

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: P181259

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181259
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-F04-LED-E1-T2-7030
Description: ICON SITE MEDIUM 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: 8595.9 lumens
Efficiency: N/A
Efficacy: 84.1 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

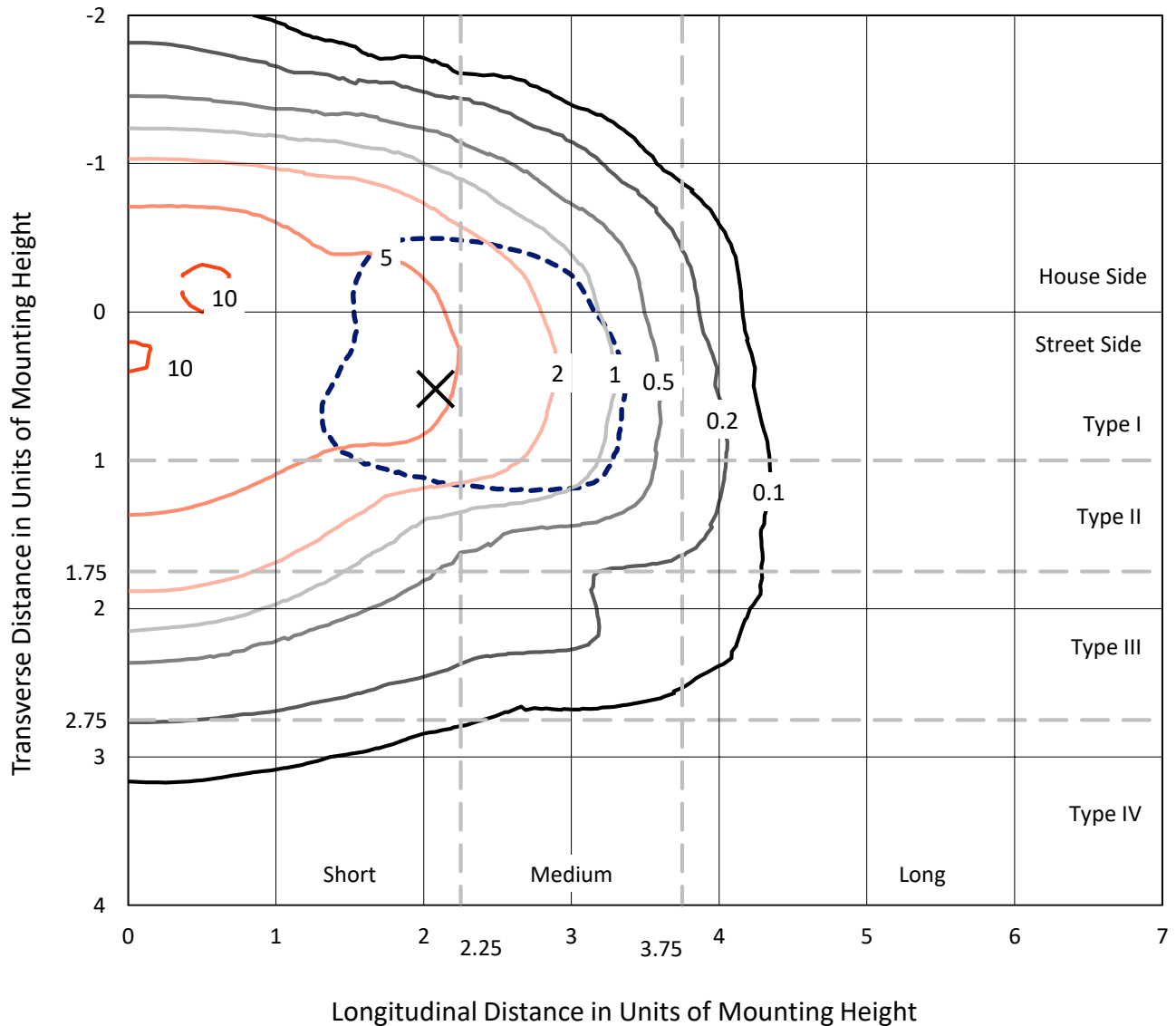


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

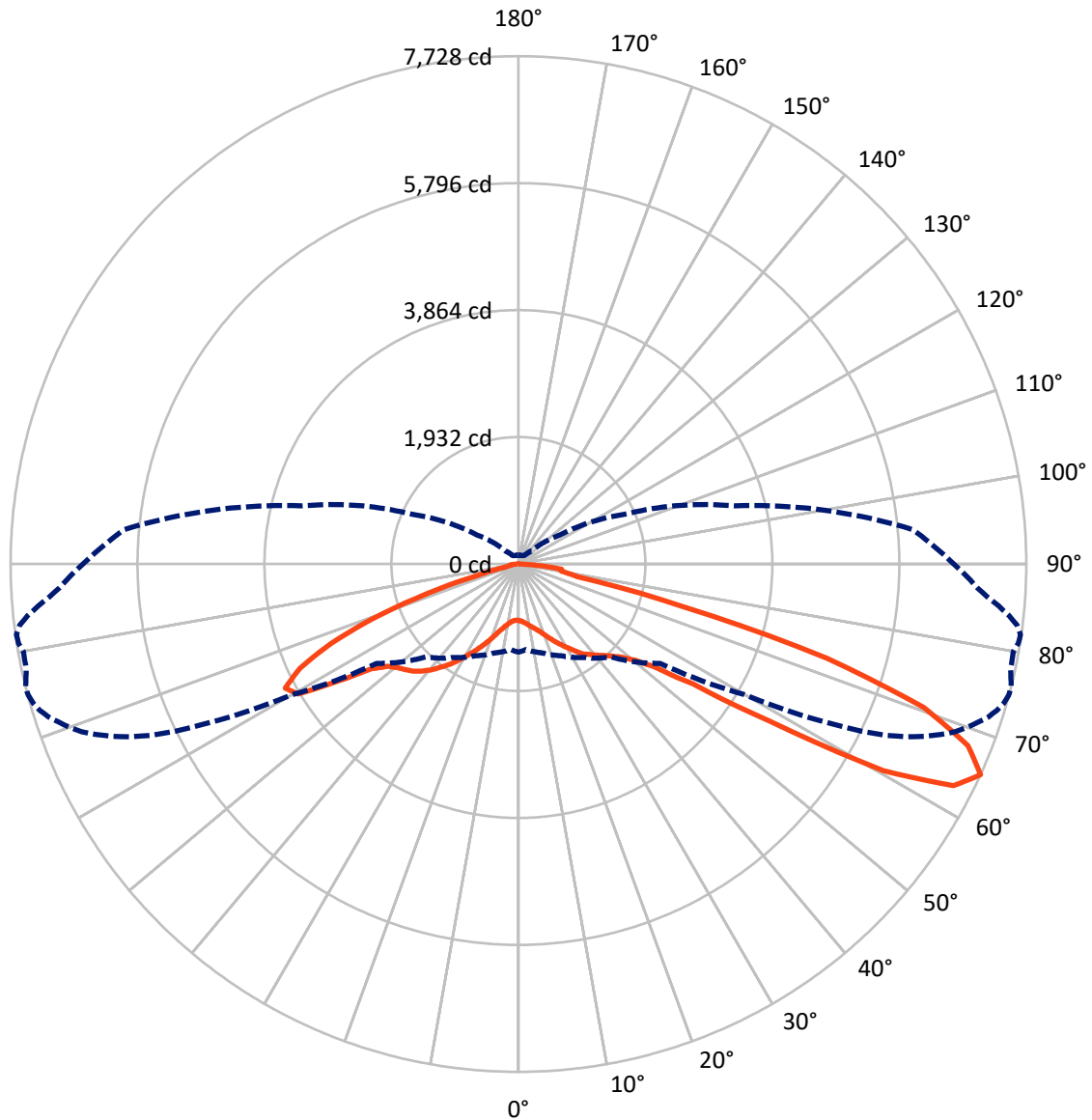


Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - Semi-Cutoff

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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	3010.0	0.0	3010.0
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	5585.8	0.0	5585.8
	% Fixture	65.0	0.0	65.0
Total	Lumens	8595.9	0.0	8595.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.1	1.0
10°-20°	295.6	3.4
20°-30°	580.7	6.8
30°-40°	965.0	11.2
40°-50°	1417.9	16.5
50°-60°	1963.1	22.8
60°-70°	2343.1	27.3
70°-80°	828.6	9.6
80°-90°	115.8	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°	8595.9	100.0
0°-180°	8595.9	100.0



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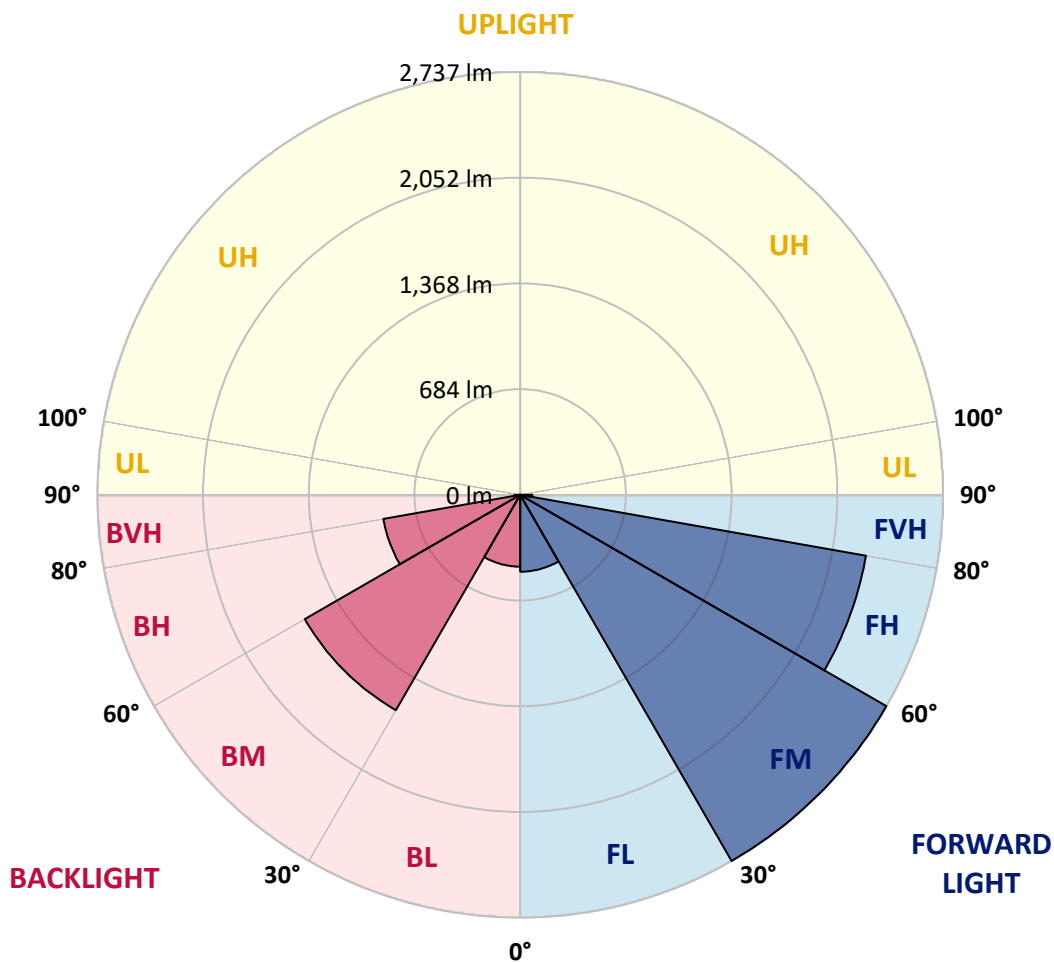
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	497.4	5.8			
FM (30°-60°)	2736.7	31.8			
FH (60°-80°)	2272.6	26.4			G2/5000
FVH (80°-90°)	79.1	0.9			G1/100
BL (0°-30°)	465.0	5.4	B1/500		
BM (30°-60°)	1609.3	18.7	B2/2500		
BH (60°-80°)	899.1	10.5	B2/1000		G2/1000
BVH (80°-90°)	36.6	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°	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4
2.5°	896.8	897.8	895.9	895.0	892.2	887.5	883.7	880.0	880.0	880.0	877.2
