

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: P181313

Luminaire Tested: **ICS-F04-LED-E1-T2-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181313
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-F04-LED-E1-T2-7030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8316.9 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - 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

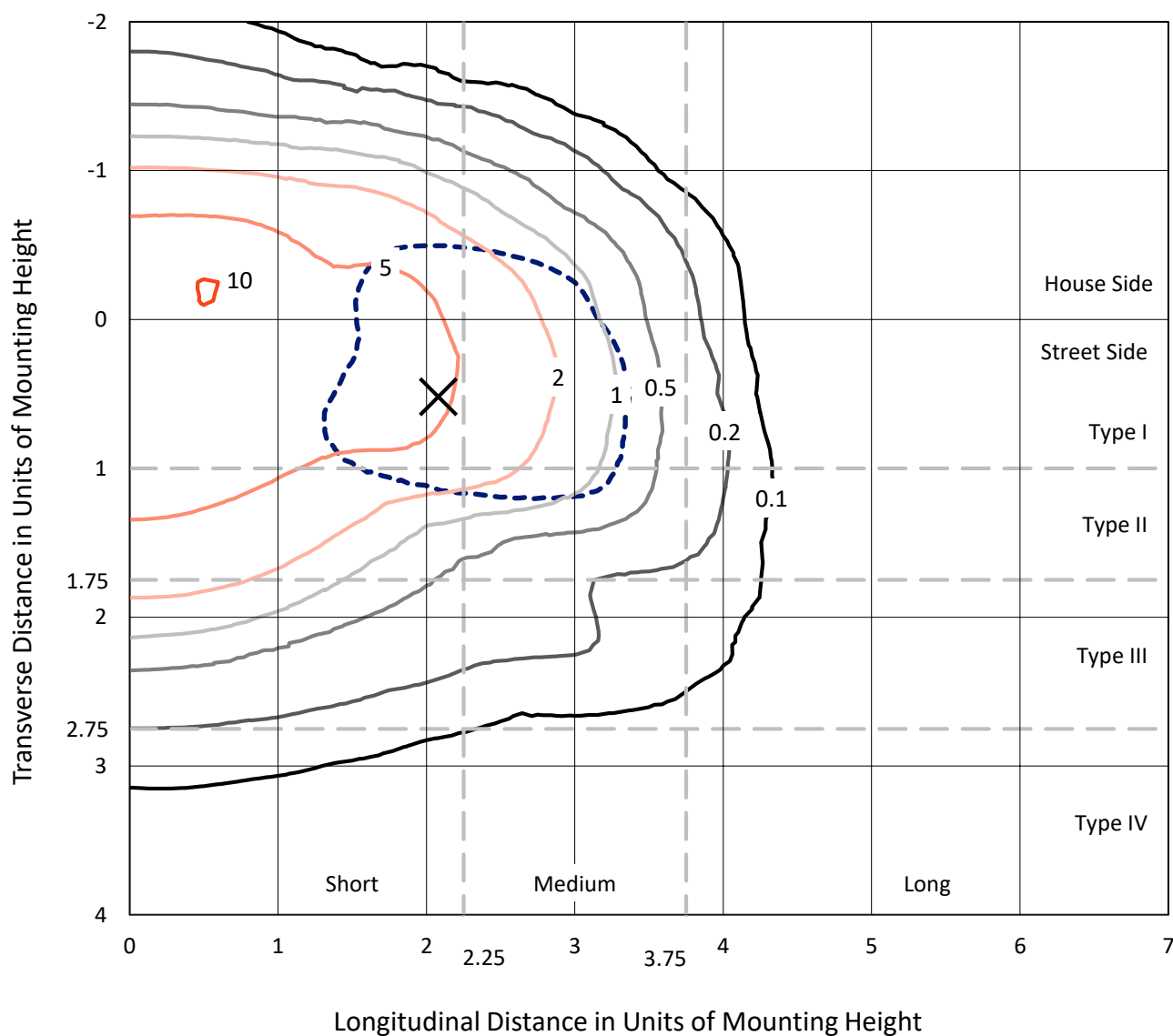


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

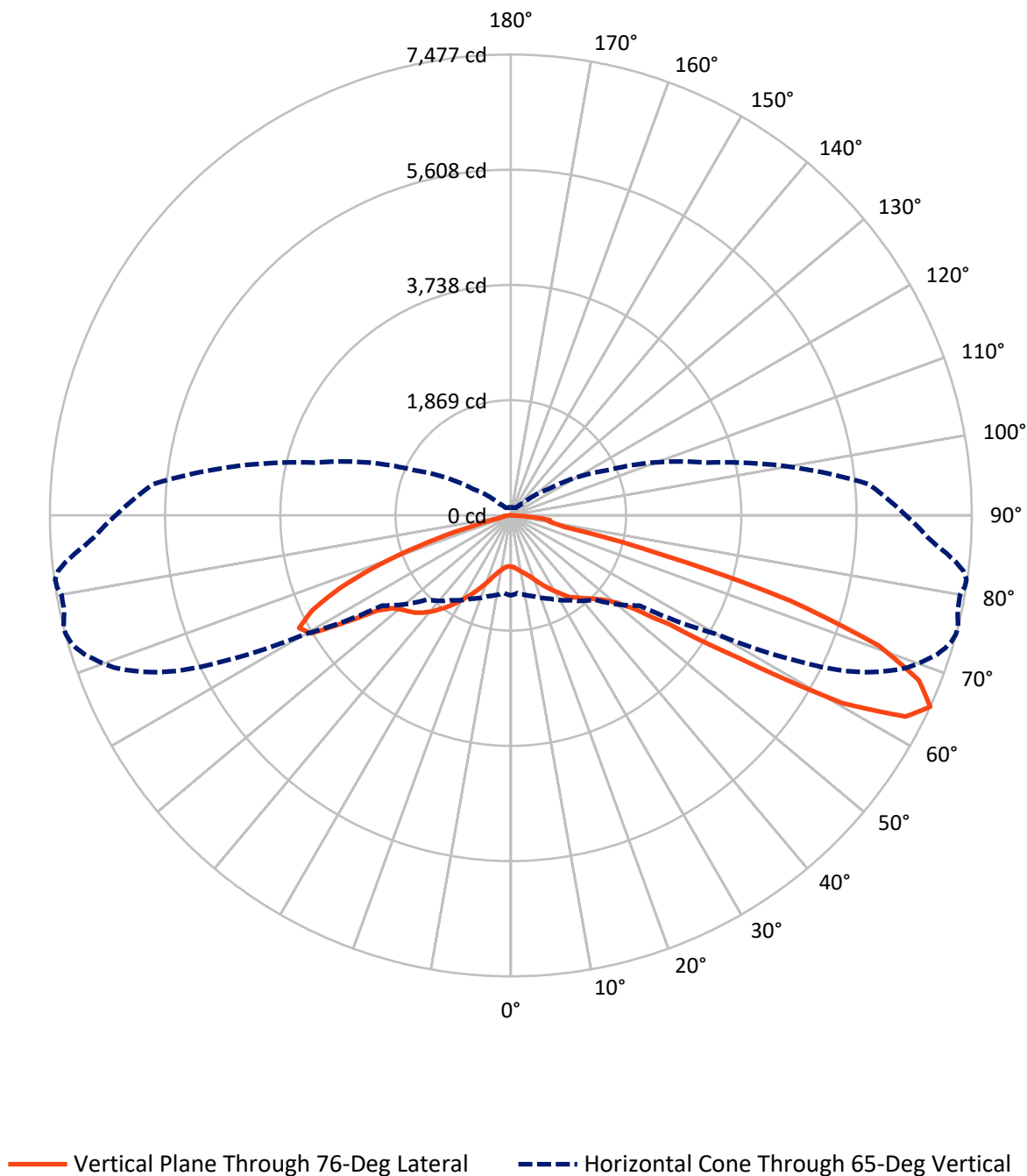


Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2912.4	0.0	2912.4
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	5404.5	0.0	5404.5
	% Fixture	65.0	0.0	65.0
Total	Lumens	8316.9	0.0	8316.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	1.0
10°-20°	286.0	3.4
20°-30°	561.9	6.8
30°-40°	933.6	11.2
40°-50°	1371.9	16.5
50°-60°	1899.4	22.8
60°-70°	2267.1	27.3
70°-80°	801.7	9.6
80°-90°	112.0	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°	8316.9	100.0
0°-180°	8316.9	100.0

Coefficient of Utilization



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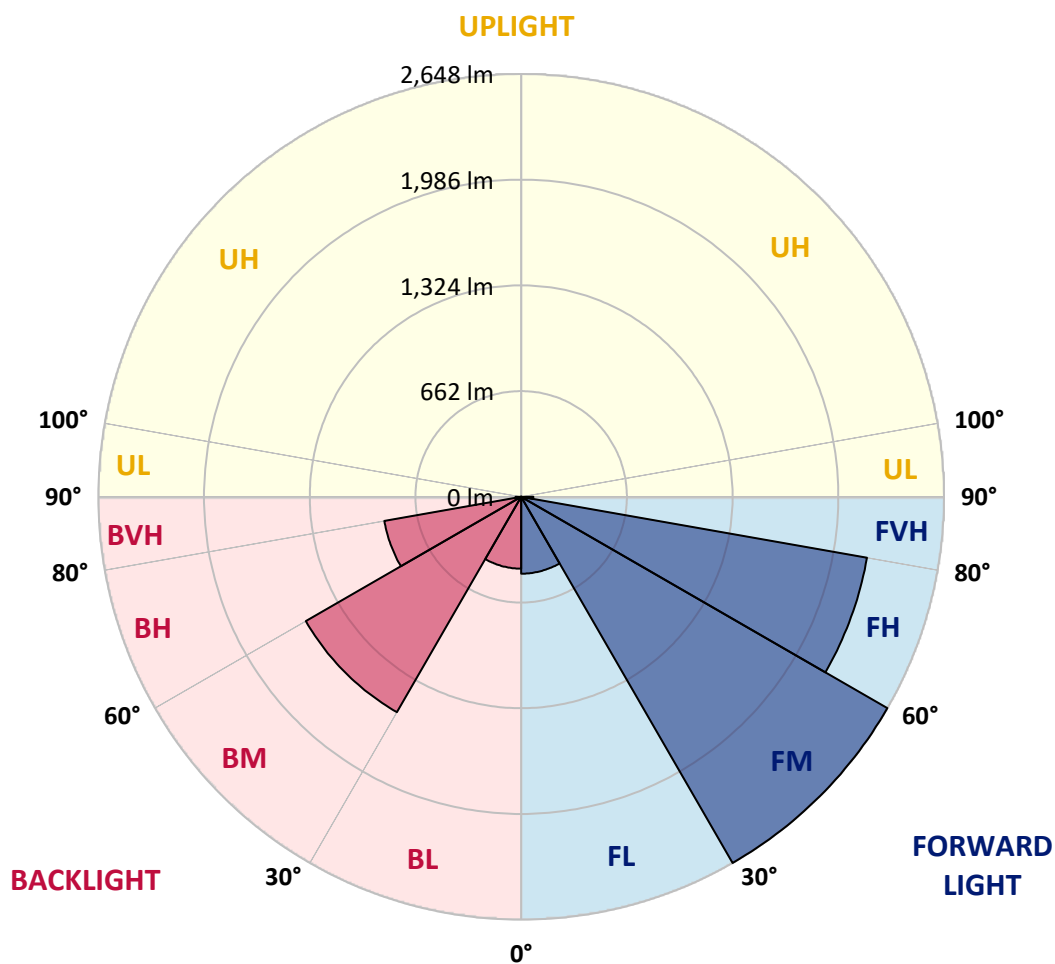
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	481.2	5.8			
FM	(30°-60°)	2647.9	31.8			
FH	(60°-80°)	2198.9	26.4			G2/5000
FVH	(80°-90°)	76.6	0.9			G1/100
BL	(0°-30°)	449.9	5.4	B1/500		
BM	(30°-60°)	1557.0	18.7	B2/2500		
BH	(60°-80°)	869.9	10.5	B2/1000		G2/1000
BVH	(80°-90°)	35.4	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°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	867.7	868.6	866.8	865.9	863.2	858.7	855.1	851.5	851.5	851.5	848.7
5°	905.7	907.6	903.9	901.2	893.1	888.6	882.2	877.7	875.9	875.0	872.3
