

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: P180883

Luminaire Tested: **ICM-F03-LED-E1-SL4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180883
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)
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-SL4
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6805.7 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

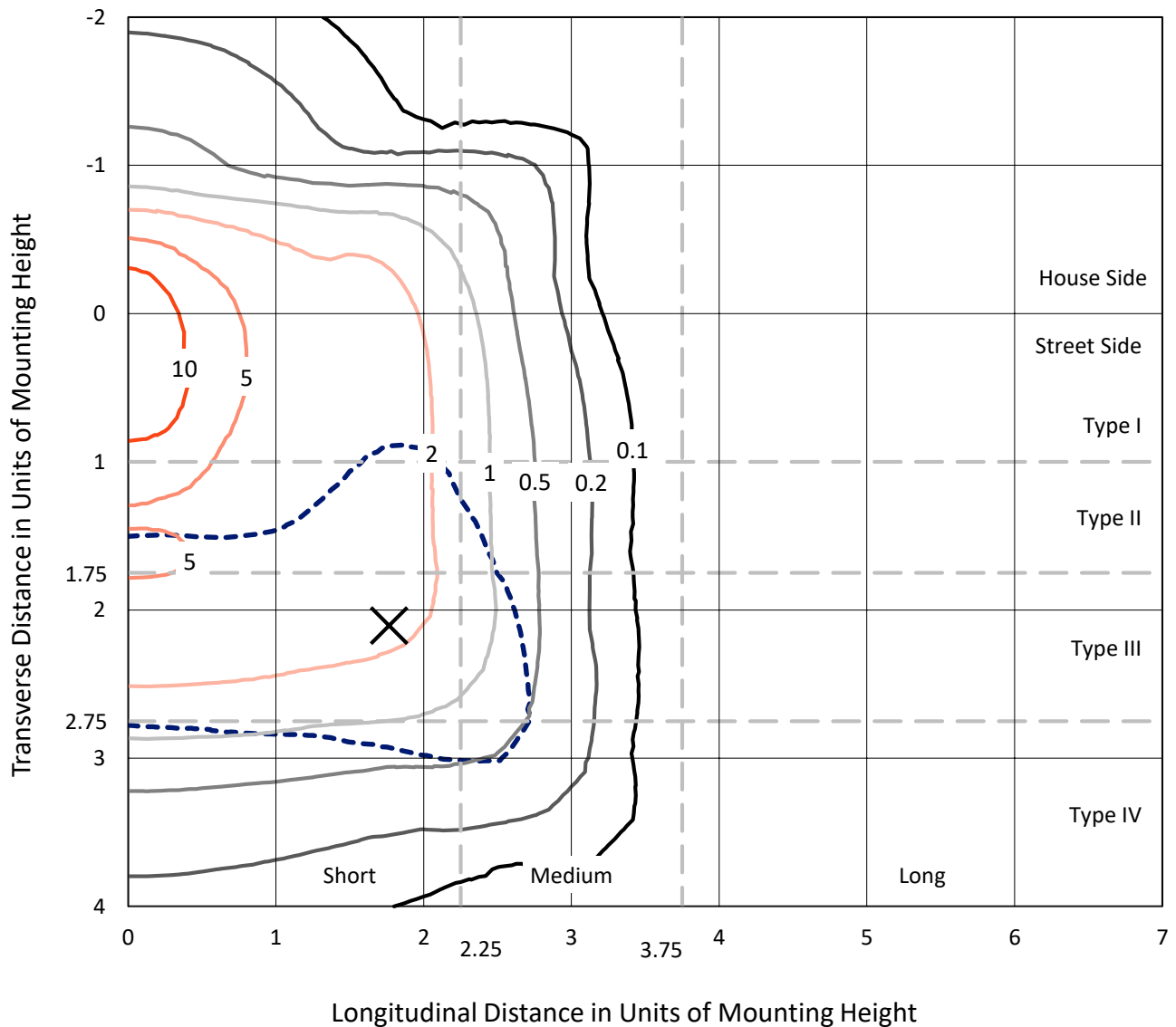
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

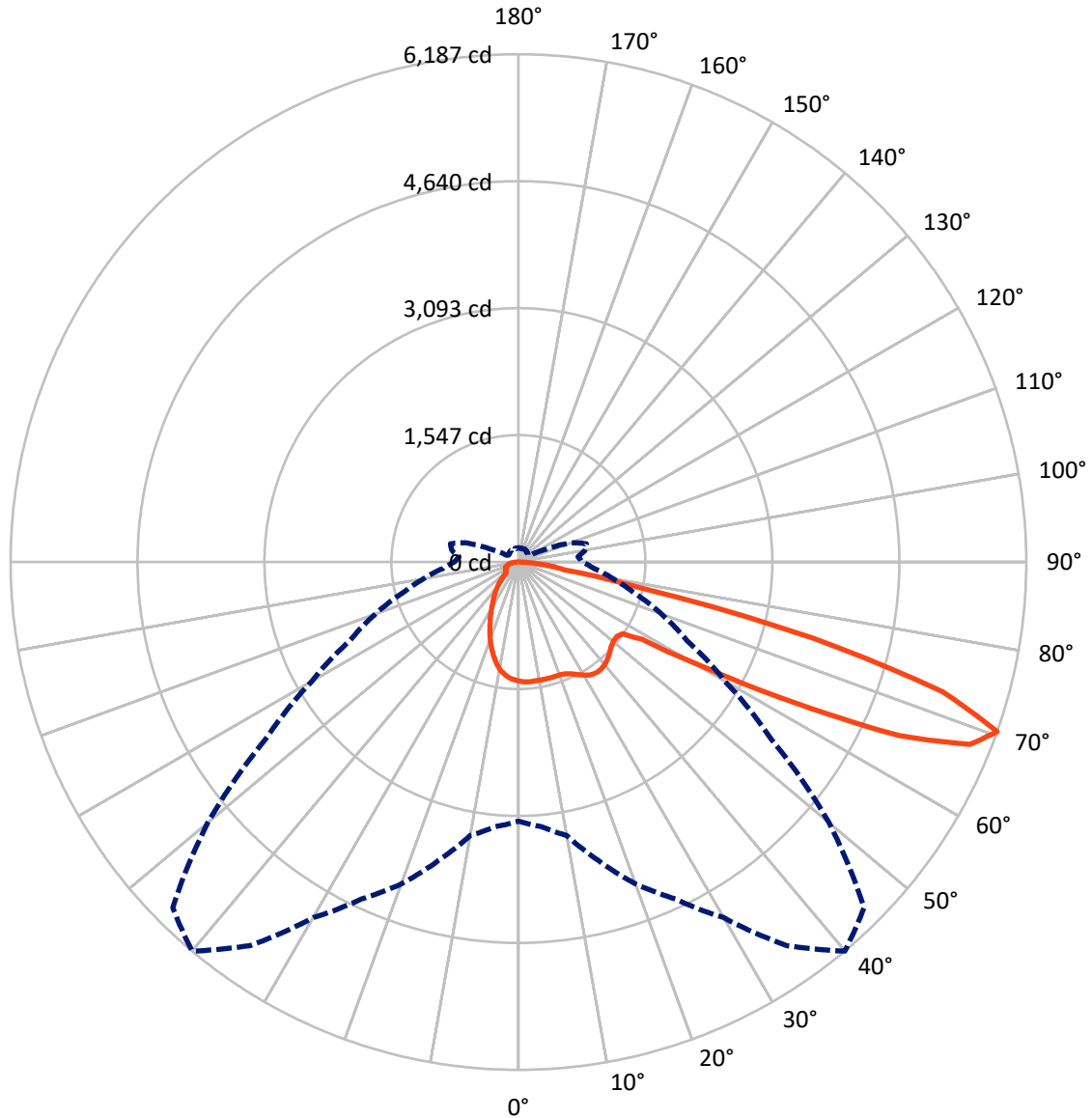
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.6 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1412.8	0.0	1412.8
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	5392.9	0.0	5392.9
	% Fixture	79.2	0.0	79.2
Total	Lumens	6805.7	0.0	6805.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	2.0
10°-20°	371.4	5.5
20°-30°	549.8	8.1
30°-40°	694.8	10.2
40°-50°	785.8	11.5
50°-60°	1118.2	16.4
60°-70°	2082.5	30.6
70°-80°	954.4	14.0
80°-90°	113.3	1.7
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°	6805.7	100.0
0°-180°	6805.7	100.0



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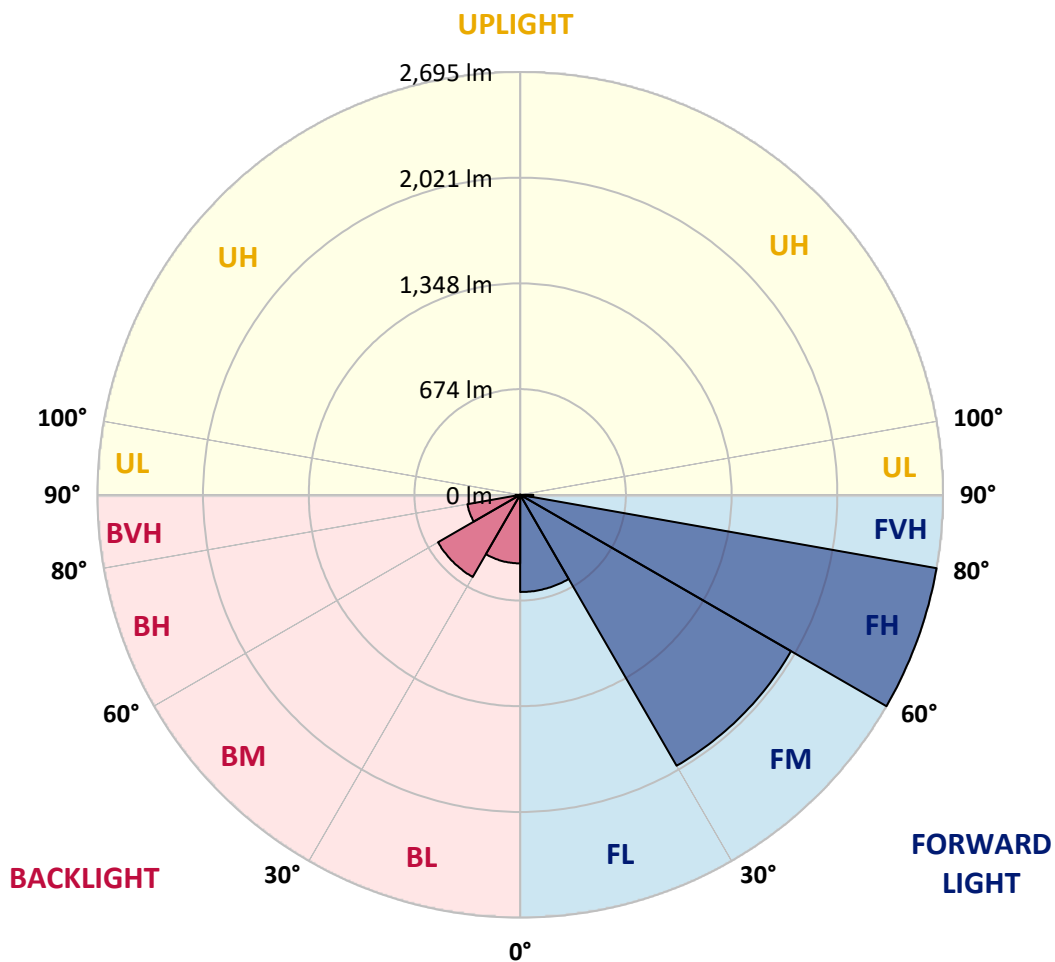
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	619.7	9.1			
FM	(30°-60°)	1993.8	29.3			
FH	(60°-80°)	2695.3	39.6			G2/5000
FVH	(80°-90°)	84.0	1.2			G1/100
BL	(0°-30°)	437.1	6.4	B1/500		
BM	(30°-60°)	604.9	8.9	B1/1000		
BH	(60°-80°)	341.5	5.0	B1/500		G1/500
BVH	(80°-90°)	29.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1452.2	1452.2	1452.2	1452.2	1452.2	1452.2	1452.2	1452.2	1452.2	1452.2	1452.2
