338.3	3771.2	3898.1	4007.9	4178.9
60°	2076.4	2096.2	2174.5	2324.8	2518.3	2762.3	3402.2	4106.0	4307.6	4547.0	4993.5
62.5°	1821.7	1841.5	1918.0	2068.3	2233.9	2493.1	3137.6	4155.5	4477.7	4817.1	5492.1
65°	1290.7	1259.2	1347.4	1482.4	1672.3	1923.4	2535.4	3823.4	4286.9	4746.9	5580.3
67.5°	719.1	716.4	770.4	871.2	1053.1	1323.1	1747.0	2932.4	3359.0	3880.1	4903.5
70°	495.9	501.3	535.5	644.4	794.7	1027.9	1244.8	1841.5	2148.4	2502.1	3508.4
72.5°	348.3	360.0	378.9	443.7	597.6	865.8	1271.8	1100.8	1253.8	1495.0	2109.7
75°	204.3	212.4	225.9	257.4	340.2	578.7	1316.8	967.6	967.6	1024.3	1276.3
77.5°	126.0	126.0	134.1	146.7	180.9	283.5	937.9	1087.3	1056.7	1024.3	1027.0
80°	64.8	69.3	81.0	87.3	100.8	129.6	421.2	1014.4	1112.5	1178.2	1132.3
82.5°	29.7	33.3	49.5	53.1	58.5	68.4	144.9	576.9	773.1	1018.0	1271.8
85°	15.3	15.3	26.1	32.4	35.1	31.5	53.1	233.1	352.8	538.2	842.4
87.5°	2.7	2.7	4.5	5.4	8.1	7.2	9.0	13.5	22.5	24.3	25.2
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1
2.5°	843.3	844.2	843.3	842.4	840.6	840.6	840.6	839.7	839.7	839.7	838.8
5°	867.6	864.0	864.9	863.1	862.2	861.3	862.2	860.4	858.6	859.5	858.6
7.5°	898.2	896.4	892.8	892.8	891.9	890.1	890.1	887.4	886.5	884.7	883.8
10°	932.5	928.0	929.8	928.0	928.9	925.3	923.5	921.7	919.9	919.9	920.8
12.5°	967.6	966.7	964.0	962.2	962.2	959.5	960.4	959.5	956.8	955.9	953.2
15°	1003.6	1003.6	1000.9	1001.8	1000.9	999.1	997.3	997.3	995.5	993.7	994.6
17.5°	1045.9	1045.9	1045.9	1045.9	1046.8	1044.1	1045.0	1043.2	1041.4	1045.0	1045.0
20°	1100.8	1104.4	1104.4	1103.5	1108.0	1105.3	1104.4	1108.9	1104.4	1110.7	1109.8
22.5°	1163.8	1167.4	1167.4	1171.0	1171.9	1174.6	1176.4	1174.6	1178.2	1181.8	1181.8
25°	1234.0	1237.6	1240.3	1245.7	1248.4	1246.6	1247.5	1252.0	1253.8	1257.4	1261.0
27.5°	1307.8	1308.7	1312.3	1318.6	1323.1	1324.9	1325.8	1333.0	1333.9	1335.7	1339.3
30°	1379.8	1388.8	1387.0	1395.1	1397.8	1400.5	1405.9	1408.6	1414.9	1418.5	1418.5
32.5°	1464.4	1462.6	1469.8	1476.1	1480.6	1485.1	1489.6	1493.2	1496.8	1498.6	1507.6
35°	1569.7	1573.3	1573.3	1574.2	1585.0	1585.9	1589.5	1597.6	1600.3	1605.7	1609.3
37.5°	1674.1	1667.8	1666.9	1666.9	1663.3	1666.0	1666.9	1667.8	1671.4	1672.3	1675.9
40°	1791.1	1783.0	1775.8	1771.3	1764.1	1754.2	1752.4	1747.9	1750.6	1749.7	1750.6
42.5°	1951.3	1928.8	1911.7	1899.1	1884.7	1873.9	1865.8	1854.1	1846.0	1836.1	1834.3
45°	2155.6	2113.3	2084.5	2063.8	2043.1	2013.4	1996.3	1978.3	1962.1	1945.9	1932.4
47.5°	2423.8	2378.8	2332.9	2295.1	2262.7	2215.0	2166.4	2139.4	2107.9	2080.0	2060.2
50°	2739.7	2685.7	2664.1	2611.0	2570.5	2498.5	2438.2	2394.1	2331.1	2288.8	2251.9