7.5°	953.7	951.0	945.6	943.7	937.4	927.5	915.7	906.7	906.7	905.7	906.7
10°	1001.7	994.4	991.7	989.0	979.0	966.4	952.8	942.8	941.9	941.0	938.3
12.5°	1049.6	1046.9	1044.2	1034.2	1024.3	1004.4	989.0	979.0	978.1	979.0	975.4
15°	1113.0	1106.6	1103.9	1086.7	1065.0	1043.3	1024.3	1015.2	1012.5	1013.4	1010.7
17.5°	1161.8	1161.8	1155.5	1136.5	1108.4	1078.6	1058.7	1053.2	1052.3	1052.3	1053.2
20°	1200.7	1199.8	1193.5	1178.1	1144.6	1114.8	1104.8	1103.0	1102.1	1102.1	1104.8
22.5°	1222.4	1220.6	1217.9	1200.7	1174.5	1154.6	1155.5	1160.9	1162.7	1164.5	1168.2
25°	1233.3	1230.6	1229.7	1217.9	1198.9	1196.2	1212.5	1227.0	1230.6	1234.2	1238.7
27.5°	1251.4	1246.9	1248.7	1244.2	1239.6	1247.8	1281.3	1296.6	1299.4	1303.9	1306.6
30°	1301.2	1299.4	1306.6	1308.4	1312.0	1323.8	1354.5	1369.0	1375.4	1375.4	1388.0
32.5°	1396.2	1397.1	1398.9	1417.9	1424.2	1432.4	1448.7	1460.4	1461.3	1462.2	1474.0
35°	1523.8	1529.2	1544.6	1560.9	1576.2	1575.3	1565.4	1571.7	1567.2	1572.6	1573.5
37.5°	1684.8	1677.6	1700.2	1737.3	1760.8	1754.5	1710.2	1681.2	1689.3	1685.7	1683.0
40°	1808.8	1816.9	1860.4	1909.2	1927.3	1947.2	1889.3	1839.5	1832.3	1818.7	1810.6
42.5°	1979.8	1980.7	2016.0	2052.2	2104.7	2148.1	2111.0	2039.5	2017.8	2001.5	1966.2
45°	2138.1	2135.4	2164.4	2208.7	2271.2	2333.6	2347.2	2269.3	2261.2	2232.2	2186.1
47.5°	2244.0	2240.4	2260.3	2318.2	2419.5	2521.8	2577.9	2554.4	2539.0	2527.2	2454.8
50°	2315.5	2308.3	2330.9	2392.4	2505.5	2662.9	2809.5	2829.4	2823.1	2823.1	2777.0
52.5°	2368.9	2368.9	2385.2	2434.9	2549.8	2746.2	3008.6	3109.0	3117.2	3126.2	3123.5
55°	2339.0	2343.5	2384.3	2456.6	2577.9	2804.1	3173.3	3393.2	3438.4	3476.4	3519.8
57.5°	2236.8	2252.2	2306.4	2425.0	2585.1	2847.5	3356.1	3791.3	3918.9	4029.3	4201.2