2.5°	1474.4	1478.2	1473.7	1472.9	1472.9	1472.1	1467.5	1466.8	1460.6	1461.4	1462.9
5°	1485.2	1486.7	1483.6	1482.9	1481.3	1478.2	1474.4	1469.9	1465.2	1460.6	1456.8
7.5°	1495.9	1494.4	1492.1	1492.1	1489.8	1485.2	1477.5	1471.4	1461.4	1456.0	1449.1
10°	1511.3	1509.0	1506.0	1504.4	1500.6	1493.6	1482.9	1474.4	1462.1	1451.4	1439.9
12.5°	1525.9	1525.1	1520.5	1518.2	1512.1	1505.1	1492.1	1479.1	1462.9	1446.1	1430.7
15°	1552.0	1548.9	1544.3	1539.7	1529.7	1520.5	1500.6	1485.2	1462.1	1439.9	1416.1
17.5°	1597.3	1591.9	1587.4	1577.3	1565.0	1548.9	1519.7	1493.6	1462.1	1429.9	1403.0
20°	1680.2	1668.8	1662.6	1649.5	1628.0	1598.8	1553.5	1511.3	1464.5	1423.0	1386.9
22.5°	1774.0	1766.2	1757.8	1749.3	1715.5	1673.3	1611.9	1548.9	1478.2	1419.9	1373.9
25°	1879.2	1869.1	1864.6	1850.0	1818.4	1770.1	1686.4	1598.8	1509.8	1432.2	1373.9
27.5°	1972.8	1969.8	1968.9	1952.1	1922.2	1865.3	1766.2	1661.0	1552.8	1457.5	1385.3
30°	2058.1	2055.0	2053.5	2044.2	2009.7	1942.2	1834.6	1716.3	1599.6	1492.8	1406.9
32.5°	2148.7	2138.7	2134.1	2116.4	2077.2	1998.2	1875.3	1752.4	1636.5	1527.5	1430.7
35°	2222.4	2214.0	2204.8	2179.4	2124.1	2030.4	1892.9	1764.8	1651.1	1546.6	1443.0
37.5°	2276.2	2267.7	2254.6	2222.4	2154.1	2041.1	1892.2	1760.8	1645.7	1543.5	1445.2
40°	2299.9	2291.5	2277.7	2237.0	2159.5	2035.0	1877.6	1743.2	1629.6	1527.5	1436.0
42.5°	2290.7	2284.6	2266.9	2227.7	2142.5	2007.4	1848.4	1710.2	1598.8	1501.3	1415.3
45°	2255.5	2250.8	2234.0	2192.5	2104.1	1962.8	1805.4	1668.8	1562.0	1469.0	1387.6
47.5°	2202.4	2200.9	2184.0	2143.3	2055.7	1918.3	1760.8	1628.0	1525.1	1437.6	1364.7
