

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: P154404

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P154404
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: VXS-F04-LED-E1-T2-7030
Description: VISION 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: 9240.5 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
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

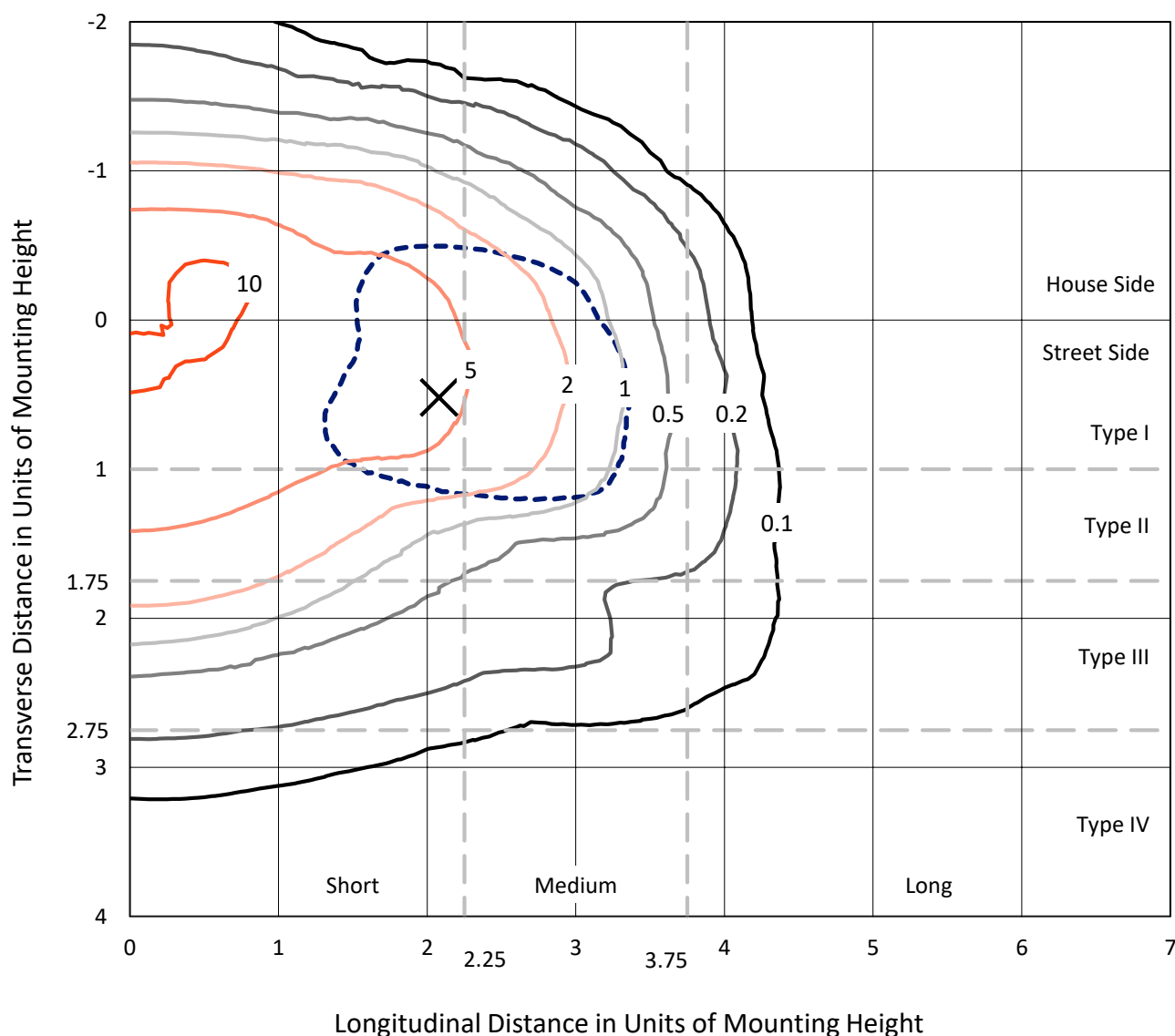


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

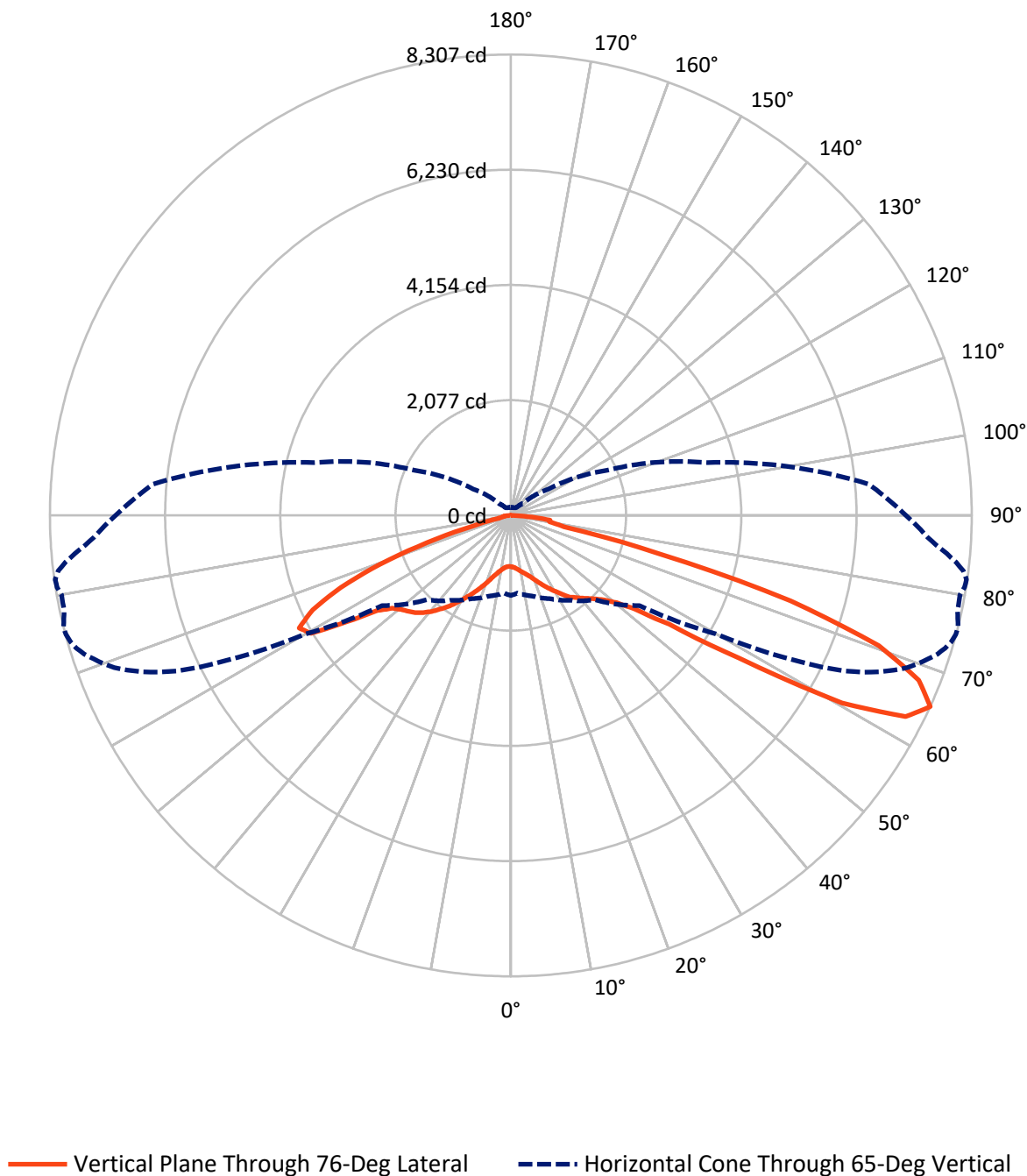


Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3235.8	0.0	3235.8
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	6004.7	0.0	6004.7
	% Fixture	65.0	0.0	65.0
Total	Lumens	9240.5	0.0	9240.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	1.0
10°-20°	317.8	3.4
20°-30°	624.3	6.8
30°-40°	1037.3	11.2
40°-50°	1524.2	16.5
50°-60°	2110.3	22.8
60°-70°	2518.8	27.3
70°-80°	890.8	9.6
80°-90°	124.5	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°	9240.5	100.0
0°-180°	9240.5	100.0

Coefficient of Utilization



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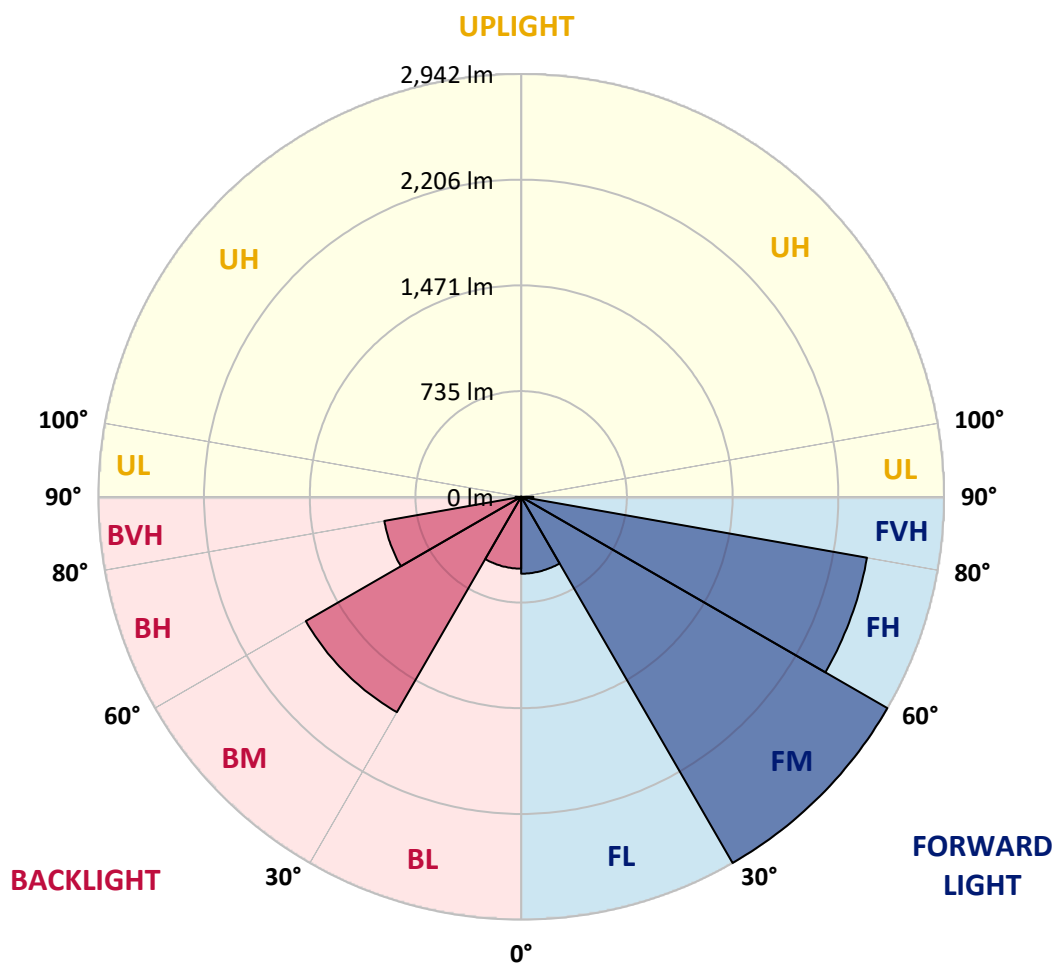
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	534.7	5.8			
FM	(30°-60°)	2941.9	31.8			
FH	(60°-80°)	2443.1	26.4			G2/5000
FVH	(80°-90°)	85.1	0.9			G1/100
BL	(0°-30°)	499.9	5.4	B1/500		
BM	(30°-60°)	1730.0	18.7	B2/2500		
BH	(60°-80°)	966.5	10.5	B2/1000		G2/1000
BVH	(80°-90°)	39.4	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°	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9
2.5°	964.1	965.1	963.1	962.1	959.1	954.1	950.1	946.0	946.0	946.0	943.0
5°	1006.3	1008.3	1004.4	1001.3	992.2	987.3	980.2	975.1	973.2	972.1	969.1
