

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: P181258

Luminaire Tested: **ICM-F04-LED-E1-T2-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181258
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-T2-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7943.1 lumens
Efficiency: N/A
Efficacy: 77.7 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

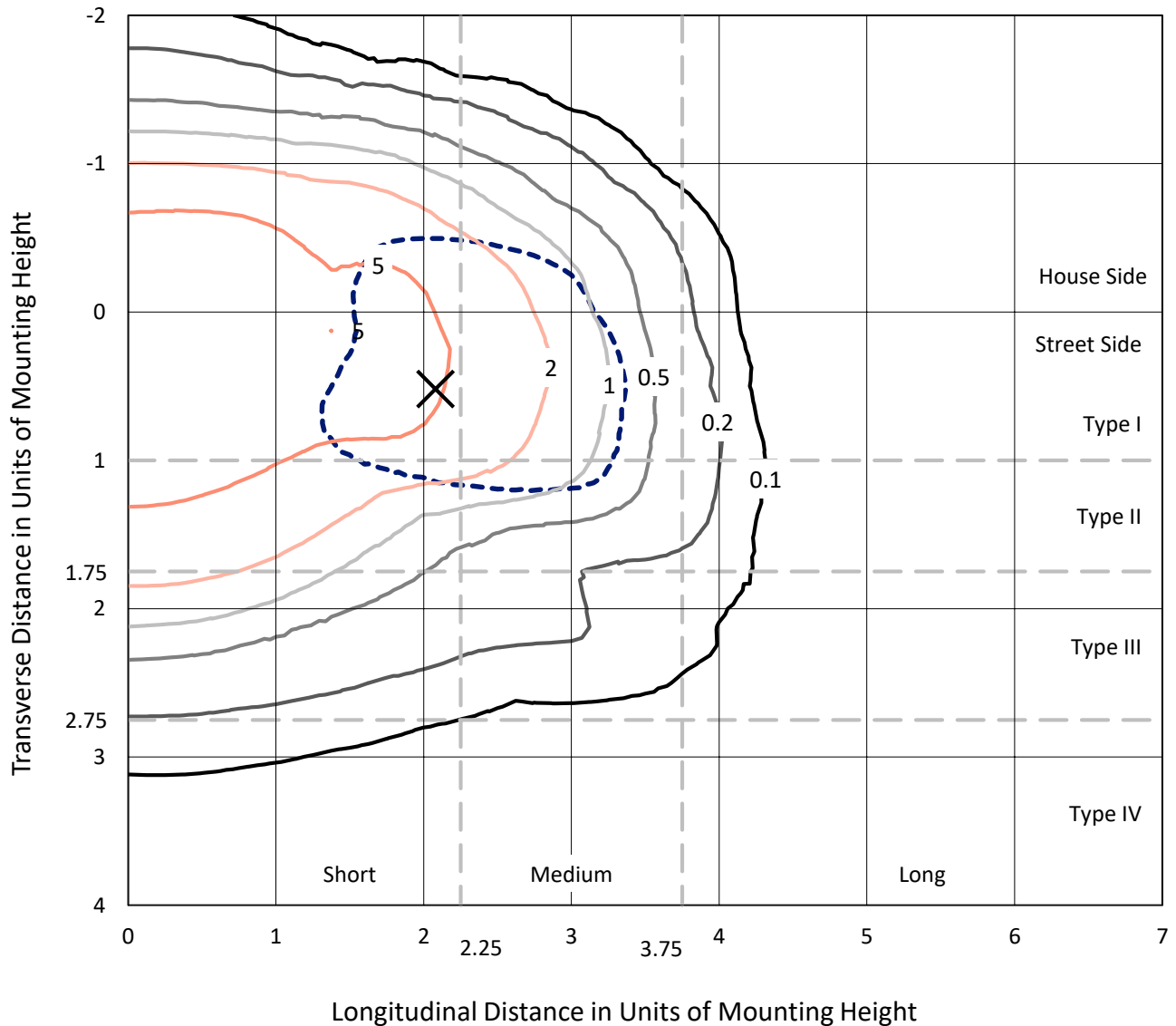


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

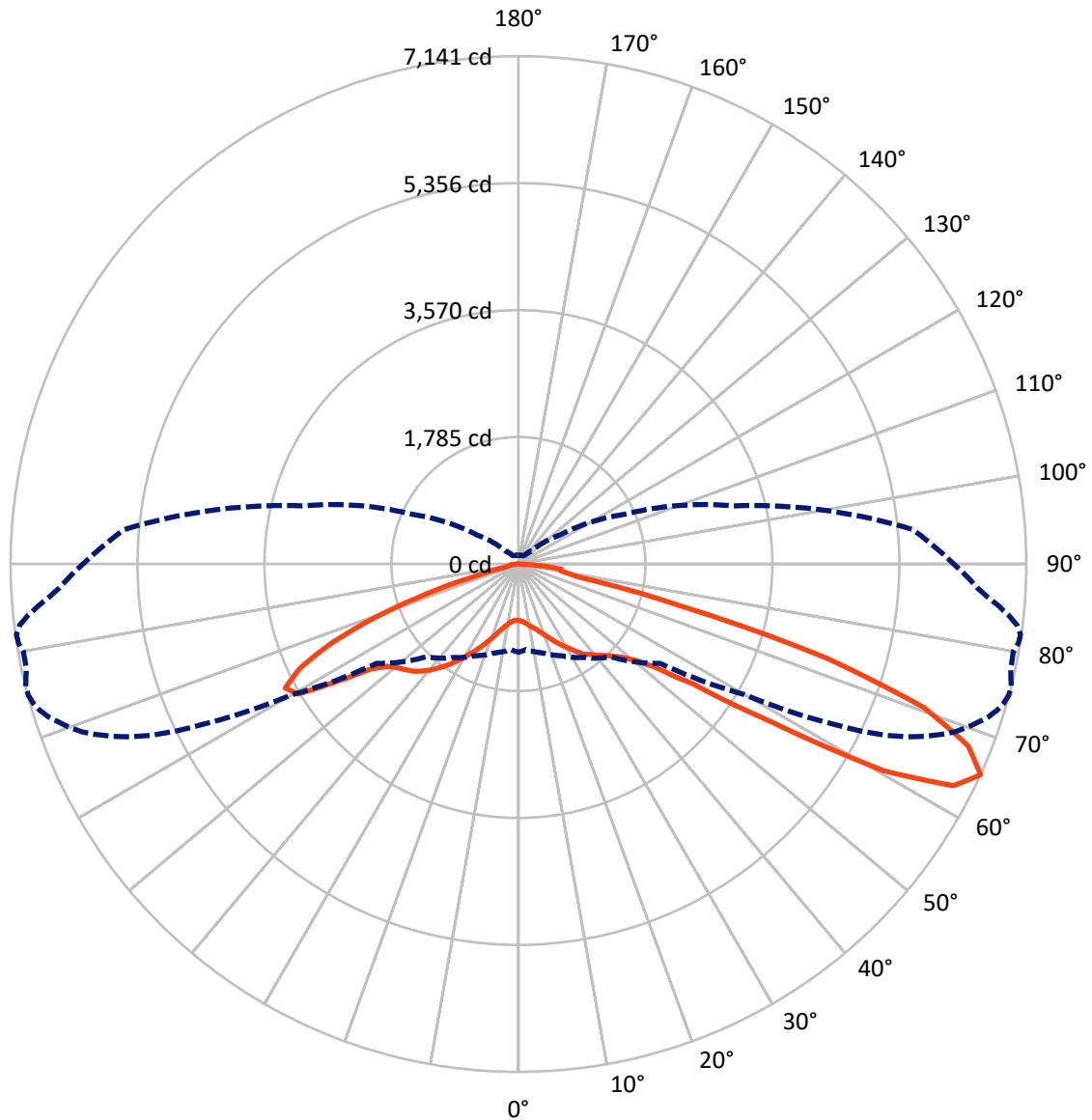


Based on 10 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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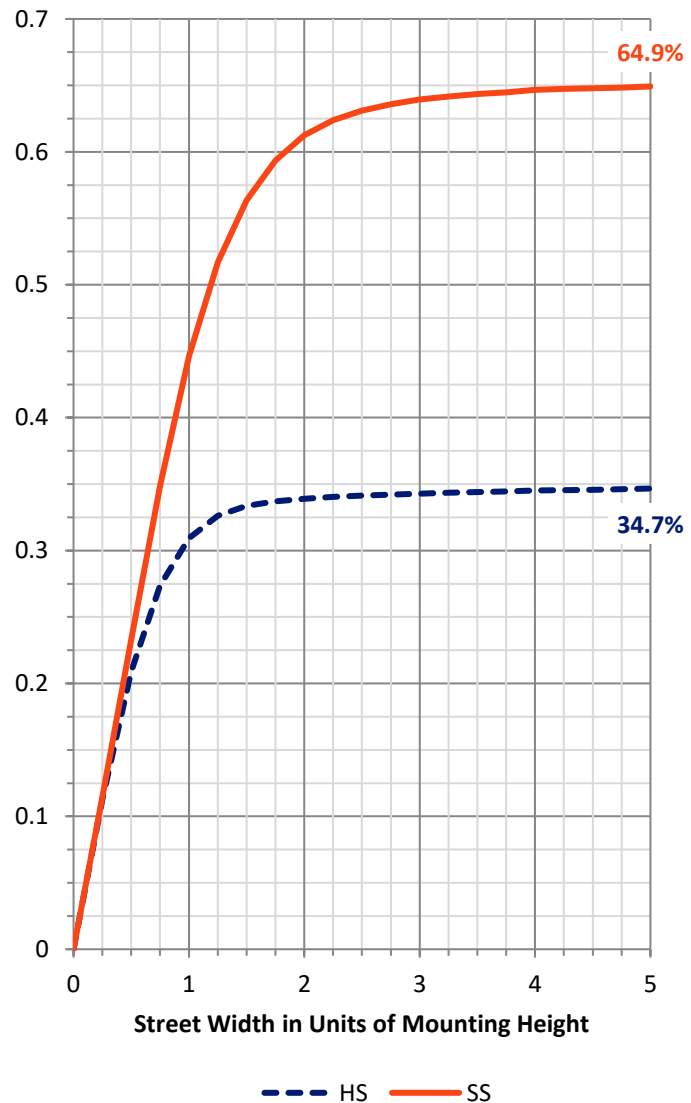
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2781.5	0.0	2781.5
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	5161.6	0.0	5161.6
	% Fixture	65.0	0.0	65.0
Total	Lumens	7943.1	0.0	7943.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	1.0
10°-20°	273.2	3.4
20°-30°	536.6	6.8
30°-40°	891.7	11.2
40°-50°	1310.2	16.5
50°-60°	1814.0	22.8
60°-70°	2165.2	27.3
70°-80°	765.7	9.6
80°-90°	107.0	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°	7943.1	100.0
0°-180°	7943.1	100.0

Coefficient of Utilization



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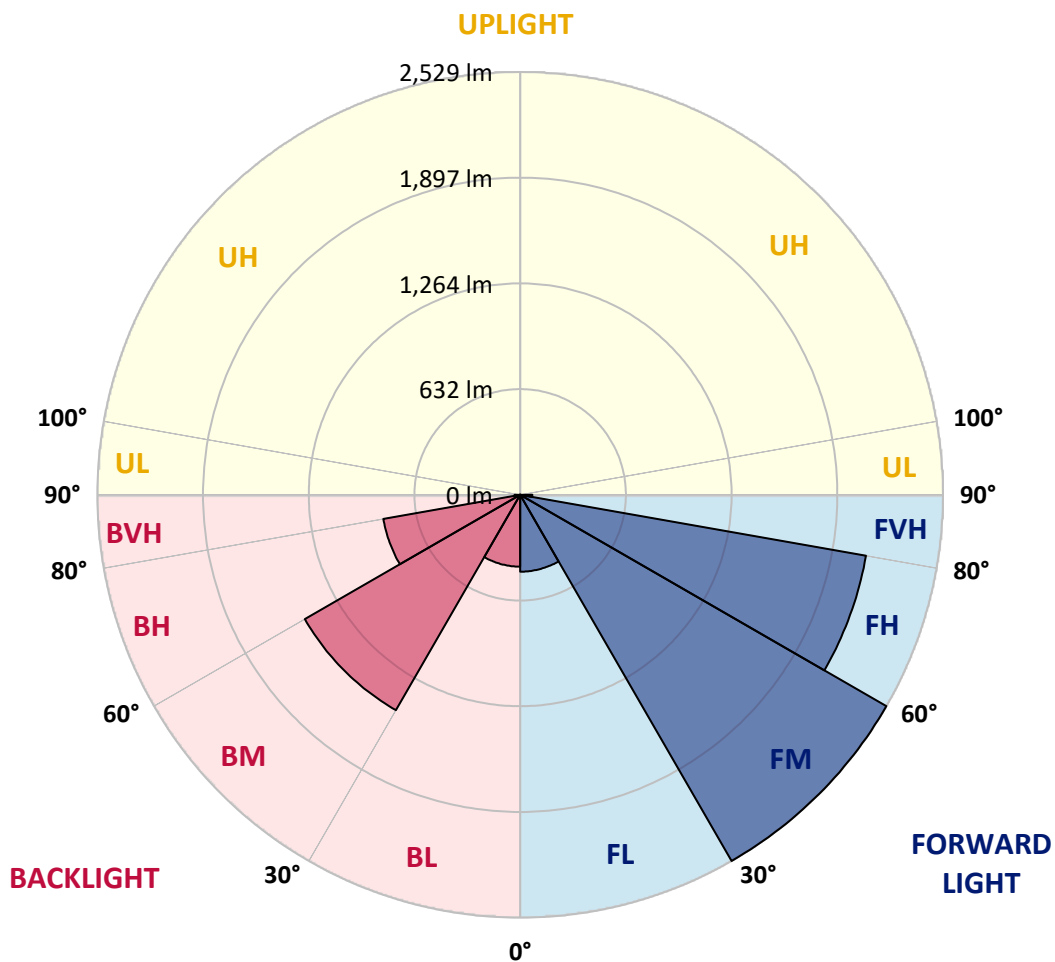
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	459.6	5.8			
FM	(30°-60°)	2528.8	31.8			
FH	(60°-80°)	2100.1	26.4			G2/5000
FVH	(80°-90°)	73.1	0.9			G1/100
BL	(0°-30°)	429.7	5.4	B1/500		
BM	(30°-60°)	1487.1	18.7	B2/2500		
BH	(60°-80°)	830.8	10.5	B2/1000		G2/1000
BVH	(80°-90°)	33.9	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°	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1
