

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: P181251

Luminaire Tested: **ICM-F03-LED-E1-T2**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181251
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: ICM-F03-LED-E1-T2
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7058.5 lumens
Efficiency: N/A
Efficacy: 90.1 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

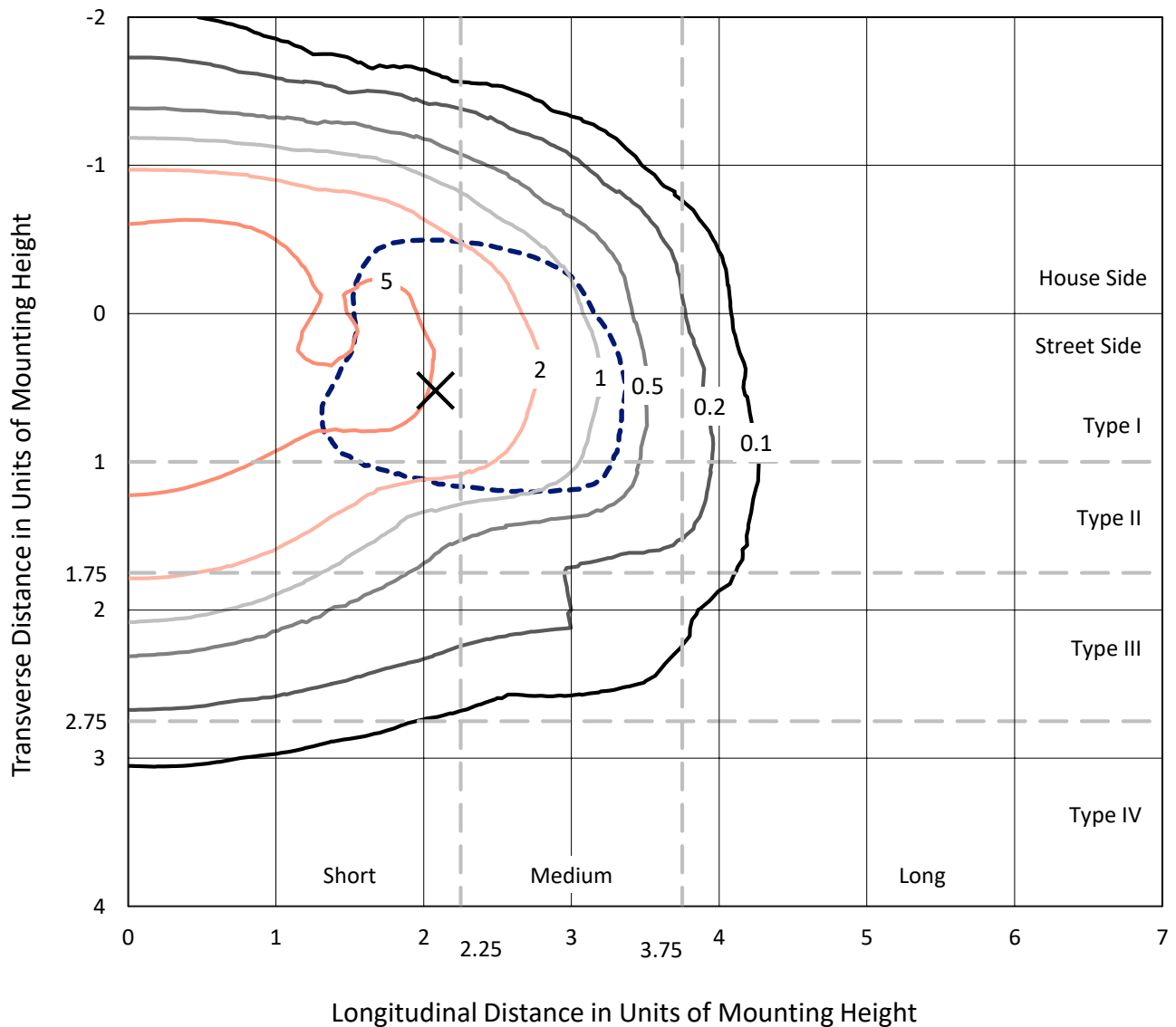
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

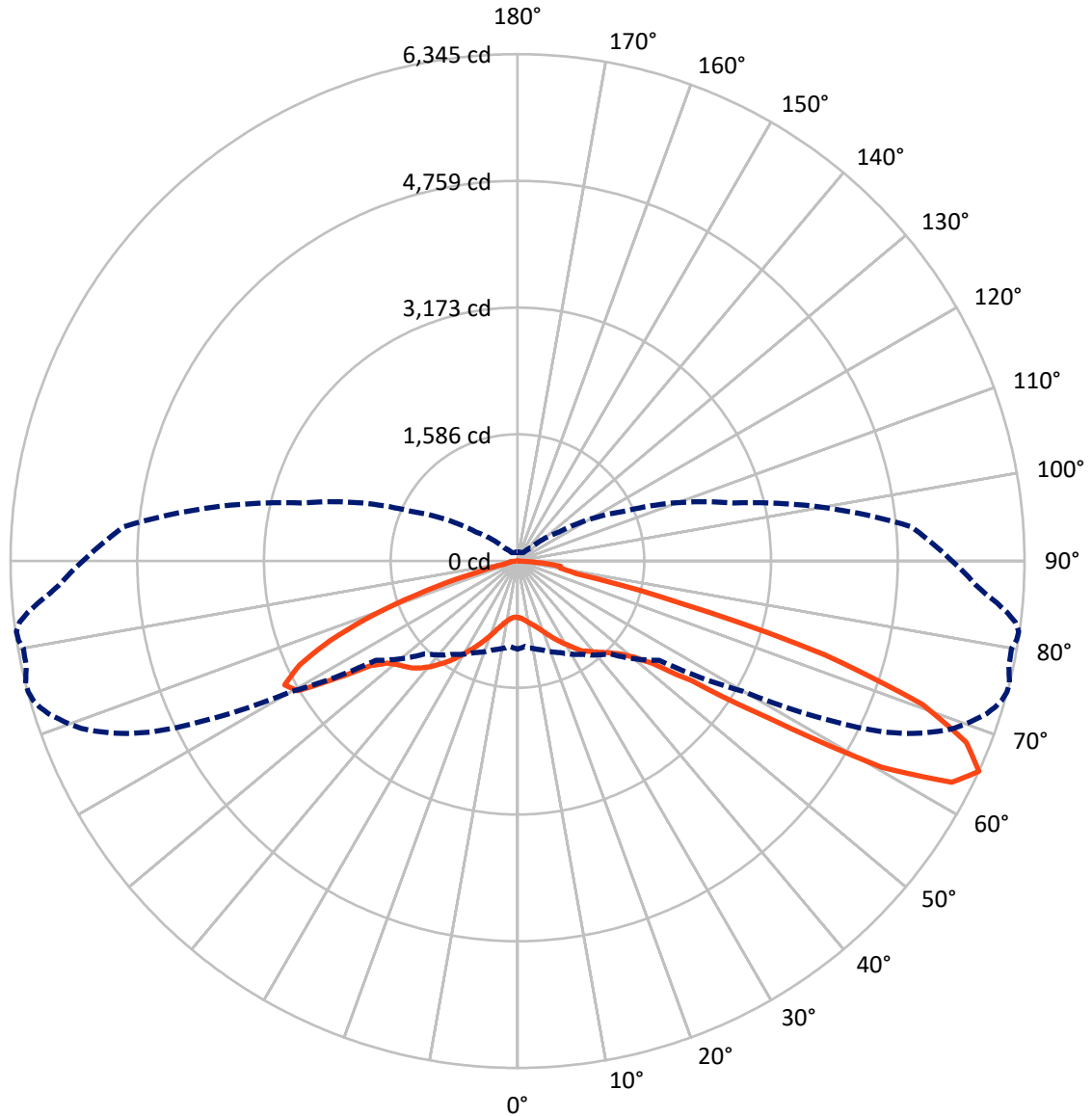
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.6 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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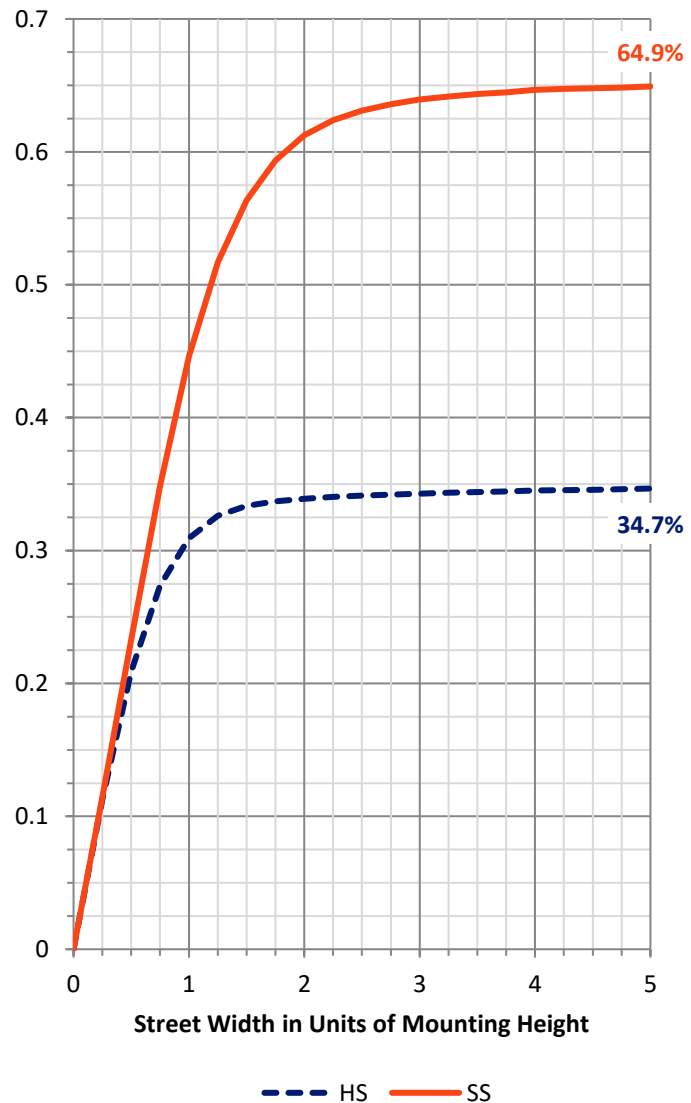
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2471.7	0.0	2471.7
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	4586.8	0.0	4586.8
	% Fixture	65.0	0.0	65.0
Total	Lumens	7058.5	0.0	7058.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	1.0
10°-20°	242.7	3.4
20°-30°	476.9	6.8
30°-40°	792.4	11.2
40°-50°	1164.3	16.5
50°-60°	1612.0	22.8
60°-70°	1924.0	27.3
70°-80°	680.4	9.6
80°-90°	95.1	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°	7058.5	100.0
0°-180°	7058.5	100.0

Coefficient of Utilization



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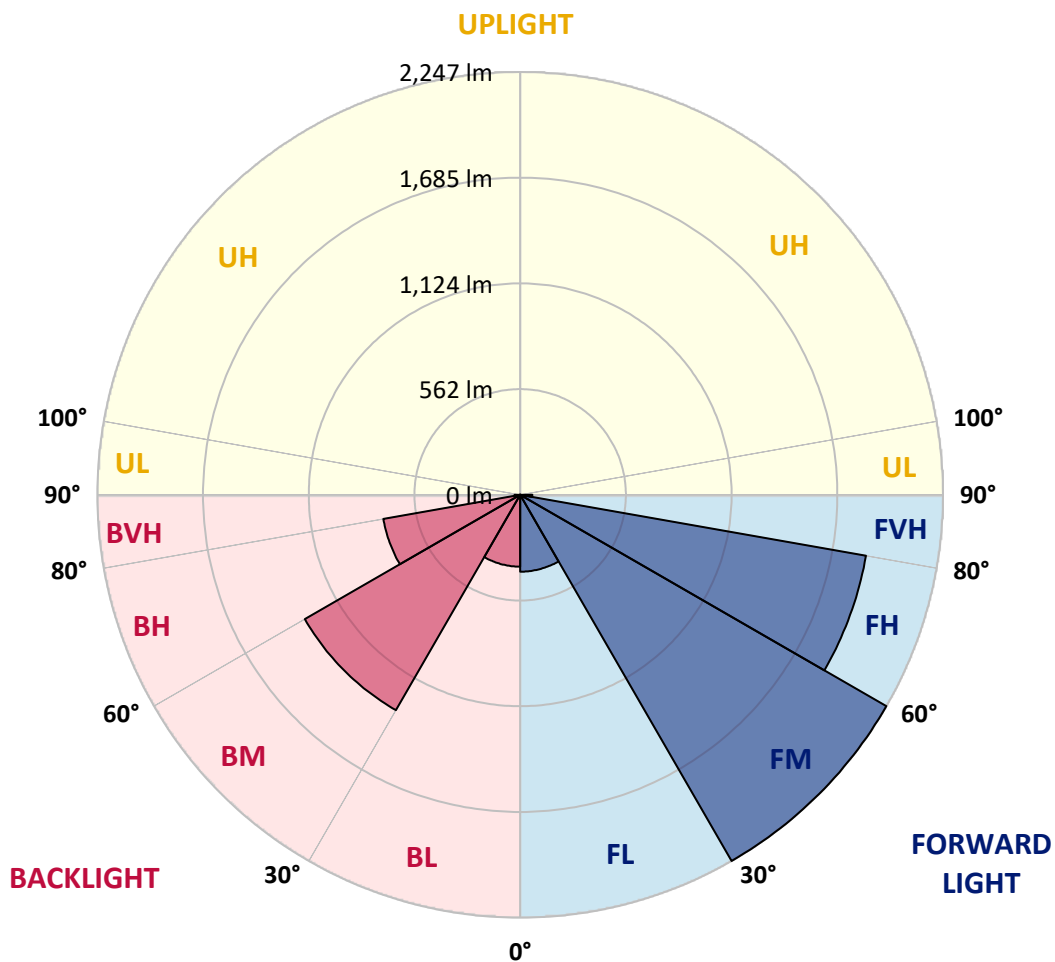
CATALOG NUMBER: ICM-F03-LED-E1-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	408.4	5.8			
FM	(30°-60°)	2247.2	31.8			
FH	(60°-80°)	1866.2	26.4			G2/5000
FVH	(80°-90°)	65.0	0.9			G1/100
BL	(0°-30°)	381.9	5.4	B1/500		
BM	(30°-60°)	1321.5	18.7	B2/2500		
BH	(60°-80°)	738.3	10.5	B2/1000		G2/1000