5°	936.1	938.0	934.2	931.4	923.1	918.3	911.8	907.2	905.3	904.3	901.5
7.5°	985.7	982.9	977.3	975.4	968.8	958.6	946.4	937.0	937.0	936.1	937.0
10°	1035.3	1027.8	1024.9	1022.1	1011.9	998.8	984.8	974.4	973.5	972.6	969.8
12.5°	1084.8	1082.1	1079.2	1068.9	1058.6	1038.1	1022.1	1011.9	1011.0	1011.9	1008.1
15°	1150.2	1143.7	1140.9	1123.2	1100.8	1078.2	1058.6	1049.3	1046.5	1047.4	1044.6
17.5°	1200.8	1200.8	1194.2	1174.6	1145.6	1114.7	1094.1	1088.6	1087.6	1087.6	1088.6
20°	1241.0	1240.1	1233.5	1217.6	1183.0	1152.2	1141.9	1140.0	1139.1	1139.1	1141.9
22.5°	1263.4	1261.6	1258.8	1241.0	1213.9	1193.3	1194.2	1199.8	1201.7	1203.6	1207.4
25°	1274.7	1271.8	1270.9	1258.8	1239.2	1236.3	1253.1	1268.1	1271.8	1275.6	1280.3
27.5°	1293.4	1288.7	1290.5	1285.9	1281.2	1289.6	1324.2	1340.1	1342.9	1347.6	1350.4
30°	1344.8	1342.9	1350.4	1352.3	1356.0	1368.2	1400.0	1415.0	1421.5	1421.5	1434.6
32.5°	1443.0	1443.9	1445.8	1465.4	1472.0	1480.4	1497.2	1509.4	1510.3	1511.3	1523.5
35°	1574.9	1580.5	1596.4	1613.2	1629.1	1628.2	1617.9	1624.4	1619.7	1625.4	1626.3
37.5°	1741.3	1733.9	1757.2	1795.5	1819.9	1813.3	1767.5	1737.6	1746.0	1742.2	1739.5
40°	1869.4	1877.9	1922.7	1973.2	1991.9	2012.6	1952.7	1901.2	1893.8	1879.7	1871.4
42.5°	2046.2	2047.2	2083.6	2121.0	2175.3	2220.1	2181.8	2107.9	2085.5	2068.7	2032.2
45°	2209.9	2207.1	2236.9	2282.8	2347.4	2411.8	2425.9	2345.5	2337.0	2307.1	2259.5
47.5°	2319.3	2315.5	2336.1	2395.9	2500.7	2606.3	2664.4	2640.0	2624.1	2612.0	2537.1
50°	2393.1	2385.7	2409.0	2472.7	2589.5	2752.3	2903.7	2924.4	2917.8	2917.8	2870.1
52.5°	2448.3	2448.3	2465.1	2516.6	2635.4	2838.3	3109.5	3213.3	3221.7	3231.1	3228.3
55°	2417.5	2422.2	2464.2	2539.1	2664.4	2898.2	3279.7	3507.0	3553.7	3593.0	3637.9