2.5°	828.7	829.6	827.9	827.0	824.4	820.1	816.7	813.2	813.2	813.2	810.6
5°	865.0	866.8	863.4	860.7	852.9	848.7	842.6	838.2	836.6	835.6	833.0
7.5°	910.8	908.3	903.1	901.3	895.3	885.8	874.5	865.9	865.9	865.0	865.9
10°	956.7	949.7	947.2	944.6	935.1	923.0	910.0	900.5	899.6	898.7	896.2
12.5°	1002.4	999.8	997.2	987.7	978.2	959.3	944.6	935.1	934.1	935.1	931.5
15°	1062.9	1056.8	1054.3	1037.9	1017.1	996.4	978.2	969.6	967.0	967.9	965.3
17.5°	1109.6	1109.6	1103.5	1085.4	1058.6	1030.1	1011.1	1005.9	1005.0	1005.0	1005.9
20°	1146.8	1145.9	1139.8	1125.1	1093.2	1064.7	1055.2	1053.4	1052.6	1052.6	1055.2
22.5°	1167.5	1165.8	1163.2	1146.8	1121.7	1102.7	1103.5	1108.8	1110.4	1112.2	1115.6
25°	1177.9	1175.3	1174.4	1163.2	1145.0	1142.4	1158.0	1171.8	1175.3	1178.7	1183.1
27.5°	1195.2	1190.8	1192.6	1188.2	1183.9	1191.7	1223.6	1238.3	1240.9	1245.3	1247.8
30°	1242.7	1240.9	1247.8	1249.6	1253.0	1264.3	1293.7	1307.4	1313.6	1313.6	1325.7
32.5°	1333.4	1334.2	1336.0	1354.1	1360.2	1368.0	1383.5	1394.8	1395.6	1396.5	1407.7
35°	1455.3	1460.5	1475.2	1490.7	1505.4	1504.6	1495.0	1501.0	1496.8	1502.0	1502.8
37.5°	1609.1	1602.1	1623.8	1659.2	1681.7	1675.6	1633.3	1605.6	1613.4	1610.0	1607.4
40°	1727.5	1735.3	1776.8	1823.4	1840.7	1859.7	1804.4	1756.8	1750.0	1737.0	1729.2
42.5°	1890.8	1891.6	1925.4	1959.9	2010.1	2051.5	2016.1	1947.8	1927.1	1911.5	1877.9
45°	2042.1	2039.5	2067.1	2109.4	2169.0	2228.7	2241.7	2167.4	2159.5	2131.9	2087.8
47.5°	2143.2	2139.7	2158.7	2214.0	2310.8	2408.5	2462.1	2439.5	2424.9	2413.6	2344.5
50°	2211.5	2204.5	2226.2	2284.9	2392.9	2543.3	2683.3	2702.2	2696.2	2696.2	2652.1
52.5°	2262.4	2262.4	2278.0	2325.5	2435.3	2622.8	2873.4	2969.3	2977.0	2985.7	2983.1
55°	2233.9	2238.2	2277.1	2346.2	2462.1	2678.1	3030.6	3240.7	3283.8	3320.1	3361.6