50°	2144.1	2136.4	2127.9	2090.3	2010.4	1879.9	1728.7	1602.7	1504.4	1426.1	1354.6
52.5°	2107.2	2104.9	2097.2	2063.5	1986.6	1857.6	1714.1	1593.5	1502.9	1423.7	1349.2
55°	2434.3	2439.7	2369.0	2222.4	2093.4	1919.1	1757.8	1640.3	1540.5	1460.6	1406.1
57.5°	3600.9	3577.0	3455.7	3164.7	2836.0	2402.1	2089.6	1899.8	1776.2	1790.1	1817.7
60°	4195.2	4190.6	4168.3	4055.5	3836.6	3506.3	3140.1	2720.0	2586.4	2601.0	2611.7
62.5°	4461.0	4467.8	4484.8	4442.5	4384.9	4289.0	4106.2	3937.2	3758.3	3691.5	3512.6
65°	4583.8	4596.1	4634.4	4658.3	4680.6	4697.4	4769.6	4967.8	5098.4	4854.1	4285.9
67.5°	4329.6	4388.8	4515.5	4639.1	4749.7	4907.1	5151.3	5611.3	5931.6	5631.3	4807.3
70°	3156.2	3236.9	3382.0	3764.4	4173.0	4530.1	5003.1	5703.5	6186.5	5954.5	4936.3
72.5°	1979.0	2001.2	2065.8	2206.2	2509.6	2968.1	3795.1	4845.7	5403.2	5218.1	4172.2
75°	1255.5	1263.3	1260.9	1293.2	1344.7	1444.5	1771.6	2862.1	3701.4	3412.7	2325.3
77.5°	748.0	759.4	764.1	774.1	798.6	834.0	860.8	973.8	1552.0	1506.7	844.0
80°	626.6	635.8	628.2	625.9	610.5	599.7	612.8	599.7	556.7	536.0	493.8
82.5°	331.7	331.0	328.7	351.0	396.3	431.5	458.4	452.3	409.3	348.7	295.6
85°	182.0	188.2	188.2	195.8	188.9	189.7	195.8	206.6	191.3	159.7	130.5
87.5°	15.3	23.8	19.2	23.8	32.3	23.1	22.2	22.2	19.2	13.9	12.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1452.2	1452.2	1452.2	1452.2	1452.2	1452.2	1452.2	1452.2	1452.2	1452.2	1452.2
2.5°	1459.1	1457.5	1454.4	1452.2	1452.2	1448.3	1446.1	1444.5	1443.7	1440.7	1440.7
5°	1454.4	1449.1	1443.7	1439.9	1437.6	1433.8	1427.6	1424.5	1420.7	1417.6	1416.1
7.5°	1444.5	1434.5	1426.1	1419.9	1412.2	1406.1	1398.4	1391.5	1384.6	1381.5	1380.0