BVH	(80°-90°)	30.1	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°	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8
2.5°	736.5	737.2	735.7	734.9	732.7	728.7	725.7	722.6	722.6	722.6	720.3
5°	768.7	770.2	767.2	764.8	758.0	754.1	748.7	744.9	743.4	742.6	740.3
7.5°	809.4	807.1	802.5	800.9	795.5	787.2	777.1	769.5	769.5	768.7	769.5
10°	850.1	844.0	841.7	839.4	830.9	820.2	808.7	800.2	799.4	798.6	796.4
12.5°	890.8	888.5	886.2	877.8	869.3	852.4	839.4	830.9	830.1	830.9	827.8
15°	944.6	939.2	936.8	922.3	903.8	885.4	869.3	861.6	859.4	860.1	857.8
17.5°	986.1	986.1	980.7	964.6	940.7	915.4	898.5	893.9	893.1	893.1	893.9
20°	1019.1	1018.2	1012.9	999.8	971.4	946.1	937.7	936.1	935.4	935.4	937.7
22.5°	1037.5	1035.9	1033.7	1019.1	996.8	979.9	980.7	985.2	986.8	988.4	991.4
25°	1046.7	1044.4	1043.6	1033.7	1017.5	1015.2	1029.0	1041.3	1044.4	1047.4	1051.3
27.5°	1062.1	1058.2	1059.7	1055.9	1052.1	1059.0	1087.4	1100.5	1102.8	1106.6	1108.9
30°	1104.3	1102.8	1108.9	1110.4	1113.5	1123.4	1149.6	1161.9	1167.3	1167.3	1178.1
32.5°	1184.9	1185.7	1187.3	1203.4	1208.8	1215.6	1229.5	1239.4	1240.2	1240.9	1251.0
35°	1293.2	1297.8	1310.9	1324.7	1337.8	1336.9	1328.6	1333.9	1330.1	1334.7	1335.5
37.5°	1429.9	1423.7	1443.0	1474.4	1494.4	1489.0	1451.4	1426.8	1433.8	1430.7	1428.4
40°	1535.1	1542.1	1578.9	1620.4	1635.7	1652.6	1603.5	1561.2	1555.1	1543.5	1536.7
42.5°	1680.2	1681.0	1711.0	1741.7	1786.2	1823.1	1791.5	1730.9	1712.5	1698.7	1668.8
45°	1814.6	1812.3	1836.9	1874.5	1927.5	1980.5	1992.0	1926.0	1919.1	1894.5	1855.4
47.5°	1904.5	1901.4	1918.3	1967.5	2053.5	2140.2	2187.8	2167.9	2154.8	2144.9	2083.4
50°	1965.1	1959.0	1978.2	2030.4	2126.4	2260.0	2384.5	2401.3	2395.9	2395.9	2356.8
52.5°	2010.4	2010.4	2024.3	2066.5	2164.0	2330.7	2553.4	2638.6	2645.5	2653.2	2650.9