7.5°	1059.6	1056.6	1050.6	1048.6	1041.6	1030.5	1017.4	1007.4	1007.4	1006.3	1007.4
10°	1112.8	1104.9	1101.9	1098.9	1087.8	1073.7	1058.7	1047.6	1046.5	1045.5	1042.5
12.5°	1166.2	1163.1	1160.1	1149.1	1138.0	1116.0	1098.9	1087.8	1086.7	1087.8	1083.7
15°	1236.6	1229.5	1226.5	1207.4	1183.3	1159.2	1138.0	1128.0	1125.0	1126.0	1122.9
17.5°	1290.9	1290.9	1283.8	1262.7	1231.5	1198.3	1176.3	1170.2	1169.2	1169.2	1170.2
20°	1334.1	1333.1	1326.0	1308.9	1271.7	1238.5	1227.5	1225.5	1224.5	1224.5	1227.5
22.5°	1358.2	1356.2	1353.2	1334.1	1304.9	1282.8	1283.8	1289.8	1291.8	1293.9	1297.8
25°	1370.3	1367.3	1366.2	1353.2	1332.0	1329.0	1347.2	1363.2	1367.3	1371.3	1376.3
27.5°	1390.4	1385.4	1387.4	1382.3	1377.3	1386.3	1423.5	1440.6	1443.6	1448.7	1451.7
30°	1445.7	1443.6	1451.7	1453.7	1457.7	1470.8	1505.0	1521.0	1528.1	1528.1	1542.2
32.5°	1551.2	1552.2	1554.2	1575.3	1582.4	1591.4	1609.5	1622.6	1623.6	1624.6	1637.7
35°	1693.0	1699.0	1716.1	1734.2	1751.3	1750.3	1739.2	1746.2	1741.2	1747.3	1748.3
37.5°	1871.9	1863.8	1889.0	1930.3	1956.4	1949.3	1900.1	1867.9	1876.9	1873.0	1869.9
40°	2009.6	2018.7	2066.9	2121.2	2141.3	2163.4	2099.1	2043.8	2035.8	2020.7	2011.6
42.5°	2199.7	2200.6	2239.9	2280.1	2338.3	2386.6	2345.4	2266.0	2241.9	2223.7	2184.6
45°	2375.5	2372.5	2404.8	2454.0	2523.3	2592.7	2607.8	2521.3	2512.3	2480.1	2428.9
47.5°	2493.2	2489.2	2511.3	2575.6	2688.2	2801.9	2864.1	2838.0	2820.9	2807.9	2727.5
50°	2572.6	2564.6	2589.7	2658.0	2783.7	2958.7	3121.6	3143.6	3136.6	3136.6	3085.4
52.5°	2631.9	2631.9	2650.1	2705.3	2833.0	3051.2	3342.7	3454.3	3463.3	3473.4	3470.4
55°	2598.8	2603.8	2649.0	2729.4	2864.1	3115.5	3525.7	3769.9	3820.2	3862.5	3910.7
57.5°	2485.2	2502.3	2562.6	2694.3	2872.2	3163.7	3728.7	4212.3	4354.1	4476.7	4667.8
