

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: P180943

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180943
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: ICS-F03-LED-E1-SL4
Description: ICON SITE SMALL 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: 6584.8 lumens
Efficiency: N/A
Efficacy: 84.1 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

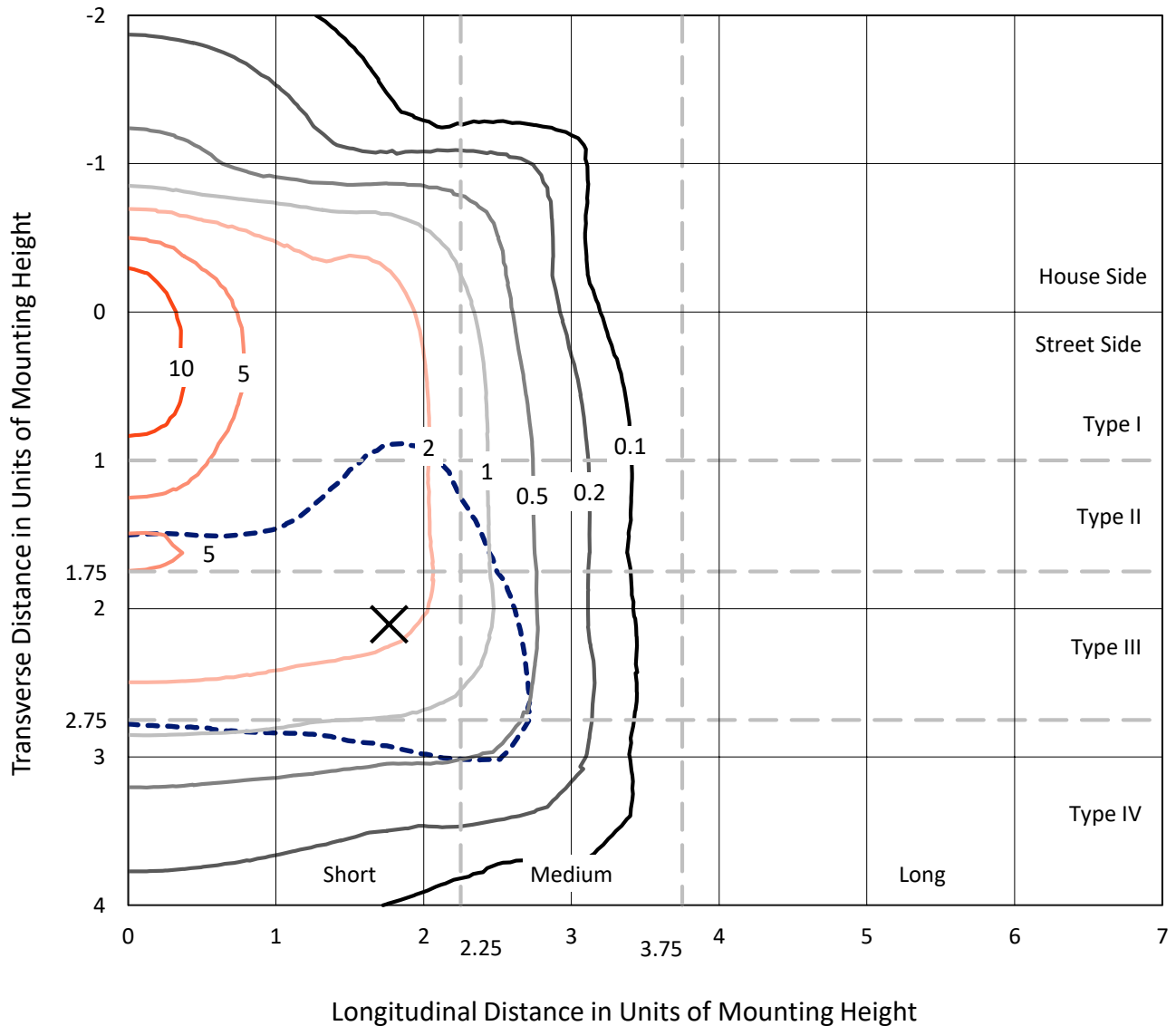
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