55°	1985.1	1988.9	2023.5	2084.9	2187.8	2379.8	2693.1	2879.7	2918.2	2950.4	2987.3
57.5°	1898.3	1911.4	1957.5	2058.1	2194.0	2416.7	2848.3	3217.6	3325.9	3419.6	3565.5
60°	1771.6	1788.5	1855.4	1983.5	2148.7	2356.8	2902.8	3503.3	3675.4	3879.7	4260.5
62.5°	1554.3	1571.2	1636.5	1764.8	1906.1	2127.2	2677.0	3545.5	3820.5	4110.0	4686.0
65°	1101.2	1074.3	1149.6	1264.8	1426.8	1641.0	2163.3	3262.2	3657.7	4050.1	4761.2
67.5°	613.6	611.3	657.3	743.4	898.5	1128.8	1490.5	2502.0	2866.0	3310.5	4183.7
70°	423.2	427.7	456.9	549.9	678.1	876.9	1062.1	1571.2	1833.0	2134.9	2993.4
72.5°	297.2	307.2	323.3	378.6	509.9	738.8	1085.1	939.2	1069.8	1275.5	1800.0
75°	174.3	181.2	192.7	219.6	290.2	493.8	1123.4	825.5	825.5	873.9	1088.9
77.5°	107.5	107.5	114.4	125.2	154.3	241.9	800.2	927.6	901.6	873.9	876.2
80°	55.3	59.2	69.1	74.5	86.0	110.6	359.4	865.5	949.1	1005.2	966.1
82.5°	25.3	28.4	42.2	45.3	50.0	58.3	123.6	492.3	659.6	868.6	1085.1
85°	13.0	13.0	22.2	27.6	30.0	26.9	45.3	198.9	301.0	459.3	718.8
87.5°	2.3	2.3	3.8	4.7	6.9	6.1	7.7	11.5	19.2	20.7	21.5
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8
2.5°	719.5	720.3	719.5	718.8	717.2	717.2	717.2	716.5	716.5	716.5	715.7
5°	740.3	737.2	738.0	736.5	735.7	734.9	735.7	734.1	732.7	733.4	732.7
7.5°	766.4	764.8	761.8	761.8	761.0	759.4	759.4	757.2	756.4	754.9	754.1
10°	795.5	791.7	793.3	791.7	792.5	789.4	787.9	786.3	784.8	784.8	785.6
12.5°	825.5	824.7	822.4	820.9	820.9	818.6	819.4	818.6	816.3	815.5	813.2
15°	856.3	856.3	854.0	854.7	854.0	852.4	850.9	850.9	849.3	847.8	848.6
17.5°	892.4	892.4	892.4	892.4	893.1	890.8	891.5	890.1	888.5	891.5	891.5
20°	939.2	942.2	942.2	941.5	945.3	943.0	942.2	946.1	942.2	947.6	946.9