52.5°	3062.9	3049.4	3037.7	2992.7	2945.0	2903.6	2850.5	2773.1	2709.1	2660.5	2584.9
55°	3503.0	3509.3	3504.8	3480.5	3463.4	3423.8	3402.2	3334.7	3305.9	3235.7	3156.5
57.5°	4243.7	4294.1	4358.0	4383.2	4417.4	4385.0	4422.8	4468.7	4354.4	4394.0	4322.9
60°	5189.7	5421.0	5558.7	5727.9	5838.6	5993.4	6021.3	6061.8	6050.1	6072.6	6118.5
62.5°	5767.5	6042.0	6305.7	6497.5	6702.7	6816.1	6952.9	7048.3	7147.3	7213.9	7195.0
65°	5937.6	6220.2	6459.7	6669.4	6853.0	6991.6	7118.5	7238.2	7329.1	7393.0	7430.8
67.5°	5313.0	5682.0	5934.0	6179.7	6416.4	6562.3	6668.5	6784.6	6917.8	7028.5	7050.1
70°	3998.0	4551.5	4908.9	5203.2	5481.3	5677.5	5826.0	5934.0	6037.5	6116.7	6203.1
72.5°	2500.3	2984.6	3393.2	3774.8	4070.0	4340.0	4465.1	4704.6	4673.1	4733.4	4798.2
75°	1498.6	1734.4	1959.4	2228.5	2383.3	2608.3	2648.8	2688.4	2667.7	2600.2	2650.6
77.5°	1041.4	1080.1	1078.3	1063.0	1046.8	1007.2	955.9	928.0	909.0	882.0	892.8
80°	1047.7	964.0	836.1	702.9	580.5	499.5	467.1	467.1	500.4	548.1	595.8
82.5°	1252.0	1162.9	1036.9	867.6	687.6	559.8	474.3	440.1	446.4	495.0	556.2
85°	844.2	864.0	757.8	693.0	549.0	427.5	358.2	290.7	257.4	265.5	300.6
87.5°	30.6	36.9	13.5	18.0	12.6	10.8	10.8	11.7	8.1	9.9	9.0
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1
2.5°	837.9	837.0	837.0	835.2	835.2	834.3	834.3	833.4	832.5	832.5	831.6
5°	857.7	856.8	855.0	854.1	852.3	852.3	851.4	849.6	849.6	847.8	846.9
7.5°	885.6	883.8	882.0	881.1	880.2	877.5	877.5	875.7	875.7	873.9	873.0
10°	918.9	917.1	915.3	916.2	913.5	912.6	910.8	910.8	908.1	907.2	907.2
12.5°	955.0	954.1	954.1	951.4	950.5	949.6	946.0	946.0	946.0	944.2	945.1
15°	993.7	994.6	991.9	994.6	993.7	991.0	991.0	991.0	987.4	991.9	988.3
17.5°	1045.9	1048.6	1046.8	1047.7	1045.9	1045.9	1046.8	1045.9	1047.7	1047.7	1053.1
20°	1110.7	1111.6	1116.1	1114.3	1114.3	1113.4	1115.2	1116.1	1119.7	1117.9	1121.5
22.5°	1181.8	1186.3	1187.2	1190.8	1190.8	1189.9	1191.7	1195.3	1197.1	1199.8	1198.9
25°	1262.8	1265.5	1269.1	1264.6	1271.8	1271.8	1273.6	1278.1	1279.0	1279.0	1285.3
27.5°	1338.4	1345.6	1346.5	1351.0	1348.3	1350.1	1356.4	1359.1	1362.7	1362.7	1364.5
30°	1423.9	1426.6	1428.4	1433.8	1432.9	1433.8	1434.7	1439.2	1439.2	1443.7	1448.2
32.5°	1512.1	1513.9	1515.7	1521.1	1522.9	1526.5	1524.7	1528.3	1532.8	1533.7	1536.4
35°	1617.4	1619.2	1621.0	1629.1	1630.0	1636.3	1638.1	1636.3	1643.5	1639.0	1643.5
37.5°	1678.6	1686.7	1688.5	1693.9	1692.1	1696.6	1699.3	1702.9	1704.7	1708.3	1715.5
40°	1753.3	1756.0	1761.4	1764.1	1767.7	1768.6	1772.2	1774.9	1777.6	1785.7	1793.8
42.5°	1829.8	1833.4	1836.1	1839.7	1844.2	1847.8	1850.5	1858.6	1860.4	1865.8	1881.1