57.5°	2311.8	2327.7	2383.8	2506.3	2671.8	2943.1	3468.6	3918.4	4050.4	4164.4	4342.1
60°	2157.5	2178.1	2259.5	2415.6	2616.7	2870.1	3535.0	4266.4	4475.8	4724.6	5188.4
62.5°	1892.8	1913.4	1992.8	2149.0	2321.1	2590.4	3260.1	4317.8	4652.6	5005.1	5706.5
65°	1341.0	1308.3	1400.0	1540.3	1737.6	1998.5	2634.4	3972.7	4454.4	4932.2	5798.2
67.5°	747.3	744.4	800.6	905.3	1094.1	1374.7	1815.2	3046.8	3490.2	4031.7	5094.9
70°	515.3	520.9	556.5	669.6	825.8	1068.0	1293.4	1913.4	2232.3	2599.8	3645.4
72.5°	362.0	374.0	393.7	461.0	620.9	899.6	1321.4	1143.7	1302.7	1553.3	2192.1
75°	212.3	220.7	234.7	267.4	353.5	601.3	1368.2	1005.3	1005.3	1064.3	1326.1
77.5°	130.9	130.9	139.3	152.5	188.0	294.6	974.4	1129.7	1098.0	1064.3	1067.1
80°	67.3	72.0	84.2	90.7	104.7	134.7	437.7	1054.0	1155.9	1224.2	1176.5
82.5°	30.9	34.6	51.4	55.2	60.7	71.1	150.6	599.4	803.4	1057.7	1321.4
85°	15.9	15.9	27.2	33.7	36.5	32.7	55.2	242.2	366.6	559.3	875.4
87.5°	2.8	2.8	4.7	5.6	8.4	7.4	9.4	14.0	23.3	25.2	26.1
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4
2.5°	876.3	877.2	876.3	875.4	873.5	873.5	873.5	872.6	872.6	872.6	871.6
5°	901.5	897.8	898.7	896.8	895.9	895.0	895.9	894.1	892.2	893.1	892.2
7.5°	933.3	931.4	927.7	927.7	926.8	924.9	924.9	922.1	921.1	919.3	918.3
10°	968.8	964.2	966.1	964.2	965.1	961.4	959.5	957.7	955.7	955.7	956.7
12.5°	1005.3	1004.4	1001.6	999.7	999.7	996.9	997.9	996.9	994.1	993.2	990.3
15°	1042.7	1042.7	1039.9	1040.8	1039.9	1038.1	1036.2	1036.2	1034.3	1032.5	1033.4
17.5°	1086.7	1086.7	1086.7	1086.7	1087.6	1084.8	1085.8	1083.9	1082.1	1085.8	1085.8
20°	1143.7	1147.4	1147.4	1146.5	1151.3	1148.4	1147.4	1152.2	1147.4	1154.1	1153.1
22.5°	1209.2	1212.9	1212.9	1216.7	1217.6	1220.4	1222.3	1220.4	1224.2	1227.9	1227.9