22.5°	992.9	996.0	996.0	999.1	999.8	1002.1	1003.7	1002.1	1005.2	1008.3	1008.3
25°	1052.8	1055.9	1058.2	1062.8	1065.1	1063.6	1064.4	1068.2	1069.8	1072.8	1075.9
27.5°	1115.8	1116.6	1119.6	1125.0	1128.8	1130.4	1131.2	1137.3	1138.1	1139.6	1142.7
30°	1177.2	1184.9	1183.4	1190.3	1192.6	1194.9	1199.5	1201.8	1207.2	1210.2	1210.2
32.5°	1249.4	1247.9	1254.1	1259.4	1263.3	1267.1	1270.9	1274.0	1277.0	1278.6	1286.3
35°	1339.3	1342.3	1342.3	1343.1	1352.3	1353.1	1356.2	1363.1	1365.4	1370.0	1373.0
37.5°	1428.4	1423.0	1422.2	1422.2	1419.2	1421.4	1422.2	1423.0	1426.1	1426.8	1429.9
40°	1528.2	1521.3	1515.2	1511.3	1505.1	1496.7	1495.2	1491.4	1493.6	1492.8	1493.6
42.5°	1664.8	1645.7	1631.1	1620.4	1608.0	1598.8	1591.9	1582.0	1575.1	1566.6	1565.0
45°	1839.2	1803.1	1778.5	1760.8	1743.2	1717.9	1703.3	1687.9	1674.1	1660.3	1648.8
47.5°	2068.0	2029.7	1990.5	1958.2	1930.6	1889.9	1848.4	1825.4	1798.5	1774.7	1757.8
50°	2337.6	2291.5	2273.1	2227.7	2193.2	2131.8	2080.3	2042.7	1988.9	1952.8	1921.4
52.5°	2613.3	2601.8	2591.7	2553.4	2512.7	2477.3	2432.0	2366.0	2311.5	2270.1	2205.5
55°	2988.8	2994.2	2990.3	2969.6	2955.0	2921.2	2902.8	2845.2	2820.7	2760.8	2693.1
57.5°	3620.9	3663.8	3718.3	3739.8	3769.0	3741.4	3773.6	3812.8	3715.3	3749.0	3688.4
60°	4427.9	4625.2	4742.7	4887.1	4981.6	5113.7	5137.5	5172.0	5162.1	5181.2	5220.4
62.5°	4921.0	5155.1	5380.1	5543.8	5718.8	5815.6	5932.3	6013.7	6098.2	6155.0	6138.8
65°	5066.1	5307.2	5511.5	5690.4	5847.0	5965.3	6073.6	6175.8	6253.2	6307.9	6340.0
67.5°	4533.1	4847.9	5063.0	5272.7	5474.6	5599.0	5689.6	5788.7	5902.4	5996.8	6015.2
70°	3411.2	3883.5	4188.3	4439.5	4676.7	4844.1	4970.8	5063.0	5151.3	5218.9	5292.6
72.5°	2133.3	2546.4	2895.1	3220.8	3472.6	3703.0	3809.7	4014.0	3987.1	4038.5	4093.9