57.5°	2136.2	2150.9	2202.8	2316.0	2468.9	2719.6	3205.2	3620.9	3742.7	3848.2	4012.4
60°	1993.7	2012.7	2087.8	2232.2	2418.0	2652.1	3266.5	3942.3	4135.9	4365.8	4794.4
62.5°	1749.1	1768.1	1841.6	1985.9	2144.9	2393.8	3012.5	3989.9	4299.3	4625.1	5273.1
65°	1239.3	1208.9	1293.7	1423.3	1605.6	1846.7	2434.3	3671.0	4116.0	4557.6	5357.9
67.5°	690.5	687.9	739.7	836.6	1011.1	1270.3	1677.4	2815.5	3225.1	3725.4	4708.0
70°	476.2	481.3	514.1	618.8	763.1	986.9	1195.2	1768.1	2062.8	2402.4	3368.6
72.5°	334.4	345.7	363.8	426.0	573.8	831.4	1221.0	1056.8	1203.8	1435.4	2025.6
75°	196.2	203.9	216.9	247.2	326.7	555.6	1264.3	929.0	929.0	983.4	1225.4
77.5°	121.0	121.0	128.7	140.8	173.7	272.2	900.5	1043.9	1014.5	983.4	986.1
80°	62.2	66.5	77.8	83.8	96.7	124.5	404.5	974.0	1068.1	1131.2	1087.2
82.5°	28.6	32.0	47.5	51.0	56.2	65.7	139.2	554.0	742.3	977.4	1221.0
85°	14.7	14.7	25.0	31.1	33.7	30.2	51.0	223.8	338.8	516.7	808.8
87.5°	2.6	2.6	4.3	5.2	7.8	6.9	8.7	12.9	21.6	23.3	24.2
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°	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1
2.5°	809.8	810.6	809.8	808.8	807.2	807.2	807.2	806.2	806.2	806.2	805.4
5°	833.0	829.6	830.5	828.7	827.9	827.0	827.9	826.1	824.4	825.3	824.4
7.5°	862.4	860.7	857.2	857.2	856.4	854.7	854.7	852.1	851.2	849.5	848.7
10°	895.3	891.0	892.7	891.0	891.8	888.4	886.6	884.9	883.2	883.2	884.0
12.5°	929.0	928.1	925.5	923.8	923.8	921.2	922.1	921.2	918.6	917.8	915.2
15°	963.5	963.5	960.9	961.9	960.9	959.3	957.5	957.5	955.8	954.1	954.9
17.5°	1004.2	1004.2	1004.2	1004.2	1005.0	1002.4	1003.3	1001.6	999.8	1003.3	1003.3
20°	1056.8	1060.4	1060.4	1059.4	1063.8	1061.2	1060.4	1064.7	1060.4	1066.4	1065.5
22.5°	1117.4	1120.8	1120.8	1124.3	1125.1	1127.7	1129.5	1127.7	1131.2	1134.7	1134.7