60°	2319.3	2341.5	2428.9	2596.8	2812.8	3085.4	3800.1	4586.3	4811.5	5078.9	5577.5
62.5°	2034.8	2056.9	2142.4	2310.3	2495.2	2784.8	3504.6	4641.6	5001.5	5380.5	6134.5
65°	1441.7	1406.4	1505.0	1655.8	1867.9	2148.4	2832.0	4270.6	4788.4	5302.1	6233.1
67.5°	803.2	800.2	860.5	973.2	1176.3	1477.8	1951.3	3275.3	3751.9	4334.0	5477.0
70°	553.9	560.0	598.1	719.8	887.7	1148.1	1390.4	2056.9	2399.7	2794.8	3918.8
72.5°	389.0	402.2	423.2	495.6	667.6	967.2	1420.5	1229.5	1400.4	1669.8	2356.5
75°	228.2	237.3	252.3	287.6	380.0	646.4	1470.8	1080.7	1080.7	1144.0	1425.6
77.5°	140.7	140.7	149.8	163.8	202.1	316.7	1047.6	1214.4	1180.2	1144.0	1147.0
80°	72.3	77.4	90.5	97.5	112.6	144.8	470.5	1133.0	1242.6	1316.0	1264.7
82.5°	33.2	37.2	55.3	59.3	65.4	76.4	161.9	644.5	863.5	1137.0	1420.5
85°	17.1	17.1	29.1	36.2	39.2	35.2	59.3	260.4	394.1	601.1	940.9
87.5°	3.0	3.0	5.1	6.0	9.0	8.1	10.1	15.1	25.2	27.2	28.2
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°	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9
2.5°	942.0	943.0	942.0	940.9	939.0	939.0	939.0	937.9	937.9	937.9	937.0
5°	969.1	965.1	966.1	964.1	963.1	962.1	963.1	961.1	959.1	960.1	959.1
7.5°	1003.3	1001.3	997.3	997.3	996.3	994.3	994.3	991.3	990.3	988.2	987.3
10°	1041.6	1036.5	1038.5	1036.5	1037.5	1033.5	1031.5	1029.4	1027.5	1027.5	1028.5
12.5°	1080.7	1079.7	1076.7	1074.7	1074.7	1071.7	1072.6	1071.7	1068.7	1067.7	1064.7
15°	1120.9	1120.9	1117.9	1119.0	1117.9	1116.0	1113.9	1113.9	1111.9	1109.8	1110.9
17.5°	1168.2	1168.2	1168.2	1168.2	1169.2	1166.2	1167.2	1165.2	1163.1	1167.2	1167.2
20°	1229.5	1233.6	1233.6	1232.5	1237.5	1234.5	1233.6	1238.5	1233.6	1240.6	1239.6
22.5°	1299.9	1303.9	1303.9	1307.9	1308.9	1311.9	1314.0	1311.9	1316.0	1320.0	1320.0