75°	1278.6	1479.8	1671.8	1901.4	2033.5	2225.5	2260.0	2293.8	2276.2	2218.5	2261.6
77.5°	888.5	921.5	920.0	906.9	893.1	859.4	815.5	791.7	775.6	752.6	761.8
80°	893.9	822.4	713.4	599.7	495.4	426.2	398.5	398.5	427.0	467.6	508.4
82.5°	1068.2	992.2	884.7	740.3	586.7	477.7	404.7	375.5	380.9	422.3	474.6
85°	720.3	737.2	646.6	591.4	468.5	364.7	305.7	248.0	219.6	226.5	256.5
87.5°	26.1	31.4	11.5	15.3	10.8	9.2	9.2	10.0	6.9	8.5	7.7
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8
2.5°	715.0	714.1	714.1	712.7	712.7	711.9	711.9	711.1	710.3	710.3	709.6
5°	731.8	731.1	729.5	728.7	727.3	727.3	726.4	724.9	724.9	723.4	722.6
7.5°	755.6	754.1	752.6	751.8	751.1	748.7	748.7	747.2	747.2	745.7	744.9
10°	784.1	782.5	781.0	781.8	779.4	778.7	777.1	777.1	774.9	774.1	774.1
12.5°	814.8	814.1	814.1	811.7	811.0	810.1	807.1	807.1	807.1	805.6	806.3
15°	847.8	848.6	846.2	848.6	847.8	845.5	845.5	845.5	842.4	846.2	843.2
17.5°	892.4	894.6	893.1	893.9	892.4	892.4	893.1	892.4	893.9	893.9	898.5
20°	947.6	948.4	952.3	950.7	950.7	950.0	951.4	952.3	955.4	953.8	956.8
22.5°	1008.3	1012.1	1012.9	1016.0	1016.0	1015.2	1016.8	1019.8	1021.3	1023.6	1022.9
25°	1077.4	1079.7	1082.8	1079.0	1085.1	1085.1	1086.6	1090.4	1091.3	1091.3	1096.6
27.5°	1142.0	1148.1	1148.8	1152.7	1150.3	1151.9	1157.3	1159.5	1162.6	1162.6	1164.2
30°	1214.9	1217.2	1218.7	1223.4	1222.5	1223.4	1224.1	1227.9	1227.9	1231.7	1235.6
32.5°	1290.1	1291.6	1293.2	1297.8	1299.4	1302.4	1300.8	1303.9	1307.8	1308.6	1310.9
35°	1380.0	1381.5	1383.1	1390.0	1390.7	1396.1	1397.7	1396.1	1402.2	1398.4	1402.2
37.5°	1432.2	1439.1	1440.7	1445.2	1443.7	1447.5	1449.9	1452.9	1454.4	1457.5	1463.7
40°	1495.9	1498.2	1502.9	1505.1	1508.2	1509.0	1512.1	1514.3	1516.7	1523.5	1530.5