10°	1429.1	1416.1	1403.0	1391.5	1380.8	1370.0	1360.0	1350.1	1341.6	1335.5	1329.3
12.5°	1414.5	1394.6	1377.7	1360.8	1343.9	1330.8	1317.0	1302.4	1290.1	1278.6	1275.5
15°	1394.6	1371.5	1350.1	1329.3	1308.6	1287.1	1270.1	1254.1	1234.1	1221.0	1211.1
17.5°	1376.1	1348.5	1322.4	1297.8	1272.5	1250.2	1224.8	1203.4	1183.4	1163.4	1148.8
20°	1356.2	1326.2	1298.6	1270.9	1243.3	1214.9	1185.7	1158.1	1133.5	1109.7	1085.9
22.5°	1338.5	1307.8	1280.9	1251.0	1220.3	1188.0	1154.2	1119.6	1091.3	1060.5	1032.8
25°	1327.7	1294.0	1266.3	1237.1	1203.4	1168.0	1129.6	1088.9	1054.3	1019.1	986.1
27.5°	1327.7	1284.0	1255.5	1226.4	1191.8	1154.2	1112.0	1067.4	1028.3	989.1	948.4
30°	1339.3	1285.5	1247.2	1216.4	1181.1	1140.4	1093.5	1046.7	1003.7	957.6	918.4
32.5°	1350.1	1288.6	1240.9	1201.8	1161.1	1121.2	1073.6	1023.6	976.0	932.3	890.8
35°	1356.9	1288.6	1229.5	1179.5	1133.5	1094.3	1047.4	997.6	949.1	906.1	867.7
37.5°	1357.7	1282.4	1211.1	1154.2	1105.9	1065.1	1020.6	973.8	927.6	887.7	855.4
40°	1350.1	1270.1	1192.6	1127.4	1076.7	1035.2	994.5	952.3	910.8	877.8	850.1
42.5°	1336.2	1257.1	1175.0	1105.9	1052.8	1009.9	972.2	936.1	900.0	871.6	848.6
45°	1315.4	1239.4	1158.8	1092.8	1040.6	995.3	958.4	928.5	897.7	873.9	850.9
47.5°	1297.0	1233.3	1164.2	1101.2	1046.7	999.8	962.2	936.8	913.0	896.9	865.5
50°	1293.2	1230.2	1166.5	1108.1	1052.8	1005.2	972.2	959.2	952.3	942.2	893.9
52.5°	1282.4	1229.5	1183.4	1151.2	1115.8	1093.5	1059.0	1071.3	1063.6	1028.3	940.7
55°	1395.4	1410.7	1453.7	1515.2	1571.9	1585.0	1581.2	1566.6	1489.0	1280.9	1053.6
57.5°	1918.3	2005.0	2086.5	2122.6	2118.0	2077.2	2048.1	1988.9	1876.8	1623.5	1276.3