25°	1378.3	1382.3	1385.4	1391.4	1394.4	1392.3	1393.4	1398.4	1400.4	1404.5	1408.5
27.5°	1460.7	1461.8	1465.8	1472.8	1477.8	1479.8	1480.8	1488.9	1489.8	1491.9	1496.0
30°	1541.1	1551.2	1549.2	1558.2	1561.2	1564.2	1570.4	1573.4	1580.4	1584.4	1584.4
32.5°	1635.6	1633.7	1641.7	1648.7	1653.8	1658.8	1663.8	1667.9	1671.8	1673.9	1683.9
35°	1753.3	1757.3	1757.3	1758.3	1770.4	1771.4	1775.4	1784.5	1787.5	1793.5	1797.5
37.5°	1869.9	1862.9	1861.9	1861.9	1857.8	1860.8	1861.9	1862.9	1866.8	1867.9	1871.9
40°	2000.6	1991.5	1983.5	1978.4	1970.5	1959.4	1957.4	1952.3	1955.3	1954.3	1955.3
42.5°	2179.6	2154.4	2135.3	2121.2	2105.2	2093.1	2084.0	2071.0	2062.0	2050.9	2048.8
45°	2407.8	2360.5	2328.3	2305.2	2282.1	2248.9	2229.8	2209.7	2191.6	2173.5	2158.4
47.5°	2707.4	2657.1	2605.8	2563.6	2527.4	2474.1	2419.8	2389.6	2354.5	2323.3	2301.1
50°	3060.2	2999.9	2975.8	2916.5	2871.2	2790.8	2723.4	2674.2	2603.8	2556.6	2515.3
52.5°	3421.1	3406.0	3393.0	3342.7	3289.4	3243.2	3183.8	3097.4	3026.0	2971.7	2887.3
55°	3912.7	3919.8	3914.7	3887.6	3868.5	3824.2	3800.1	3724.8	3692.5	3614.1	3525.7
57.5°	4740.1	4796.4	4867.8	4896.0	4934.1	4897.9	4940.2	4991.4	4863.7	4908.0	4828.6
60°	5796.7	6055.0	6208.9	6397.9	6521.6	6694.5	6725.6	6770.9	6757.8	6782.9	6834.2
62.5°	6442.1	6748.7	7043.3	7257.4	7486.6	7613.4	7766.1	7872.7	7983.3	8057.7	8036.6
65°	6632.1	6947.8	7215.2	7449.4	7654.5	7809.3	7951.1	8084.9	8186.3	8257.7	8300.0
67.5°	5934.4	6346.6	6628.1	6902.6	7166.9	7329.8	7448.5	7578.1	7726.9	7850.6	7874.7
70°	4465.7	5083.9	5483.0	5811.8	6122.4	6341.6	6507.5	6628.1	6743.7	6832.2	6928.7
72.5°	2792.7	3333.7	3790.1	4216.4	4546.1	4847.7	4987.5	5254.8	5219.7	5287.0	5359.4
75°	1673.9	1937.3	2188.6	2489.2	2662.1	2913.5	2958.7	3002.9	2979.8	2904.4	2960.7