42.5°	1561.2	1564.3	1566.6	1569.7	1573.5	1576.6	1578.9	1585.8	1587.4	1591.9	1604.9
45°	1640.3	1638.8	1639.5	1640.3	1641.9	1645.7	1652.6	1659.5	1664.1	1674.9	1685.6
47.5°	1738.6	1728.7	1724.8	1718.6	1720.2	1728.7	1730.2	1741.7	1750.9	1760.8	1774.0
50°	1887.5	1860.7	1844.6	1828.5	1826.9	1831.5	1837.7	1850.0	1860.7	1873.8	1892.2
52.5°	2138.0	2086.5	2054.2	2009.7	1997.4	1995.1	1990.5	1997.4	2000.5	2018.2	2052.7
55°	2644.8	2549.5	2488.1	2419.0	2354.5	2335.3	2298.4	2306.2	2298.4	2309.2	2360.7
57.5°	3703.0	3627.0	3567.1	3478.7	3368.2	3250.6	3221.5	3100.9	3124.8	3193.9	3149.3
60°	5239.7	5211.9	5169.0	5126.7	4975.5	4890.2	4751.2	4735.8	4638.4	4639.1	4575.4
62.5°	6099.7	6135.0	6109.0	6096.6	6088.2	6061.3	5992.2	5909.2	5784.9	5695.0	5562.9
65°	6345.4	6315.5	6287.1	6283.2	6281.0	6324.7	6334.7	6276.3	6163.5	6023.7	5871.7
67.5°	6059.0	6042.1	6043.7	6011.4	6031.4	6107.4	6160.4	6144.2	6040.6	5871.7	5678.1
70°	5377.1	5344.0	5377.9	5420.1	5450.1	5493.8	5546.8	5559.8	5465.4	5291.8	5094.4
72.5°	4026.3	4031.7	4063.9	4075.5	4196.0	4183.7	4231.3	4076.2	4007.8	3842.7	3741.4
75°	2118.7	2084.2	2174.1	1983.5	1905.2	1959.7	1807.0	1660.3	1691.0	1716.3	1533.6
77.5°	748.7	700.4	618.1	585.1	486.9	412.4	337.1	304.1	286.4	277.2	265.7
80°	537.6	552.9	536.0	496.1	421.6	337.9	266.5	210.4	180.5	164.4	153.6
82.5°	543.7	604.4	631.3	619.7	552.2	417.8	275.7	175.8	130.5	109.0	101.4
85°	291.8	319.4	307.2	258.8	232.7	139.0	95.3	63.7	53.8	49.1	45.3
87.5°	11.5	9.2	7.7	7.7	8.5	9.2	7.7	8.5	7.7	7.7	7.7
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8
2.5°	708.0	708.0	708.0	707.3	705.8	701.9	698.1	695.0	692.7	690.3	687.3
5°	721.9	720.3	720.3	720.3	714.1	708.0	702.7	697.3	692.7	688.8	685.8