60°	2644.8	2658.6	2615.6	2551.8	2444.3	2354.5	2258.5	2147.9	1985.1	1737.0	1413.0
62.5°	3313.6	3127.8	2936.6	2756.9	2593.3	2450.5	2316.9	2162.5	1950.5	1691.7	1395.4
65°	3785.9	3392.8	3090.9	2832.9	2601.8	2402.1	2235.5	2035.0	1796.2	1562.7	1293.2
67.5°	4029.3	3426.5	2963.5	2604.1	2276.2	1999.7	1777.8	1582.7	1405.3	1303.2	1131.9
70°	3757.5	2908.2	2263.1	1856.8	1464.5	1174.1	927.6	778.7	727.3	824.0	857.0
72.5°	2799.9	1892.9	1346.1	1041.3	797.9	635.8	487.6	383.2	311.8	327.2	424.7
75°	1323.9	817.1	577.5	439.3	349.4	289.5	236.6	216.6	181.2	150.5	141.3
77.5°	515.3	375.5	310.2	227.4	161.3	129.8	110.6	106.7	109.0	106.0	104.5
80°	392.4	265.7	166.6	122.1	105.2	92.9	82.1	79.1	80.7	84.5	88.3
82.5°	218.9	136.7	101.4	88.3	79.1	67.5	61.4	56.8	57.6	62.2	70.6
85°	84.5	66.0	60.7	58.3	54.5	43.8	37.7	38.4	43.8	52.2	52.2
87.5°	9.2	9.2	12.3	9.2	9.2	9.2	8.5	10.0	10.8	13.9	16.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1452.2	1452.2	1452.2	1452.2	1452.2	1452.2	1452.2	1452.2	1452.2	1452.2	1452.2
2.5°	1439.1	1439.1	1439.1	1437.6	1438.3	1435.3	1435.3	1432.9	1436.8	1434.5	1433.8
5°	1416.8	1416.1	1413.0	1413.0	1413.0	1413.0	1415.3	1409.1	1413.8	1413.8	1411.5
7.5°	1379.2	1379.2	1370.8	1375.4	1373.9	1376.1	1379.2	1376.1	1380.8	1383.8	1381.5
10°	1327.0	1327.0	1320.1	1325.5	1323.2	1328.6	1333.9	1330.8	1333.9	1338.5	1340.0
12.5°	1269.4	1266.3	1260.2	1262.5	1262.5	1265.6	1267.8	1271.7	1275.5	1281.7	1284.8
15°	1202.6	1198.0	1190.3	1190.3	1185.7	1187.3	1191.8	1193.4	1201.0	1209.5	1219.4
17.5°	1134.2	1122.7	1114.2	1104.3	1096.6	1102.8	1108.1	1112.0	1118.1	1131.2	1138.1