25°	1184.8	1188.2	1190.8	1196.0	1198.6	1196.8	1197.8	1202.1	1203.8	1207.3	1210.7
27.5°	1255.6	1256.5	1260.0	1266.1	1270.3	1272.1	1272.9	1279.8	1280.7	1282.4	1285.9
30°	1324.8	1333.4	1331.7	1339.5	1342.1	1344.7	1349.9	1352.5	1358.5	1362.0	1362.0
32.5°	1406.1	1404.3	1411.2	1417.2	1421.6	1425.9	1430.2	1433.7	1437.1	1438.9	1447.5
35°	1507.1	1510.6	1510.6	1511.5	1521.8	1522.7	1526.1	1533.9	1536.5	1541.7	1545.1
37.5°	1607.4	1601.3	1600.5	1600.5	1597.0	1599.5	1600.5	1601.3	1604.8	1605.6	1609.1
40°	1719.7	1711.9	1705.0	1700.7	1693.8	1684.3	1682.5	1678.2	1680.8	1679.9	1680.8
42.5°	1873.5	1851.9	1835.5	1823.4	1809.6	1799.2	1791.5	1780.2	1772.4	1762.9	1761.2
45°	2069.7	2029.0	2001.4	1981.6	1961.7	1933.1	1916.8	1899.5	1883.9	1868.4	1855.4
47.5°	2327.2	2284.0	2239.9	2203.6	2172.6	2126.7	2080.1	2054.2	2023.9	1997.1	1978.1
50°	2630.5	2578.7	2558.0	2507.0	2468.1	2399.0	2341.0	2298.7	2238.2	2197.6	2162.2
52.5°	2940.8	2927.8	2916.6	2873.4	2827.6	2787.8	2736.9	2662.5	2601.1	2554.5	2481.9
55°	3363.4	3369.4	3365.1	3341.8	3325.3	3287.3	3266.5	3201.8	3174.1	3106.7	3030.6
57.5°	4074.5	4123.0	4184.3	4208.5	4241.3	4210.3	4246.5	4290.6	4180.9	4218.9	4150.6
60°	4982.8	5205.0	5337.1	5499.6	5605.9	5754.5	5781.3	5820.2	5809.0	5830.5	5874.6
62.5°	5537.6	5801.2	6054.4	6238.5	6435.5	6544.4	6675.8	6767.3	6862.4	6926.4	6908.2
65°	5701.0	5972.3	6202.2	6403.5	6579.9	6712.9	6834.7	6949.7	7037.0	7098.3	7134.6
67.5°	5101.2	5455.6	5697.5	5933.4	6160.7	6300.7	6402.6	6514.2	6642.0	6748.3	6769.1
70°	3838.6	4370.2	4713.2	4995.8	5262.8	5451.2	5593.8	5697.5	5796.9	5873.0	5955.9
72.5°	2400.7	2865.6	3258.0	3624.3	3907.8	4167.0	4287.2	4517.1	4486.8	4544.7	4606.9
75°	1438.9	1665.2	1881.3	2139.7	2288.3	2504.4	2543.3	2581.3	2561.4	2496.6	2544.9