60°	2087.5	2107.4	2186.1	2337.2	2531.7	2777.0	3420.3	4127.9	4330.6	4571.3	5020.1
62.5°	1831.4	1851.3	1928.2	2079.3	2245.8	2506.4	3154.3	4177.7	4501.6	4842.7	5521.3
65°	1297.5	1265.9	1354.5	1490.3	1681.2	1933.6	2548.9	3843.8	4309.8	4772.1	5610.0
67.5°	723.0	720.3	774.5	875.9	1058.7	1330.1	1756.3	2948.0	3376.9	3900.8	4929.6
70°	498.6	504.0	538.4	647.9	799.0	1033.3	1251.4	1851.3	2159.9	2515.5	3527.1
72.5°	350.2	361.9	380.9	446.1	600.8	870.5	1278.5	1106.6	1260.4	1502.9	2120.9
75°	205.4	213.5	227.1	258.8	342.0	581.8	1323.8	972.7	972.7	1029.7	1283.1
77.5°	126.7	126.7	134.8	147.5	181.9	285.0	942.8	1093.0	1062.3	1029.7	1032.4
80°	65.1	69.7	81.4	87.8	101.3	130.3	423.5	1019.8	1118.4	1184.4	1138.3
82.5°	29.9	33.5	49.8	53.4	58.8	68.8	145.7	580.0	777.3	1023.4	1278.5
85°	15.4	15.4	26.2	32.6	35.3	31.7	53.4	234.4	354.7	541.1	846.9
87.5°	2.7	2.7	4.5	5.4	8.1	7.2	9.0	13.6	22.6	24.4	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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	847.8	848.7	847.8	846.9	845.1	845.1	845.1	844.2	844.2	844.2	843.3
5°	872.3	868.6	869.6	867.7	866.8	865.9	866.8	865.0	863.2	864.1	863.2
7.5°	903.0	901.2	897.6	897.6	896.7	894.9	894.9	892.2	891.3	889.5	888.6
10°	937.4	932.9	934.7	932.9	933.8	930.2	928.4	926.6	924.7	924.7	925.7
12.5°	972.7	971.8	969.1	967.3	967.3	964.6	965.5	964.6	961.8	960.9	958.2
15°	1008.9	1008.9	1006.2	1007.1	1006.2	1004.4	1002.6	1002.6	1000.8	998.9	999.8
17.5°	1051.4	1051.4	1051.4	1051.4	1052.3	1049.6	1050.5	1048.7	1046.9	1050.5	1050.5
20°	1106.6	1110.2	1110.2	1109.3	1113.9	1111.1	1110.2	1114.8	1110.2	1116.6	1115.7
22.5°	1170.0	1173.6	1173.6	1177.2	1178.1	1180.8	1182.6	1180.8	1184.4	1188.1	1188.1
25°	1240.5	1244.2	1246.9	1252.3	1255.0	1253.2	1254.1	1258.6	1260.4	1264.1	1267.7