7.5°	744.9	744.1	741.0	740.3	735.7	725.7	719.5	710.3	704.9	699.6	698.1
10°	772.6	771.8	771.0	770.2	764.1	754.1	746.4	738.0	730.3	722.6	715.0
12.5°	804.8	804.0	803.3	800.9	798.6	793.3	784.8	775.6	766.4	750.2	741.9
15°	844.7	846.2	844.7	844.0	842.4	843.2	837.8	824.7	810.1	789.4	771.8
17.5°	897.7	896.2	895.4	898.5	897.7	901.6	900.0	883.2	860.8	827.8	797.1
20°	956.1	956.1	959.2	961.5	968.4	978.3	973.8	953.0	912.3	866.2	826.3
22.5°	1026.0	1027.5	1030.6	1029.0	1039.8	1055.9	1057.4	1028.3	975.3	911.5	855.4
25°	1098.9	1100.5	1097.4	1102.0	1119.6	1142.7	1147.3	1105.9	1035.9	953.0	880.1
27.5°	1168.0	1169.6	1169.6	1175.7	1192.6	1231.7	1236.4	1190.3	1097.4	989.1	897.7
30°	1235.6	1241.8	1243.3	1244.8	1270.1	1324.7	1334.7	1267.8	1151.2	1016.0	910.0
32.5°	1320.8	1323.2	1326.2	1330.1	1359.3	1426.1	1426.1	1334.7	1185.7	1032.8	912.3
35°	1412.2	1413.0	1419.9	1420.7	1462.1	1528.9	1515.9	1390.0	1210.2	1029.0	895.4
37.5°	1467.5	1470.6	1477.5	1486.7	1530.5	1624.9	1595.0	1437.6	1214.9	1003.7	857.0
40°	1535.8	1542.1	1548.9	1558.1	1623.5	1722.5	1661.8	1467.5	1195.6	953.8	799.4
42.5°	1609.6	1618.1	1628.8	1645.7	1723.3	1808.5	1712.5	1472.1	1151.9	897.7	731.1
45°	1692.6	1707.9	1720.2	1740.1	1827.6	1883.0	1743.2	1445.2	1096.6	824.0	658.1
47.5°	1788.5	1800.8	1822.3	1843.8	1931.4	1933.7	1746.2	1393.0	1021.3	750.2	580.6
50°	1906.8	1914.4	1946.7	1959.7	2042.0	1986.6	1724.0	1322.4	942.2	667.4	494.5
52.5°	2064.2	2075.0	2116.4	2136.4	2194.8	2058.8	1692.6	1245.6	851.6	574.4	406.2
55°	2375.2	2422.1	2451.3	2485.8	2523.5	2222.4	1678.7	1163.4	749.5	466.9	321.8
57.5°	3248.4	3233.0	3297.5	3375.8	3375.1	2596.4	1761.7	1092.8	628.9	357.1	247.3
60°	4549.2	4563.8	4530.8	4577.7	4428.7	3060.2	1875.3	1018.2	493.0	265.7	188.9