20°	1069.8	1046.7	1030.6	1017.5	1009.0	1012.9	1019.8	1024.5	1029.8	1032.8	1035.2
22.5°	1006.0	979.9	957.6	941.5	927.6	931.5	928.5	926.1	930.0	920.0	919.3
25°	950.7	920.0	890.1	870.8	854.0	848.6	832.5	828.6	817.9	809.4	803.3
27.5°	910.8	870.8	837.8	815.5	788.7	768.7	748.0	727.3	715.7	701.9	695.0
30°	879.3	837.0	797.9	760.3	724.9	694.2	666.6	639.7	621.2	601.3	588.3
32.5°	850.1	811.0	763.4	711.9	664.3	629.7	593.6	562.9	533.7	507.6	488.4
35°	830.1	786.3	725.7	662.7	608.9	568.3	529.9	486.1	450.8	417.0	396.3
37.5°	819.4	765.6	691.2	621.2	561.4	515.3	467.6	417.0	374.0	342.5	311.0
40°	811.0	744.9	660.5	584.4	521.4	466.1	410.9	351.0	303.4	270.3	245.8
42.5°	801.7	721.9	633.6	555.3	485.3	420.8	354.0	290.2	244.9	222.0	211.2
45°	791.7	701.9	608.2	527.5	450.0	371.7	294.9	235.7	208.8	201.2	201.2
47.5°	789.4	688.8	589.8	500.7	410.0	314.9	240.4	203.5	195.8	197.4	200.5
50°	798.6	685.0	573.7	469.2	357.1	255.0	203.5	191.3	192.7	197.4	202.0
52.5°	820.9	688.1	556.7	425.4	294.1	210.4	188.2	187.3	192.0	198.9	203.5
55°	858.5	688.1	524.5	360.2	235.0	188.9	182.8	185.9	192.0	198.1	202.0
57.5°	939.2	681.1	467.6	288.0	196.6	181.2	181.2	185.1	190.4	196.6	199.6
60°	1035.2	671.9	387.8	222.7	177.4	175.1	180.5	185.1	189.7	195.1	198.1
62.5°	1041.3	648.1	307.2	184.3	167.4	171.3	179.7	185.9	187.3	191.3	195.1
65°	956.8	565.2	244.2	165.1	162.8	168.9	177.4	182.0	182.8	184.3	188.2
67.5°	837.8	460.7	197.4	155.9	158.2	165.1	169.7	173.6	175.8	179.7	180.5
70°	688.1	370.1	168.9	146.7	149.0	156.7	160.5	164.4	168.9	173.6	171.3
72.5°	487.6	288.0	148.2	136.7	139.7	146.7	151.3	154.3	158.2	162.8	159.7