27.5°	1314.7	1315.6	1319.3	1325.6	1330.1	1331.9	1332.8	1340.1	1341.0	1342.8	1346.4
30°	1387.1	1396.2	1394.4	1402.5	1405.2	1407.9	1413.4	1416.1	1422.4	1426.0	1426.0
32.5°	1472.2	1470.4	1477.6	1483.9	1488.5	1493.0	1497.5	1501.1	1504.8	1506.6	1515.6
35°	1578.0	1581.7	1581.7	1582.6	1593.4	1594.3	1597.9	1606.1	1608.8	1614.2	1617.9
37.5°	1683.0	1676.7	1675.8	1675.8	1672.1	1674.9	1675.8	1676.7	1680.3	1681.2	1684.8
40°	1800.6	1792.5	1785.3	1780.7	1773.5	1763.5	1761.7	1757.2	1759.9	1759.0	1759.9
42.5°	1961.7	1939.1	1921.9	1909.2	1894.7	1883.9	1875.7	1864.0	1855.8	1845.9	1844.1
45°	2167.1	2124.6	2095.6	2074.8	2054.0	2024.1	2006.9	1988.8	1972.6	1956.3	1942.7
47.5°	2436.7	2391.5	2345.3	2307.3	2274.8	2226.8	2178.0	2150.8	2119.1	2091.1	2071.2
50°	2754.3	2700.0	2678.3	2624.9	2584.2	2511.8	2451.2	2406.9	2343.5	2301.0	2263.9
52.5°	3079.2	3065.6	3053.8	3008.6	2960.6	2919.0	2865.6	2787.8	2723.6	2674.7	2598.7
55°	3521.6	3528.0	3523.5	3499.0	3481.8	3442.0	3420.3	3352.4	3323.5	3252.9	3173.3
57.5°	4266.3	4317.0	4381.2	4406.6	4441.0	4408.4	4446.4	4492.5	4377.6	4417.4	4346.0
60°	5217.3	5449.9	5588.3	5758.4	5869.7	6025.3	6053.4	6094.1	6082.3	6105.0	6151.1
62.5°	5798.2	6074.2	6339.3	6532.0	6738.4	6852.4	6989.9	7085.8	7185.3	7252.3	7233.3
65°	5969.2	6253.4	6494.0	6704.9	6889.5	7028.8	7156.4	7276.7	7368.1	7432.4	7470.4
67.5°	5341.3	5712.3	5965.6	6212.6	6450.6	6597.2	6704.0	6820.7	6954.6	7065.9	7087.6
70°	4019.3	4575.8	4935.0	5230.9	5510.5	5707.7	5857.0	5965.6	6069.7	6149.3	6236.2
72.5°	2513.6	3000.5	3411.3	3794.9	4091.7	4363.1	4488.9	4729.6	4697.9	4758.6	4823.7
75°	1506.6	1743.6	1969.8	2240.4	2396.0	2622.2	2662.9	2702.8	2681.9	2614.1	2664.8
77.5°	1046.9	1085.8	1084.0	1068.6	1052.3	1012.5	960.9	932.9	913.9	886.7	897.6