25°	1282.1	1285.9	1288.7	1294.3	1297.1	1295.3	1296.2	1300.8	1302.7	1306.4	1310.2
27.5°	1358.8	1359.7	1363.5	1370.1	1374.7	1376.6	1377.5	1385.0	1386.0	1387.8	1391.5
30°	1433.7	1443.0	1441.1	1449.6	1452.4	1455.2	1460.8	1463.5	1470.1	1473.9	1473.9
32.5°	1521.6	1519.7	1527.2	1533.7	1538.4	1543.1	1547.7	1551.5	1555.3	1557.1	1566.4
35°	1631.0	1634.7	1634.7	1635.6	1646.9	1647.8	1651.5	1660.0	1662.8	1668.4	1672.1
37.5°	1739.5	1732.9	1732.0	1732.0	1728.2	1731.1	1732.0	1732.9	1736.7	1737.6	1741.3
40°	1861.0	1852.6	1845.1	1840.5	1832.9	1822.7	1820.8	1816.1	1819.0	1818.1	1819.0
42.5°	2027.5	2004.1	1986.3	1973.2	1958.2	1947.1	1938.6	1926.5	1918.1	1907.8	1906.0
45°	2239.8	2195.8	2165.9	2144.4	2122.9	2092.0	2074.2	2055.5	2038.7	2021.9	2007.8
47.5°	2518.4	2471.7	2424.0	2384.8	2351.1	2301.5	2251.0	2223.0	2190.2	2161.2	2140.7
50°	2846.7	2790.6	2768.2	2712.9	2670.9	2596.1	2533.4	2487.6	2422.2	2378.2	2339.8
52.5°	3182.4	3168.4	3156.3	3109.5	3059.9	3016.9	2961.8	2881.3	2814.9	2764.4	2685.9
55°	3639.7	3646.3	3641.6	3616.4	3598.6	3557.5	3535.0	3464.9	3435.0	3362.0	3279.7
57.5°	4409.4	4461.8	4528.2	4554.4	4589.9	4556.2	4595.6	4643.2	4524.5	4565.6	4491.7
60°	5392.3	5632.7	5775.8	5951.6	6066.5	6227.5	6256.4	6298.6	6286.4	6309.7	6357.4
62.5°	5992.7	6277.9	6551.9	6751.1	6964.4	7082.2	7224.3	7323.5	7426.4	7495.6	7476.0
65°	6169.4	6463.1	6711.9	6929.8	7120.5	7264.6	7396.4	7520.8	7615.3	7681.6	7721.0
67.5°	5520.4	5903.9	6165.7	6421.1	6667.0	6818.5	6928.9	7049.4	7187.9	7302.9	7325.3
70°	4154.2	4729.2	5100.5	5406.4	5695.3	5899.2	6053.5	6165.7	6273.2	6355.6	6445.3
72.5°	2598.0	3101.1	3525.7	3922.2	4229.0	4509.5	4639.5	4888.2	4855.5	4918.2	4985.5
75°	1557.1	1802.2	2035.9	2315.5	2476.4	2710.2	2752.3	2793.4	2771.9	2701.8	2754.2