62.5°	5516.0	5431.6	5384.8	5329.4	5001.5	3110.9	1792.4	865.5	358.6	186.6	145.1
65°	5745.0	5645.9	5545.2	5440.0	4945.5	2804.5	1470.6	635.1	231.9	128.3	115.2
67.5°	5519.1	5360.2	5231.9	5123.7	4531.6	2324.6	1075.1	390.1	132.8	103.6	98.3
70°	4934.0	4758.2	4550.8	4429.4	3815.8	1713.2	688.8	210.4	102.1	92.2	89.9
72.5°	3611.6	3467.2	3240.7	3101.7	2740.0	1041.3	384.7	118.2	95.3	88.3	85.2
75°	1406.9	1331.6	1237.1	1244.8	1111.2	460.7	174.3	102.1	92.9	86.8	83.7
77.5°	241.9	235.7	218.0	218.0	248.0	168.2	116.0	102.9	92.2	85.2	79.9
80°	145.1	142.0	135.2	133.6	129.0	118.2	111.3	104.5	90.6	80.7	73.8
82.5°	95.3	91.3	89.1	88.3	96.0	103.6	104.5	103.6	86.0	69.9	59.9
85°	40.7	40.7	40.7	41.5	55.3	83.7	86.0	92.2	70.6	54.5	43.0
87.5°	6.9	8.5	8.5	9.2	10.0	18.4	23.1	30.0	23.8	23.1	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):

	165°	175°	180°
0°	705.8	705.8	705.8
2.5°	686.5	685.0	685.0
5°	684.2	682.7	683.4
7.5°	693.4	690.3	691.2
10°	710.3	707.3	705.8
12.5°	731.8	728.0	728.0
15°	754.1	744.9	744.1
17.5°	772.6	761.0	759.4
20°	793.3	778.0	775.6
22.5°	812.5	791.7	788.7
25°	826.3	800.9	797.1
27.5°	832.5	802.5	799.4
30°	837.0	803.3	798.6
32.5°	832.5	796.4	792.5
35°	807.1	767.9	765.6
37.5°	763.4	719.5	716.5
40°	705.8	659.6	652.0
42.5°	632.0	589.0	580.6
45°	560.6	511.4	507.6
47.5°	483.8	436.9	439.3
50°	403.2	360.9	360.2
52.5°	326.3	289.5	287.2
55°	257.3	231.2	228.8
57.5°	203.5	189.7	187.3
60°	165.9	159.0	156.7
62.5°	133.6	131.3	130.5
65°	111.3	111.3	111.3
67.5°	96.7	97.5	97.5
70°	89.1	89.9	89.1
72.5°	86.0	88.3	88.3
75°	83.7	85.2	82.1
77.5°	82.1	83.0	77.6
80°	81.4	80.7	70.6
82.5°	70.6	68.4	59.9
85°	64.5	49.1	41.5
87.5°	33.0	23.1	17.7
90°	0.0	0.0	0.0

(END OF REPORT)