77.5°	1163.1	1206.4	1204.4	1187.3	1169.2	1125.0	1067.7	1036.5	1015.3	985.2	997.3
80°	1170.2	1076.7	934.0	785.2	648.4	557.9	521.8	521.8	559.0	612.2	665.5
82.5°	1398.4	1298.9	1158.1	969.1	768.1	625.3	529.8	491.6	498.7	553.0	621.2
85°	943.0	965.1	846.5	774.1	613.3	477.5	400.1	324.8	287.6	296.6	335.8
87.5°	34.2	41.2	15.1	20.1	14.1	12.0	12.0	13.1	9.0	11.1	10.1
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9
2.5°	936.0	934.9	934.9	933.0	933.0	931.9	931.9	930.9	929.9	929.9	928.9
5°	958.0	957.1	955.0	954.1	952.0	952.0	951.1	949.0	949.0	947.0	946.0
7.5°	989.2	987.3	985.2	984.2	983.2	980.2	980.2	978.1	978.1	976.2	975.1
10°	1026.4	1024.5	1022.4	1023.4	1020.4	1019.4	1017.4	1017.4	1014.4	1013.4	1013.4
12.5°	1066.6	1065.6	1065.6	1062.6	1061.7	1060.6	1056.6	1056.6	1056.6	1054.6	1055.5
15°	1109.8	1110.9	1107.9	1110.9	1109.8	1106.8	1106.8	1106.8	1102.8	1107.9	1103.8
17.5°	1168.2	1171.2	1169.2	1170.2	1168.2	1168.2	1169.2	1168.2	1170.2	1170.2	1176.3
20°	1240.6	1241.6	1246.6	1244.6	1244.6	1243.6	1245.6	1246.6	1250.7	1248.6	1252.6
22.5°	1320.0	1325.0	1326.0	1330.1	1330.1	1329.0	1331.1	1335.0	1337.1	1340.1	1339.1
25°	1410.5	1413.5	1417.5	1412.4	1420.5	1420.5	1422.5	1427.6	1428.6	1428.6	1435.6
27.5°	1494.9	1503.0	1503.9	1509.0	1506.0	1508.0	1515.0	1518.0	1522.1	1522.1	1524.0
30°	1590.5	1593.5	1595.4	1601.5	1600.5	1601.5	1602.5	1607.6	1607.6	1612.5	1617.6
32.5°	1688.9	1691.0	1693.0	1699.0	1701.0	1705.1	1703.0	1707.0	1712.0	1713.1	1716.1
35°	1806.5	1808.6	1810.6	1819.7	1820.6	1827.7	1829.7	1827.7	1835.8	1830.7	1835.8
37.5°	1874.9	1883.9	1886.0	1892.0	1890.1	1895.0	1898.0	1902.1	1904.0	1908.1	1916.2
40°	1958.3	1961.3	1967.5	1970.5	1974.5	1975.4	1979.5	1982.5	1985.5	1994.6	2003.6