77.5°	1082.1	1122.2	1120.4	1104.5	1087.6	1046.5	993.2	964.2	944.6	916.5	927.7
80°	1088.6	1001.6	868.7	730.4	603.2	519.1	485.4	485.4	520.0	569.5	619.1
82.5°	1300.8	1208.3	1077.3	901.5	714.5	581.7	492.8	457.3	463.8	514.3	578.0
85°	877.2	897.8	787.4	720.1	570.4	444.2	372.2	302.0	267.4	275.9	312.4
87.5°	31.8	38.3	14.0	18.7	13.1	11.3	11.3	12.2	8.4	10.3	9.4
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4
2.5°	870.7	869.8	869.8	867.8	867.8	866.9	866.9	866.0	865.0	865.0	864.1
5°	891.3	890.3	888.5	887.5	885.6	885.6	884.7	882.8	882.8	880.9	880.0
7.5°	920.2	918.3	916.5	915.5	914.6	911.8	911.8	910.0	910.0	908.1	907.2
10°	954.8	952.9	951.1	952.0	949.2	948.3	946.4	946.4	943.6	942.7	942.7
12.5°	992.2	991.3	991.3	988.5	987.5	986.6	982.9	982.9	982.9	981.0	982.0
15°	1032.5	1033.4	1030.6	1033.4	1032.5	1029.7	1029.7	1029.7	1025.9	1030.6	1026.8
17.5°	1086.7	1089.5	1087.6	1088.6	1086.7	1086.7	1087.6	1086.7	1088.6	1088.6	1094.1
20°	1154.1	1155.0	1159.6	1157.8	1157.8	1156.8	1158.7	1159.6	1163.4	1161.5	1165.2
22.5°	1227.9	1232.6	1233.5	1237.2	1237.2	1236.3	1238.1	1242.0	1243.8	1246.6	1245.7
25°	1312.1	1314.9	1318.6	1314.0	1321.4	1321.4	1323.3	1328.0	1328.9	1328.9	1335.5
27.5°	1390.6	1398.1	1399.1	1403.7	1400.9	1402.8	1409.3	1412.1	1415.9	1415.9	1417.8
30°	1479.5	1482.2	1484.2	1489.8	1488.8	1489.8	1490.7	1495.4	1495.4	1500.0	1504.8
32.5°	1571.1	1573.0	1574.9	1580.5	1582.3	1586.1	1584.2	1587.9	1592.7	1593.6	1596.4
35°	1680.6	1682.4	1684.3	1692.7	1693.6	1700.2	1702.1	1700.2	1707.6	1703.0	1707.6
37.5°	1744.1	1752.6	1754.4	1760.0	1758.2	1762.8	1765.7	1769.4	1771.3	1775.0	1782.4
40°	1821.8	1824.6	1830.2	1832.9	1836.8	1837.7	1841.4	1844.2	1847.0	1855.5	1863.8