45°	1922.5	1920.7	1921.6	1922.5	1924.3	1928.8	1936.9	1945.0	1950.4	1963.0	1975.6
47.5°	2037.7	2026.0	2021.5	2014.3	2016.1	2026.0	2027.8	2041.3	2052.1	2063.8	2079.1
50°	2212.3	2180.8	2161.9	2143.0	2141.2	2146.6	2153.8	2168.2	2180.8	2196.1	2217.7
52.5°	2505.7	2445.4	2407.6	2355.4	2341.0	2338.3	2332.9	2341.0	2344.6	2365.3	2405.8
55°	3099.8	2988.2	2916.2	2835.2	2759.6	2737.0	2693.8	2702.8	2693.8	2706.4	2766.8
57.5°	4340.0	4250.9	4180.7	4077.2	3947.6	3809.9	3775.7	3634.4	3662.3	3743.3	3691.1
60°	6141.0	6108.6	6058.2	6008.7	5831.4	5731.5	5568.6	5550.6	5436.3	5437.2	5362.5
62.5°	7149.1	7190.5	7159.9	7145.5	7135.6	7104.1	7023.1	6925.9	6780.1	6674.8	6520.0
65°	7437.1	7402.0	7368.7	7364.2	7361.5	7412.8	7424.5	7356.1	7223.8	7060.0	6881.8
67.5°	7101.4	7081.6	7083.4	7045.6	7069.0	7158.1	7220.2	7201.3	7079.8	6881.8	6655.0
70°	6302.1	6263.4	6303.0	6352.5	6387.6	6439.0	6501.1	6516.4	6405.6	6202.2	5970.9
72.5°	4719.0	4725.3	4763.1	4776.6	4917.9	4903.5	4959.3	4777.5	4697.4	4503.8	4385.0
75°	2483.2	2442.7	2548.0	2324.8	2233.0	2296.9	2117.8	1945.9	1981.9	2011.6	1797.4
77.5°	877.5	820.8	724.5	685.8	570.6	483.3	395.1	356.4	335.7	324.9	311.4
80°	630.0	648.0	628.2	581.4	494.1	396.0	312.3	246.6	211.5	192.6	180.0
82.5°	637.2	708.3	739.8	726.3	647.1	489.6	323.1	206.1	153.0	127.8	118.8
85°	342.0	374.4	360.0	303.3	272.7	162.9	111.6	74.7	63.0	57.6	53.1
87.5°	13.5	10.8	9.0	9.0	9.9	10.8	9.0	9.9	9.0	9.0	9.0
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1
2.5°	829.8	829.8	829.8	828.9	827.1	822.6	818.1	814.5	811.8	809.1	805.5
5°	846.0	844.2	844.2	844.2	837.0	829.8	823.5	817.2	811.8	807.3	803.7
7.5°	873.0	872.1	868.5	867.6	862.2	850.5	843.3	832.5	826.2	819.9	818.1
10°	905.4	904.5	903.6	902.7	895.5	883.8	874.8	864.9	855.9	846.9	837.9
12.5°	943.3	942.4	941.5	938.8	936.1	929.8	919.9	909.0	898.2	879.3	869.4
15°	990.1	991.9	990.1	989.2	987.4	988.3	982.0	966.7	949.6	925.3	904.5
17.5°	1052.2	1050.4	1049.5	1053.1	1052.2	1056.7	1054.9	1035.1	1009.0	970.3	934.3
20°	1120.6	1120.6	1124.2	1126.9	1135.0	1146.7	1141.3	1117.0	1069.3	1015.3	968.5
22.5°	1202.5	1204.3	1207.9	1206.1	1218.7	1237.6	1239.4	1205.2	1143.1	1068.4	1002.7
25°	1288.0	1289.8	1286.2	1291.6	1312.3	1339.3	1344.7	1296.1	1214.2	1117.0	1031.5
27.5°	1369.0	1370.8	1370.8	1378.0	1397.8	1443.7	1449.1	1395.1	1286.2	1159.3	1052.2
30°	1448.2	1455.4	1457.2	1459.0	1488.7	1552.6	1564.3	1486.0	1349.2	1190.8	1066.6
32.5°	1548.1	1550.8	1554.4	1558.9	1593.1	1671.4	1671.4	1564.3	1389.7	1210.6	1069.3
35°	1655.2	1656.1	1664.2	1665.1	1713.7	1792.0	1776.7	1629.1	1418.5	1206.1	1049.5