77.5°	999.8	1037.0	1035.3	1020.6	1005.0	967.0	917.8	891.0	872.8	846.9	857.2
80°	1005.9	925.5	802.8	674.9	557.4	479.6	448.5	448.5	480.5	526.2	572.1
82.5°	1202.1	1116.5	995.5	833.0	660.2	537.5	455.4	422.6	428.7	475.3	534.0
85°	810.6	829.6	727.6	665.4	527.2	410.5	343.9	279.2	247.2	254.9	288.7
87.5°	29.4	35.4	12.9	17.3	12.1	10.3	10.3	11.3	7.8	9.5	8.7
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°	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1
2.5°	804.6	803.7	803.7	802.0	802.0	801.1	801.1	800.2	799.4	799.4	798.5
5°	823.5	822.7	820.9	820.1	818.3	818.3	817.5	815.8	815.8	814.1	813.2
7.5°	850.3	848.7	846.9	846.1	845.1	842.6	842.6	840.8	840.8	839.1	838.2
10°	882.3	880.6	878.9	879.7	877.1	876.3	874.5	874.5	871.9	871.1	871.1
12.5°	916.8	916.0	916.0	913.4	912.6	911.7	908.3	908.3	908.3	906.5	907.4
15°	954.1	954.9	952.3	954.9	954.1	951.4	951.4	951.4	948.0	952.3	948.8
17.5°	1004.2	1006.8	1005.0	1005.9	1004.2	1004.2	1005.0	1004.2	1005.9	1005.9	1011.1
20°	1066.4	1067.3	1071.5	1069.9	1069.9	1068.9	1070.7	1071.5	1075.1	1073.3	1076.8
22.5°	1134.7	1139.0	1139.8	1143.3	1143.3	1142.4	1144.2	1147.6	1149.3	1151.9	1151.1
25°	1212.5	1215.0	1218.5	1214.1	1221.0	1221.0	1222.8	1227.2	1228.0	1228.0	1234.1
27.5°	1285.0	1291.9	1292.8	1297.1	1294.5	1296.3	1302.3	1304.9	1308.4	1308.4	1310.1
30°	1367.1	1369.7	1371.5	1376.7	1375.7	1376.7	1377.5	1381.8	1381.8	1386.1	1390.4
32.5°	1451.8	1453.5	1455.3	1460.5	1462.1	1465.7	1463.9	1467.4	1471.7	1472.6	1475.2
35°	1552.9	1554.6	1556.4	1564.2	1565.0	1571.1	1572.8	1571.1	1578.0	1573.7	1578.0
37.5°	1611.6	1619.5	1621.2	1626.3	1624.7	1628.9	1631.5	1635.0	1636.8	1640.2	1647.1
40°	1683.5	1686.0	1691.2	1693.8	1697.2	1698.1	1701.6	1704.2	1706.7	1714.5	1722.3