42.5°	1901.2	1904.9	1907.8	1911.5	1916.2	1919.9	1922.7	1931.2	1933.0	1938.6	1954.5
45°	1997.6	1995.7	1996.7	1997.6	1999.5	2004.1	2012.6	2020.9	2026.5	2039.6	2052.8
47.5°	2117.3	2105.1	2100.5	2092.9	2094.8	2105.1	2107.0	2121.0	2132.2	2144.4	2160.3
50°	2298.7	2266.0	2246.3	2226.7	2224.9	2230.4	2237.9	2252.9	2266.0	2281.9	2304.3
52.5°	2603.6	2540.9	2501.6	2447.4	2432.4	2429.6	2424.0	2432.4	2436.2	2457.7	2499.7
55°	3220.8	3104.9	3030.1	2945.9	2867.3	2843.9	2799.0	2808.4	2799.0	2812.1	2874.8
57.5°	4509.5	4416.9	4343.9	4236.4	4101.8	3958.6	3923.1	3776.3	3805.3	3889.4	3835.2
60°	6380.8	6347.1	6294.7	6243.3	6059.1	5955.3	5786.0	5767.3	5648.6	5649.5	5571.8
62.5°	7428.2	7471.2	7439.5	7424.5	7414.2	7381.4	7297.3	7196.3	7044.8	6935.4	6774.6
65°	7727.5	7691.0	7656.4	7651.8	7649.0	7702.3	7714.4	7643.3	7505.8	7335.7	7150.5
67.5°	7378.6	7358.1	7360.0	7320.7	7345.0	7437.5	7502.1	7482.5	7356.2	7150.5	6914.8
70°	6548.2	6508.0	6549.2	6600.6	6637.1	6690.4	6754.9	6770.8	6655.8	6444.4	6204.0
72.5°	4903.2	4909.8	4949.1	4963.1	5109.9	5094.9	5152.9	4964.0	4880.8	4679.7	4556.2
75°	2580.2	2538.2	2647.6	2415.6	2320.2	2386.6	2200.5	2021.9	2059.3	2090.2	1867.5
77.5°	911.8	852.9	752.8	712.7	592.9	502.2	410.5	370.3	348.8	337.6	323.5
80°	654.6	673.3	652.7	604.1	513.4	411.4	324.5	256.3	219.8	200.1	187.1
82.5°	662.1	736.0	768.7	754.7	672.4	508.7	335.7	214.1	159.0	132.8	123.4
85°	355.4	389.0	374.0	315.2	283.4	169.3	116.0	77.6	65.5	59.8	55.2
87.5°	14.0	11.3	9.4	9.4	10.3	11.3	9.4	10.3	9.4	9.4	9.4
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4
2.5°	862.2	862.2	862.2	861.3	859.4	854.8	850.1	846.3	843.5	840.7	837.0
5°	879.1	877.2	877.2	877.2	869.8	862.2	855.7	849.1	843.5	838.9	835.2
7.5°	907.2	906.2	902.4	901.5	895.9	883.7	876.3	865.0	858.5	852.0	850.1