42.5°	2043.8	2047.9	2050.9	2054.9	2059.9	2063.9	2066.9	2076.0	2078.0	2084.0	2101.1
45°	2147.4	2145.4	2146.3	2147.4	2149.4	2154.4	2163.4	2172.5	2178.5	2192.6	2206.7
47.5°	2276.1	2263.0	2257.9	2249.9	2251.9	2263.0	2265.0	2280.1	2292.1	2305.2	2322.3
50°	2471.1	2435.9	2414.8	2393.7	2391.7	2397.7	2405.7	2421.9	2435.9	2453.0	2477.1
52.5°	2798.9	2731.5	2689.2	2631.0	2614.8	2611.8	2605.8	2614.8	2618.9	2642.0	2687.3
55°	3462.4	3337.7	3257.2	3166.7	3082.3	3057.2	3008.9	3019.0	3008.9	3023.0	3090.4
57.5°	4847.7	4748.2	4669.7	4554.1	4409.3	4255.5	4217.3	4059.5	4090.7	4181.1	4122.8
60°	6859.4	6823.1	6766.8	6711.5	6513.5	6401.9	6219.9	6199.8	6072.1	6073.2	5989.7
62.5°	7985.3	8031.5	7997.3	7981.2	7970.3	7935.0	7844.6	7736.0	7573.2	7455.4	7282.6
65°	8307.0	8267.8	8230.6	8225.6	8222.6	8279.9	8293.0	8216.5	8068.7	7885.8	7686.7
67.5°	7932.0	7909.8	7911.9	7869.6	7895.9	7995.3	8064.7	8043.6	7907.9	7686.7	7433.4
70°	7039.3	6996.1	7040.3	7095.5	7134.8	7192.1	7261.5	7278.5	7154.9	6927.7	6669.3
72.5°	5270.9	5277.9	5320.2	5335.2	5493.1	5477.0	5539.4	5336.3	5246.8	5030.7	4897.9
75°	2773.7	2728.5	2846.1	2596.8	2494.2	2565.6	2365.5	2173.5	2213.7	2246.9	2007.7
77.5°	980.2	916.9	809.3	766.0	637.4	539.9	441.3	398.1	375.0	362.9	347.9
80°	703.7	723.8	701.8	649.4	551.9	442.4	348.8	275.4	236.3	215.1	201.0
82.5°	711.8	791.2	826.4	811.3	722.8	546.9	360.9	230.3	170.9	142.8	132.7
85°	382.1	418.2	402.2	338.8	304.7	182.0	124.7	83.4	70.4	64.4	59.3
87.5°	15.1	12.0	10.1	10.1	11.1	12.0	10.1	11.1	10.1	10.1	10.1
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9
2.5°	926.9	926.9	926.9	925.9	923.9	918.9	913.9	909.8	906.8	903.8	899.8
5°	945.0	943.0	943.0	943.0	934.9	926.9	919.9	912.8	906.8	901.8	897.7
7.5°	975.1	974.2	970.2	969.1	963.1	950.1	942.0	929.9	922.9	915.9	913.9