75°	207.4	201.2	128.3	123.6	128.3	132.8	137.5	142.0	145.9	148.2	148.2
77.5°	106.0	118.2	110.6	110.6	113.7	118.2	122.1	126.7	129.0	131.3	134.4
80°	89.9	91.3	92.9	96.0	99.1	103.6	107.5	111.3	112.1	112.9	114.4
82.5°	74.5	77.6	79.1	83.7	86.0	87.5	89.9	89.9	91.3	91.3	89.1
85°	53.8	57.6	59.9	60.7	59.9	60.7	61.4	63.0	66.8	66.8	63.7
87.5°	15.3	14.6	18.4	19.2	20.7	23.8	26.9	32.3	33.8	35.3	35.3
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°	170°	175°	180°
0°	1452.2	1452.2	1452.2	1452.2
2.5°	1432.9	1434.5	1431.5	1432.2
5°	1411.5	1414.5	1410.7	1415.3
7.5°	1383.8	1388.4	1387.6	1386.9
10°	1343.9	1350.1	1350.1	1352.3
12.5°	1293.2	1297.0	1300.1	1301.7
15°	1224.8	1231.7	1235.6	1235.6
17.5°	1142.7	1147.3	1149.6	1146.5
20°	1038.2	1036.8	1037.5	1029.8
22.5°	917.7	920.0	913.0	914.6
25°	799.4	795.5	798.6	794.1
27.5°	685.0	685.8	677.3	681.1
30°	575.9	572.1	561.4	566.7
32.5°	470.7	460.7	449.2	442.3
35°	371.7	356.3	351.0	348.7
37.5°	291.8	274.9	269.6	263.4
40°	231.9	225.8	223.4	225.0
42.5°	208.1	208.1	209.7	210.4
45°	202.0	204.3	206.6	207.4
47.5°	202.7	205.0	208.1	208.8
50°	204.3	206.6	208.8	209.7
52.5°	205.0	205.0	206.6	207.4
55°	203.5	202.7	203.5	204.3
57.5°	200.5	198.9	199.6	202.0
60°	198.9	196.6	198.1	199.6
62.5°	195.1	194.3	195.8	196.6
65°	186.6	187.3	189.7	189.7
67.5°	178.9	179.7	180.5	181.2
70°	169.7	170.5	172.0	172.7
72.5°	159.0	162.0	164.4	167.4
75°	150.5	153.6	158.2	161.3
77.5°	135.9	138.2	143.6	147.4
80°	115.2	114.4	115.2	117.5
82.5°	88.3	88.3	87.5	86.8
85°	62.2	61.4	59.2	59.2
87.5°	33.8	33.0	32.3	30.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)