80°	1053.2	969.1	840.6	706.7	583.6	502.2	469.6	469.6	503.1	551.0	599.0
82.5°	1258.6	1169.1	1042.4	872.3	691.3	562.8	476.9	442.5	448.8	497.7	559.2
85°	848.7	868.6	761.9	696.7	552.0	429.8	360.1	292.3	258.8	266.9	302.2
87.5°	30.8	37.1	13.6	18.1	12.7	10.9	10.9	11.8	8.1	10.0	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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	842.4	841.5	841.5	839.7	839.7	838.8	838.8	837.9	837.0	837.0	836.1
5°	862.3	861.4	859.6	858.7	856.9	856.9	856.0	854.2	854.2	852.4	851.5
7.5°	890.4	888.6	886.7	885.8	884.9	882.2	882.2	880.4	880.4	878.6	877.7
10°	923.8	922.0	920.2	921.1	918.4	917.5	915.7	915.7	913.0	912.1	912.1
12.5°	960.0	959.1	959.1	956.4	955.5	954.6	951.0	951.0	951.0	949.2	950.1
15°	998.9	999.8	997.1	999.8	998.9	996.2	996.2	996.2	992.6	997.1	993.5
17.5°	1051.4	1054.1	1052.3	1053.2	1051.4	1051.4	1052.3	1051.4	1053.2	1053.2	1058.7
20°	1116.6	1117.5	1122.0	1120.2	1120.2	1119.3	1121.1	1122.0	1125.6	1123.8	1127.4
22.5°	1188.1	1192.6	1193.5	1197.1	1197.1	1196.2	1198.0	1201.6	1203.4	1206.2	1205.2
25°	1269.5	1272.2	1275.8	1271.3	1278.5	1278.5	1280.4	1284.9	1285.8	1285.8	1292.1
27.5°	1345.5	1352.7	1353.6	1358.2	1355.5	1357.3	1363.6	1366.3	1369.9	1369.9	1371.7
30°	1431.5	1434.2	1436.0	1441.4	1440.5	1441.4	1442.3	1446.8	1446.8	1451.4	1455.9
32.5°	1520.1	1521.9	1523.8	1529.2	1531.0	1534.6	1532.8	1536.4	1540.9	1541.8	1544.6
35°	1626.0	1627.8	1629.6	1637.8	1638.7	1645.0	1646.8	1645.0	1652.2	1647.7	1652.2
37.5°	1687.5	1695.7	1697.5	1702.9	1701.1	1705.6	1708.3	1712.0	1713.8	1717.4	1724.6
40°	1762.6	1765.3	1770.8	1773.5	1777.1	1778.0	1781.6	1784.3	1787.1	1795.2	1803.3
42.5°	1839.5	1843.2	1845.9	1849.5	1854.0	1857.6	1860.4	1868.5	1870.3	1875.7	1891.1