10°	940.8	939.9	938.9	938.0	930.5	918.3	909.0	898.7	889.4	880.0	870.7
12.5°	980.1	979.2	978.2	975.4	972.6	966.1	955.7	944.6	933.3	913.7	903.4
15°	1028.8	1030.6	1028.8	1027.8	1025.9	1026.8	1020.3	1004.4	986.6	961.4	939.9
17.5°	1093.2	1091.4	1090.4	1094.1	1093.2	1098.0	1096.0	1075.4	1048.4	1008.1	970.7
20°	1164.3	1164.3	1168.1	1170.9	1179.3	1191.4	1185.9	1160.6	1111.0	1054.9	1006.2
22.5°	1249.4	1251.3	1255.0	1253.1	1266.2	1285.9	1287.7	1252.2	1187.7	1110.1	1041.8
25°	1338.2	1340.1	1336.4	1342.0	1363.5	1391.5	1397.2	1346.7	1261.6	1160.6	1071.7
27.5°	1422.4	1424.3	1424.3	1431.8	1452.4	1500.0	1505.7	1449.6	1336.4	1204.6	1093.2
30°	1504.8	1512.2	1514.1	1515.9	1546.8	1613.2	1625.4	1544.0	1401.9	1237.2	1108.2
32.5°	1608.6	1611.4	1615.1	1619.7	1655.3	1736.7	1736.7	1625.4	1443.9	1257.9	1111.0
35°	1719.8	1720.8	1729.1	1730.2	1780.6	1862.0	1846.1	1692.7	1473.9	1253.1	1090.4
37.5°	1787.2	1790.9	1799.3	1810.5	1863.8	1978.9	1942.4	1750.7	1479.5	1222.3	1043.6
40°	1870.3	1877.9	1886.2	1897.5	1977.0	2097.6	2023.7	1787.2	1456.1	1161.5	973.5
42.5°	1960.2	1970.4	1983.5	2004.1	2098.5	2202.3	2085.5	1792.8	1402.8	1093.2	890.3
45°	2061.1	2079.8	2094.8	2119.2	2225.8	2293.1	2122.9	1760.0	1335.5	1003.4	801.5
47.5°	2178.1	2193.0	2219.2	2245.4	2352.0	2354.8	2126.6	1696.5	1243.8	913.7	707.0
50°	2322.1	2331.5	2370.7	2386.6	2486.7	2419.4	2099.5	1610.4	1147.4	812.7	602.2
52.5°	2513.8	2526.9	2577.4	2601.7	2672.8	2507.3	2061.1	1516.8	1037.1	699.5	494.7
55°	2892.6	2949.6	2985.1	3027.2	3073.0	2706.4	2044.3	1416.8	912.7	568.6	391.8
57.5°	3955.8	3937.1	4015.7	4111.1	4110.2	3161.9	2145.3	1330.8	766.0	434.9	301.1
60°	5540.0	5557.8	5517.6	5574.6	5393.2	3726.7	2283.7	1240.1	600.4	323.5	230.0