42.5°	1756.8	1760.3	1762.9	1766.3	1770.7	1774.2	1776.8	1784.5	1786.2	1791.5	1806.2
45°	1845.9	1844.1	1845.0	1845.9	1847.6	1851.9	1859.7	1867.5	1872.7	1884.8	1896.8
47.5°	1956.5	1945.2	1940.9	1934.1	1935.7	1945.2	1947.0	1959.9	1970.3	1981.6	1996.2
50°	2124.1	2093.9	2075.7	2057.6	2055.8	2061.0	2068.0	2081.8	2093.9	2108.6	2129.3
52.5°	2405.9	2347.9	2311.6	2261.5	2247.7	2245.1	2239.9	2247.7	2251.2	2271.1	2310.0
55°	2976.2	2869.0	2799.9	2722.2	2649.6	2627.9	2586.4	2595.1	2586.4	2598.5	2656.5
57.5°	4167.0	4081.5	4014.1	3914.7	3790.3	3658.1	3625.2	3489.5	3516.3	3594.1	3543.9
60°	5896.2	5865.2	5816.8	5769.2	5599.0	5503.0	5346.6	5329.3	5219.6	5220.5	5148.8
62.5°	6864.1	6903.9	6874.5	6860.7	6851.2	6820.9	6743.1	6649.8	6509.8	6408.7	6260.0
65°	7140.7	7106.9	7075.0	7070.6	7068.0	7117.3	7128.6	7062.9	6935.9	6778.6	6607.5
67.5°	6818.4	6799.3	6801.1	6764.8	6787.2	6872.8	6932.4	6914.3	6797.6	6607.5	6389.7
70°	6050.9	6013.8	6051.9	6099.3	6133.1	6182.3	6241.9	6256.6	6150.4	5955.0	5733.0
72.5°	4530.8	4536.9	4573.2	4586.2	4721.9	4708.0	4761.6	4587.0	4510.2	4324.3	4210.3
75°	2384.3	2345.4	2446.4	2232.2	2144.0	2205.4	2033.4	1868.4	1902.9	1931.5	1725.8
77.5°	842.6	788.1	695.6	658.5	547.9	464.1	379.4	342.2	322.3	312.0	299.0
80°	604.9	622.2	603.2	558.2	474.4	380.3	299.9	236.7	203.1	184.9	172.8
82.5°	611.8	680.1	710.3	697.4	621.3	470.1	310.2	197.9	146.9	122.7	114.0
85°	328.4	359.5	345.7	291.3	261.9	156.4	107.2	71.7	60.5	55.3	51.0
87.5°	12.9	10.3	8.7	8.7	9.5	10.3	8.7	9.5	8.7	8.7	8.7
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°	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1
2.5°	796.7	796.7	796.7	795.9	794.1	789.9	785.5	782.1	779.4	776.9	773.4
5°	812.3	810.6	810.6	810.6	803.7	796.7	790.7	784.7	779.4	775.2	771.7