45°	1932.7	1930.9	1931.8	1932.7	1934.6	1939.1	1947.2	1955.4	1960.8	1973.5	1986.1
47.5°	2048.6	2036.8	2032.3	2025.0	2026.8	2036.8	2038.6	2052.2	2063.0	2074.8	2090.2
50°	2224.1	2192.4	2173.4	2154.4	2152.6	2158.0	2165.3	2179.8	2192.4	2207.8	2229.5
52.5°	2519.1	2458.5	2420.5	2368.0	2353.5	2350.8	2345.3	2353.5	2357.1	2377.9	2418.6
55°	3116.3	3004.1	2931.7	2850.3	2774.2	2751.6	2708.2	2717.2	2708.2	2720.9	2781.5
57.5°	4363.1	4273.6	4203.0	4098.9	3968.6	3830.2	3795.8	3653.7	3681.8	3763.2	3710.8
60°	6173.7	6141.2	6090.5	6040.7	5862.5	5762.0	5598.3	5580.2	5465.2	5466.1	5391.0
62.5°	7187.2	7228.8	7198.0	7183.5	7173.6	7141.9	7060.5	6962.8	6816.2	6710.3	6554.7
65°	7476.7	7441.4	7407.9	7403.4	7400.7	7452.3	7464.0	7395.3	7262.3	7097.6	6918.4
67.5°	7139.2	7119.3	7121.1	7083.1	7106.6	7196.2	7258.6	7239.6	7117.5	6918.4	6690.4
70°	6335.7	6296.8	6336.6	6386.4	6421.7	6473.2	6535.7	6551.1	6439.8	6235.3	6002.7
72.5°	4744.1	4750.4	4788.4	4802.0	4944.1	4929.6	4985.7	4802.9	4722.4	4527.8	4408.4
75°	2496.5	2455.7	2561.6	2337.2	2244.9	2309.2	2129.1	1956.3	1992.5	2022.3	1807.0
77.5°	882.2	825.2	728.4	689.5	573.7	485.9	397.2	358.3	337.5	326.6	313.1
80°	633.4	651.5	631.6	584.5	496.8	398.1	314.0	247.9	212.6	193.6	181.0
82.5°	640.6	712.1	743.8	730.2	650.6	492.2	324.8	207.2	153.8	128.5	119.4
85°	343.8	376.4	361.9	304.9	274.2	163.8	112.2	75.1	63.3	57.9	53.4
87.5°	13.6	10.9	9.0	9.0	10.0	10.9	9.0	10.0	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°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	834.3	834.3	834.3	833.4	831.5	827.0	822.5	818.9	816.2	813.5	809.8
5°	850.6	848.7	848.7	848.7	841.5	834.3	827.9	821.6	816.2	811.6	808.0
7.5°	877.7	876.8	873.2	872.3	866.8	855.1	847.8	837.0	830.6	824.3	822.5