62.5°	6717.4	6614.6	6557.5	6490.3	6090.9	3788.5	2182.7	1054.0	436.7	227.3	176.7
65°	6996.1	6875.5	6753.0	6624.9	6022.6	3415.3	1790.9	773.4	282.4	156.2	140.3
67.5°	6721.3	6527.7	6371.5	6239.6	5518.5	2830.8	1309.3	475.1	161.8	126.2	119.7
70°	6008.6	5794.5	5542.0	5394.2	4647.0	2086.4	838.9	256.3	124.4	112.2	109.4
72.5°	4398.2	4222.4	3946.5	3777.2	3336.8	1268.1	468.6	144.0	116.0	107.5	103.8
75°	1713.3	1621.6	1506.6	1515.9	1353.2	561.1	212.3	124.4	113.1	105.7	102.0
77.5°	294.6	287.1	265.6	265.6	302.0	204.8	141.2	125.3	112.2	103.8	97.3
80°	176.7	173.0	164.6	162.7	157.1	144.0	135.6	127.2	110.3	98.2	89.8
82.5°	116.0	111.3	108.5	107.5	116.9	126.2	127.2	126.2	104.7	85.1	72.9
85°	49.6	49.6	49.6	50.5	67.3	102.0	104.7	112.2	86.0	66.4	52.4
87.5°	8.4	10.3	10.3	11.3	12.2	22.4	28.1	36.5	29.0	28.1	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):

	165°	175°	180°
0°	859.4	859.4	859.4
2.5°	836.1	834.1	834.1
5°	833.2	831.4	832.3
7.5°	844.5	840.7	841.7
10°	865.0	861.3	859.4
12.5°	891.3	886.5	886.5
15°	918.3	907.2	906.2
17.5°	940.8	926.8	924.9
20°	966.1	947.4	944.6
22.5°	989.4	964.2	960.5
25°	1006.2	975.4	970.7
27.5°	1013.8	977.3	973.5
30°	1019.4	978.2	972.6
32.5°	1013.8	969.8	965.1
35°	982.9	935.2	932.4
37.5°	929.6	876.3	872.6
40°	859.4	803.4	794.0
42.5°	769.7	717.3	707.0
45°	682.7	622.8	618.1
47.5°	589.2	532.1	534.9
50°	491.0	439.5	438.6
52.5°	397.5	352.6	349.8
55°	313.3	281.5	278.7
57.5°	247.8	231.0	228.2
60°	202.0	193.6	190.8
62.5°	162.7	159.9	159.0
65°	135.6	135.6	135.6
67.5°	117.9	118.8	118.8
70°	108.5	109.4	108.5
72.5°	104.7	107.5	107.5
75°	102.0	103.8	100.1
77.5°	100.1	101.0	94.4
80°	99.2	98.2	86.0
82.5°	86.0	83.3	72.9
85°	78.5	59.8	50.5
87.5°	40.2	28.1	21.5
90°	0.0	0.0	0.0

(END OF REPORT)