7.5°	838.2	837.4	834.0	833.0	827.9	816.7	809.8	799.4	793.3	787.3	785.5
10°	869.4	868.5	867.6	866.8	859.8	848.7	840.0	830.5	821.9	813.2	804.6
12.5°	905.7	904.7	903.9	901.3	898.7	892.7	883.2	872.8	862.4	844.3	834.8
15°	950.6	952.3	950.6	949.7	948.0	948.8	942.8	928.1	911.7	888.4	868.5
17.5°	1010.2	1008.5	1007.6	1011.1	1010.2	1014.5	1012.8	993.8	968.8	931.5	897.0
20°	1075.9	1075.9	1079.4	1082.0	1089.7	1100.9	1095.7	1072.5	1026.6	974.8	929.9
22.5°	1154.5	1156.3	1159.7	1158.0	1170.1	1188.2	1190.0	1157.1	1097.5	1025.8	962.7
25°	1236.7	1238.3	1234.9	1240.1	1260.0	1285.9	1291.1	1244.4	1165.8	1072.5	990.3
27.5°	1314.4	1316.1	1316.1	1323.1	1342.1	1386.1	1391.4	1339.5	1234.9	1113.0	1010.2
30°	1390.4	1397.4	1399.1	1400.8	1429.3	1490.7	1502.0	1426.7	1295.4	1143.3	1024.0
32.5°	1486.3	1488.9	1492.4	1496.8	1529.6	1604.8	1604.8	1502.0	1334.2	1162.3	1026.6
35°	1589.2	1590.1	1597.9	1598.7	1645.4	1720.6	1705.9	1564.2	1362.0	1158.0	1007.6
37.5°	1651.5	1654.9	1662.7	1673.0	1722.3	1828.6	1794.9	1617.8	1367.1	1129.5	964.4
40°	1728.4	1735.3	1743.1	1753.4	1826.9	1938.3	1870.1	1651.5	1345.5	1073.3	899.6
42.5°	1811.3	1820.8	1832.9	1851.9	1939.2	2035.1	1927.1	1656.7	1296.3	1010.2	822.7
45°	1904.7	1922.0	1935.7	1958.2	2056.8	2119.0	1961.7	1626.3	1234.1	927.3	740.6
47.5°	2012.7	2026.5	2050.7	2074.9	2173.4	2176.0	1965.1	1567.6	1149.3	844.3	653.3
50°	2145.8	2154.3	2190.7	2205.4	2297.9	2235.6	1940.1	1488.1	1060.4	751.0	556.6
52.5°	2322.9	2335.0	2381.7	2404.1	2469.8	2316.9	1904.7	1401.7	958.3	646.4	457.1
55°	2672.9	2725.6	2758.4	2797.3	2839.6	2500.9	1889.1	1309.2	843.4	525.4	362.0
57.5°	3655.5	3638.2	3710.7	3798.9	3798.1	2921.8	1982.4	1229.7	707.7	401.9	278.2