37.5°	1720.0	1723.6	1731.7	1742.5	1793.8	1904.5	1869.4	1684.9	1423.9	1176.4	1004.5
40°	1800.1	1807.3	1815.4	1826.2	1902.7	2018.8	1947.7	1720.0	1401.4	1117.9	937.0
42.5°	1886.5	1896.4	1909.0	1928.8	2019.7	2119.6	2007.1	1725.4	1350.1	1052.2	856.8
45°	1983.7	2001.7	2016.1	2039.5	2142.1	2206.9	2043.1	1693.9	1285.3	965.8	771.3
47.5°	2096.2	2110.6	2135.8	2161.0	2263.6	2266.3	2046.7	1632.7	1197.1	879.3	680.4
50°	2234.8	2243.8	2281.6	2296.9	2393.2	2328.4	2020.6	1549.9	1104.4	782.1	579.6
52.5°	2419.3	2431.9	2480.5	2503.9	2572.3	2413.0	1983.7	1459.9	998.2	673.2	476.1
55°	2783.9	2838.8	2873.0	2913.5	2957.6	2604.7	1967.5	1363.6	878.4	547.2	377.1
57.5°	3807.2	3789.2	3864.8	3956.6	3955.7	3043.1	2064.7	1280.8	737.1	418.5	289.8
60°	5331.9	5349.0	5310.3	5365.2	5190.6	3586.7	2197.9	1193.5	577.8	311.4	221.4
62.5°	6465.1	6366.0	6311.1	6246.3	5862.0	3646.1	2100.7	1014.4	420.3	218.7	170.1
65°	6733.3	6617.2	6499.3	6375.9	5796.3	3287.0	1723.6	744.3	271.8	150.3	135.0
67.5°	6468.7	6282.3	6132.0	6005.1	5311.2	2724.4	1260.1	457.2	155.7	121.5	115.2
70°	5782.8	5576.7	5333.7	5191.5	4472.3	2008.0	807.3	246.6	119.7	108.0	105.3
72.5°	4232.9	4063.7	3798.2	3635.3	3211.4	1220.5	450.9	138.6	111.6	103.5	99.9
75°	1648.9	1560.7	1450.0	1459.0	1302.4	540.0	204.3	119.7	108.9	101.7	98.1
77.5°	283.5	276.3	255.6	255.6	290.7	197.1	135.9	120.6	108.0	99.9	93.6
80°	170.1	166.5	158.4	156.6	151.2	138.6	130.5	122.4	106.2	94.5	86.4
82.5°	111.6	107.1	104.4	103.5	112.5	121.5	122.4	121.5	100.8	81.9	70.2
85°	47.7	47.7	47.7	48.6	64.8	98.1	100.8	108.0	82.8	63.9	50.4
87.5°	8.1	9.9	9.9	10.8	11.7	21.6	27.0	35.1	27.9	27.0	24.3
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):

	165°	175°	180°
0°	827.1	827.1	827.1
2.5°	804.6	802.8	802.8
5°	801.9	800.1	801.0
7.5°	812.7	809.1	810.0
10°	832.5	828.9	827.1
12.5°	857.7	853.2	853.2
15°	883.8	873.0	872.1
17.5°	905.4	891.9	890.1
20°	929.8	911.7	909.0
22.5°	952.3	928.0	924.4
25°	968.5	938.8	934.3
27.5°	975.7	940.6	937.0
30°	981.1	941.5	936.1
32.5°	975.7	933.4	928.9
35°	946.0	900.0	897.3
37.5°	894.6	843.3	839.7
40°	827.1	773.1	764.1
42.5°	740.7	690.3	680.4
45°	657.0	599.4	594.9
47.5°	567.0	512.1	514.8
50°	472.5	423.0	422.1
52.5°	382.5	339.3	336.6
55°	301.5	270.9	268.2
57.5°	238.5	222.3	219.6
60°	194.4	186.3	183.6
62.5°	156.6	153.9	153.0
65°	130.5	130.5	130.5
67.5°	113.4	114.3	114.3
70°	104.4	105.3	104.4
72.5°	100.8	103.5	103.5
75°	98.1	99.9	96.3
77.5°	96.3	97.2	90.9
80°	95.4	94.5	82.8
82.5°	82.8	80.1	70.2
85°	75.6	57.6	48.6
87.5°	38.7	27.0	20.7
90°	0.0	0.0	0.0

(END OF REPORT)