10°	910.3	909.4	908.5	907.6	900.3	888.6	879.5	869.6	860.5	851.5	842.4
12.5°	948.3	947.4	946.5	943.7	941.0	934.7	924.7	913.9	903.0	884.0	874.1
15°	995.3	997.1	995.3	994.4	992.6	993.5	987.2	971.8	954.6	930.2	909.4
17.5°	1057.8	1055.9	1055.0	1058.7	1057.8	1062.3	1060.5	1040.6	1014.3	975.4	939.2
20°	1126.5	1126.5	1130.1	1132.9	1141.0	1152.8	1147.3	1122.9	1075.0	1020.7	973.6
22.5°	1208.9	1210.7	1214.3	1212.5	1225.2	1244.2	1246.0	1211.6	1149.1	1074.0	1008.0
25°	1294.8	1296.6	1293.0	1298.4	1319.3	1346.4	1351.8	1303.0	1220.6	1122.9	1036.9
27.5°	1376.3	1378.1	1378.1	1385.3	1405.2	1451.4	1456.8	1402.5	1293.0	1165.4	1057.8
30°	1455.9	1463.1	1464.9	1466.7	1496.6	1560.9	1572.6	1493.9	1356.4	1197.1	1072.2
32.5°	1556.3	1559.0	1562.7	1567.2	1601.6	1680.3	1680.3	1572.6	1397.1	1217.0	1075.0
35°	1664.0	1664.9	1673.1	1674.0	1722.8	1801.5	1786.2	1637.8	1426.0	1212.5	1055.0
37.5°	1729.2	1732.8	1740.9	1751.8	1803.3	1914.6	1879.4	1693.9	1431.5	1182.6	1009.8
40°	1809.7	1816.9	1825.1	1835.9	1912.8	2029.6	1958.1	1729.2	1408.8	1123.8	941.9
42.5°	1896.5	1906.5	1919.2	1939.1	2030.5	2130.9	2017.8	1734.6	1357.3	1057.8	861.4
45°	1994.3	2012.4	2026.8	2050.4	2153.5	2218.7	2054.0	1702.9	1292.1	970.9	775.4
47.5°	2107.4	2121.9	2147.2	2172.5	2275.7	2278.4	2057.6	1641.4	1203.4	884.0	684.1
50°	2246.7	2255.8	2293.8	2309.2	2406.0	2340.8	2031.4	1558.1	1110.2	786.3	582.7
52.5°	2432.2	2444.9	2493.7	2517.3	2586.0	2425.9	1994.3	1467.7	1003.5	676.8	478.7
55°	2798.7	2853.9	2888.3	2929.0	2973.3	2618.6	1978.0	1370.8	883.1	550.1	379.1
57.5°	3827.5	3809.4	3885.4	3977.7	3976.8	3059.3	2075.7	1287.6	741.1	420.8	291.4
60°	5360.3	5377.5	5338.6	5393.8	5218.2	3605.8	2209.6	1199.8	580.9	313.1	222.6