10°	1011.4	1010.4	1009.3	1008.3	1000.3	987.3	977.2	966.1	956.1	946.0	936.0
12.5°	1053.6	1052.5	1051.6	1048.6	1045.5	1038.5	1027.5	1015.3	1003.3	982.2	971.2
15°	1105.9	1107.9	1105.9	1104.9	1102.8	1103.8	1096.8	1079.7	1060.6	1033.5	1010.4
17.5°	1175.2	1173.3	1172.2	1176.3	1175.2	1180.2	1178.2	1156.2	1126.9	1083.7	1043.5
20°	1251.6	1251.6	1255.6	1258.7	1267.7	1280.8	1274.7	1247.6	1194.3	1134.0	1081.8
22.5°	1343.1	1345.1	1349.1	1347.2	1361.2	1382.3	1384.4	1346.1	1276.8	1193.4	1119.9
25°	1438.7	1440.6	1436.6	1442.6	1465.8	1496.0	1502.0	1447.7	1356.2	1247.6	1152.1
27.5°	1529.1	1531.1	1531.1	1539.2	1561.2	1612.5	1618.5	1558.2	1436.6	1294.8	1175.2
30°	1617.6	1625.6	1627.7	1629.6	1662.8	1734.2	1747.3	1659.8	1506.9	1330.1	1191.3
32.5°	1729.1	1732.1	1736.2	1741.2	1779.4	1866.8	1866.8	1747.3	1552.2	1352.1	1194.3
35°	1848.8	1849.8	1858.9	1859.9	1914.1	2001.6	1984.6	1819.7	1584.4	1347.2	1172.2
37.5°	1921.1	1925.2	1934.2	1946.3	2003.6	2127.3	2088.1	1882.0	1590.5	1314.0	1122.0
40°	2010.7	2018.7	2027.8	2039.8	2125.3	2254.9	2175.5	1921.1	1565.3	1248.6	1046.5
42.5°	2107.2	2118.2	2132.3	2154.4	2256.0	2367.6	2241.9	1927.3	1508.0	1175.2	957.1
45°	2215.8	2235.9	2251.9	2278.0	2392.6	2465.1	2282.1	1892.0	1435.6	1078.8	861.6
47.5°	2341.5	2357.5	2385.6	2413.8	2528.4	2531.4	2286.1	1823.6	1337.1	982.2	760.0
50°	2496.3	2506.3	2548.5	2565.6	2673.2	2600.7	2257.0	1731.2	1233.6	873.7	647.5
52.5°	2702.3	2716.4	2770.7	2796.8	2873.3	2695.2	2215.8	1630.7	1114.9	752.0	531.8
55°	3109.4	3170.8	3209.0	3254.2	3303.5	2909.4	2197.6	1523.1	981.2	611.2	421.2
57.5°	4252.5	4232.4	4316.9	4419.4	4418.4	3399.0	2306.2	1430.6	823.3	467.5	323.7
60°	5955.5	5974.6	5931.4	5992.7	5797.7	4006.2	2455.0	1333.1	645.4	347.9	247.4