60°	5119.4	5135.8	5098.6	5151.4	4983.7	3443.7	2110.3	1145.9	554.8	299.0	212.6
62.5°	6207.4	6112.3	6059.6	5997.3	5628.4	3500.8	2016.9	974.0	403.5	210.0	163.3
65°	6464.9	6353.4	6240.2	6121.8	5565.2	3155.9	1654.9	714.7	261.0	144.3	129.6
67.5°	6210.8	6031.9	5887.6	5765.8	5099.5	2615.8	1209.9	439.0	149.5	116.7	110.6
70°	5552.3	5354.5	5121.1	4984.6	4294.1	1928.0	775.2	236.7	115.0	103.7	101.1
72.5°	4064.2	3901.7	3646.8	3490.4	3083.4	1171.8	432.9	133.1	107.2	99.3	95.9
75°	1583.2	1498.5	1392.2	1400.8	1250.4	518.5	196.2	115.0	104.6	97.7	94.2
77.5°	272.2	265.3	245.4	245.4	279.2	189.2	130.5	115.8	103.7	95.9	89.9
80°	163.3	159.9	152.1	150.3	145.2	133.1	125.3	117.5	102.0	90.7	83.0
82.5°	107.2	102.8	100.3	99.3	108.0	116.7	117.5	116.7	96.7	78.6	67.4
85°	45.8	45.8	45.8	46.7	62.2	94.2	96.7	103.7	79.5	61.4	48.4
87.5°	7.8	9.5	9.5	10.3	11.3	20.7	26.0	33.7	26.8	26.0	23.3
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°	794.1	794.1	794.1
2.5°	772.6	770.9	770.9
5°	770.0	768.3	769.1
7.5°	780.4	776.9	777.8
10°	799.4	795.9	794.1
12.5°	823.5	819.3	819.3
15°	848.7	838.2	837.4
17.5°	869.4	856.4	854.7
20°	892.7	875.4	872.8
22.5°	914.3	891.0	887.5
25°	929.9	901.3	897.0
27.5°	936.7	903.1	899.6
30°	942.0	903.9	898.7
32.5°	936.7	896.2	891.8
35°	908.3	864.2	861.6
37.5°	859.0	809.8	806.2
40°	794.1	742.3	733.7
42.5°	711.3	662.8	653.3
45°	630.9	575.5	571.3
47.5°	544.5	491.7	494.3
50°	453.7	406.1	405.3
52.5°	367.3	325.8	323.2
55°	289.5	260.1	257.5
57.5°	229.0	213.5	210.9
60°	186.7	178.9	176.3
62.5°	150.3	147.8	146.9
65°	125.3	125.3	125.3
67.5°	108.9	109.8	109.8
70°	100.3	101.1	100.3
72.5°	96.7	99.3	99.3
75°	94.2	95.9	92.5
77.5°	92.5	93.3	87.3
80°	91.6	90.7	79.5
82.5°	79.5	76.9	67.4
85°	72.6	55.3	46.7
87.5°	37.1	26.0	19.9
90°	0.0	0.0	0.0

(END OF REPORT)