62.5°	6499.5	6399.9	6344.7	6279.6	5893.2	3665.5	2111.9	1019.8	422.6	219.9	171.0
65°	6769.1	6652.4	6533.9	6409.9	5827.2	3304.5	1732.8	748.3	273.3	151.1	135.7
67.5°	6503.1	6315.8	6164.7	6037.1	5339.5	2739.0	1266.8	459.7	156.5	122.2	115.8
70°	5813.6	5606.4	5362.1	5219.1	4496.2	2018.7	811.6	247.9	120.3	108.6	105.9
72.5°	4255.5	4085.4	3818.4	3654.7	3228.5	1227.0	453.3	139.3	112.2	104.1	100.4
75°	1657.7	1569.0	1457.7	1466.7	1309.3	542.9	205.4	120.3	109.5	102.2	98.6
77.5°	285.0	277.8	257.0	257.0	292.3	198.2	136.6	121.2	108.6	100.4	94.1
80°	171.0	167.4	159.3	157.4	152.0	139.3	131.2	123.1	106.8	95.0	86.9
82.5°	112.2	107.7	105.0	104.1	113.1	122.2	123.1	122.2	101.3	82.3	70.6
85°	48.0	48.0	48.0	48.9	65.1	98.6	101.3	108.6	83.2	64.2	50.7
87.5°	8.1	10.0	10.0	10.9	11.8	21.7	27.1	35.3	28.1	27.1	24.4
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):

	165°	175°	180°
0°	831.5	831.5	831.5
2.5°	808.9	807.1	807.1
5°	806.2	804.4	805.3
7.5°	817.1	813.5	814.4
10°	837.0	833.4	831.5
12.5°	862.3	857.8	857.8
15°	888.6	877.7	876.8
17.5°	910.3	896.7	894.9
20°	934.7	916.6	913.9
22.5°	957.3	932.9	929.3
25°	973.6	943.7	939.2
27.5°	980.8	945.6	941.9
30°	986.3	946.5	941.0
32.5°	980.8	938.3	933.8
35°	951.0	904.8	902.1
37.5°	899.4	847.8	844.2
40°	831.5	777.3	768.2
42.5°	744.7	694.0	684.1
45°	660.5	602.6	598.1
47.5°	570.1	514.9	517.6
50°	475.0	425.3	424.4
52.5°	384.6	341.1	338.4
55°	303.1	272.4	269.6
57.5°	239.8	223.5	220.8
60°	195.4	187.3	184.6
62.5°	157.4	154.7	153.8
65°	131.2	131.2	131.2
67.5°	114.0	114.9	114.9
70°	105.0	105.9	105.0
72.5°	101.3	104.1	104.1
75°	98.6	100.4	96.8
77.5°	96.8	97.7	91.4
80°	95.9	95.0	83.2
82.5°	83.2	80.5	70.6
85°	76.0	57.9	48.9
87.5°	38.9	27.1	20.8
90°	0.0	0.0	0.0

(END OF REPORT)