62.5°	7221.2	7110.7	7049.3	6977.0	6547.7	4072.5	2346.4	1133.0	469.5	244.2	190.1
65°	7520.8	7391.2	7259.5	7121.8	6474.3	3671.4	1925.2	831.4	303.6	167.9	150.8
67.5°	7225.3	7017.2	6849.3	6707.6	5932.4	3043.1	1407.5	510.7	173.9	135.8	128.7
70°	6459.2	6229.0	5957.5	5798.8	4995.4	2242.9	901.8	275.4	133.7	120.6	117.6
72.5°	4728.1	4539.1	4242.5	4060.5	3587.0	1363.2	503.6	154.8	124.7	115.6	111.6
75°	1841.8	1743.2	1619.6	1629.6	1454.7	603.2	228.2	133.7	121.7	113.6	109.5
77.5°	316.7	308.6	285.5	285.5	324.8	220.2	151.8	134.7	120.6	111.6	104.6
80°	190.1	186.0	176.9	174.9	168.9	154.8	145.8	136.7	118.7	105.6	96.5
82.5°	124.7	119.6	116.6	115.6	125.7	135.8	136.7	135.8	112.6	91.5	78.4
85°	53.3	53.3	53.3	54.3	72.3	109.5	112.6	120.6	92.5	71.4	56.3
87.5°	9.0	11.1	11.1	12.0	13.1	24.1	30.2	39.2	31.2	30.2	27.2
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°	923.9	923.9	923.9
2.5°	898.8	896.8	896.8
5°	895.8	893.8	894.7
7.5°	907.8	903.8	904.8
10°	929.9	925.9	923.9
12.5°	958.0	953.1	953.1
15°	987.3	975.1	974.2
17.5°	1011.4	996.3	994.3
20°	1038.5	1018.4	1015.3
22.5°	1063.6	1036.5	1032.4
25°	1081.8	1048.6	1043.5
27.5°	1089.7	1050.6	1046.5
30°	1095.9	1051.6	1045.5
32.5°	1089.7	1042.5	1037.5
35°	1056.6	1005.3	1002.3
37.5°	999.3	942.0	937.9
40°	923.9	863.5	853.5
42.5°	827.4	771.1	760.0
45°	733.9	669.5	664.6
47.5°	633.4	572.0	575.0
50°	527.8	472.5	471.5
52.5°	427.3	379.0	376.0
55°	336.8	302.6	299.6
57.5°	266.4	248.3	245.3
60°	217.1	208.1	205.1
62.5°	174.9	171.9	170.9
65°	145.8	145.8	145.8
67.5°	126.6	127.7	127.7
70°	116.6	117.6	116.6
72.5°	112.6	115.6	115.6
75°	109.5	111.6	107.6
77.5°	107.6	108.6	101.6
80°	106.5	105.6	92.5
82.5°	92.5	89.4	78.4
85°	84.5	64.4	54.3
87.5°	43.2	30.2	23.1
90°	0.0	0.0	0.0

(END OF REPORT)