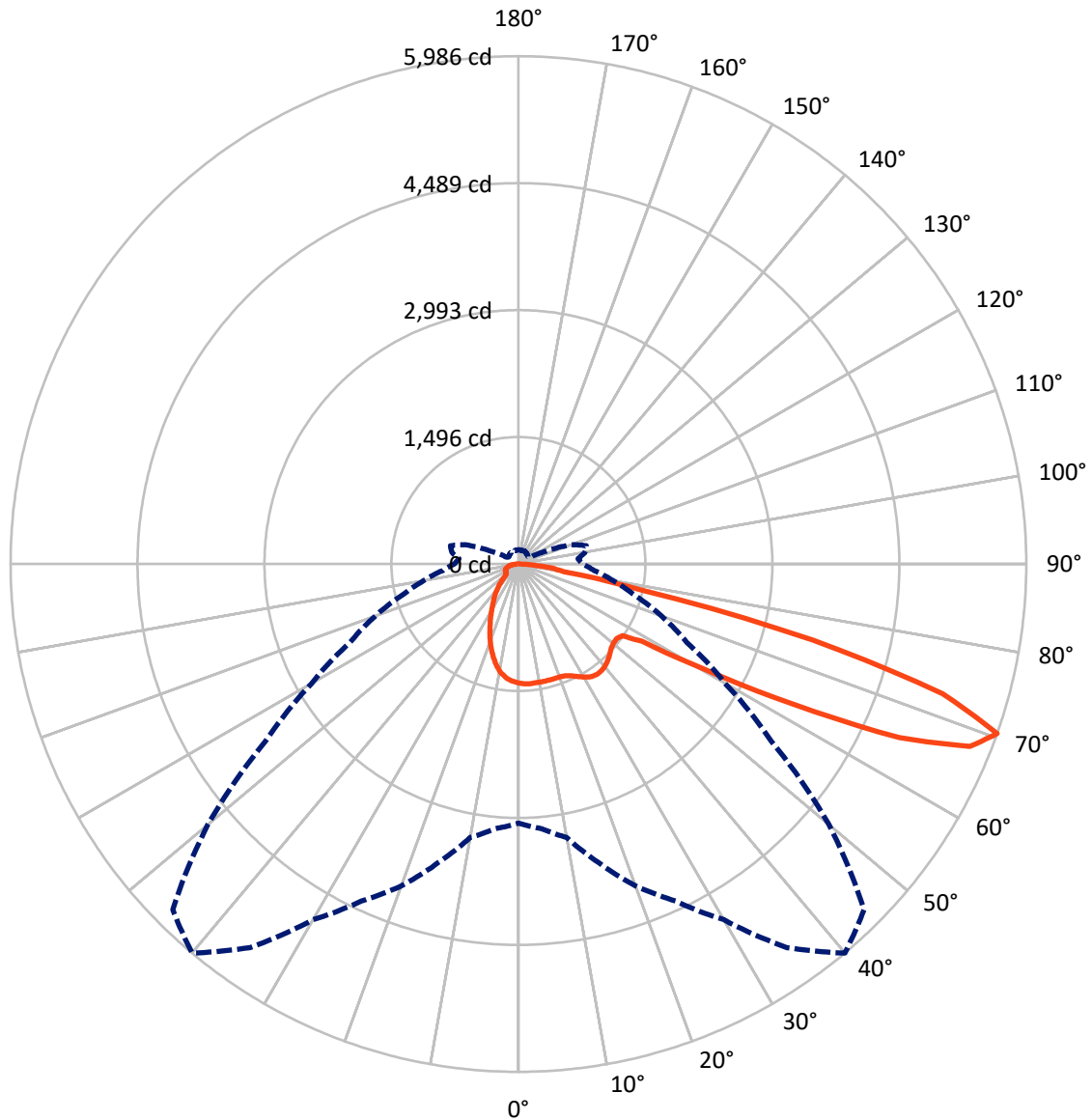
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.1 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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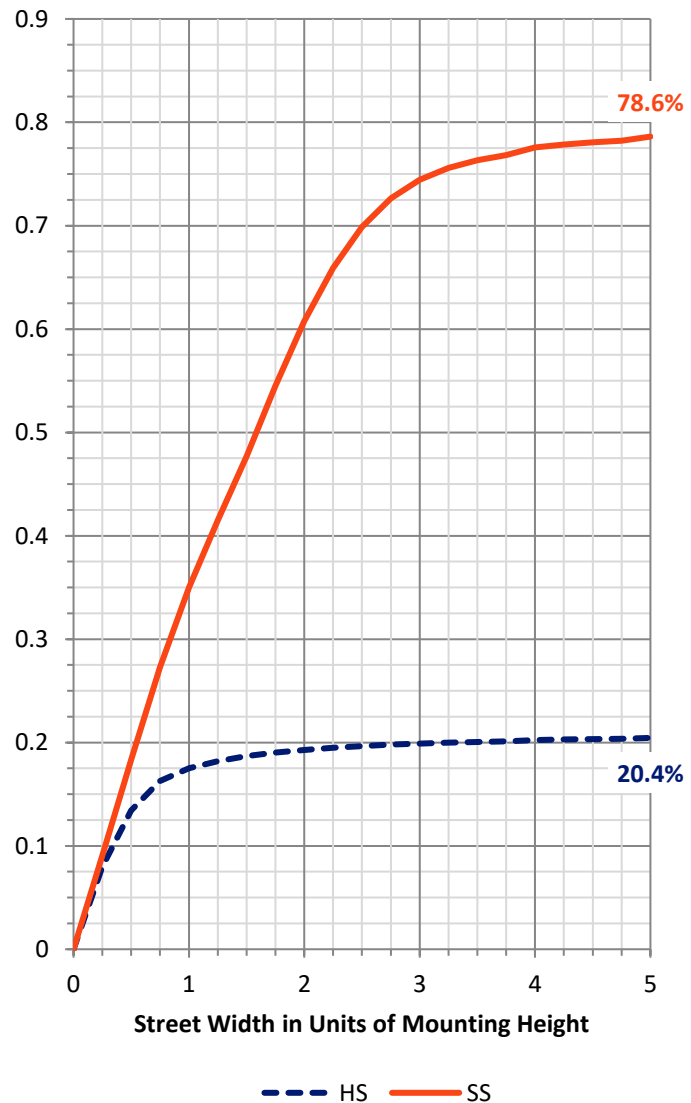
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1366.9	0.0	1366.9
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	5217.9	0.0	5217.9
	% Fixture	79.2	0.0	79.2
Total	Lumens	6584.8	0.0	6584.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	2.0
10°-20°	359.3	5.5
20°-30°	531.9	8.1
30°-40°	672.2	10.2
40°-50°	760.3	11.5
50°-60°	1081.9	16.4
60°-70°	2014.9	30.6
70°-80°	923.4	14.0
80°-90°	109.6	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°	6584.8	100.0
0°-180°	6584.8	100.0



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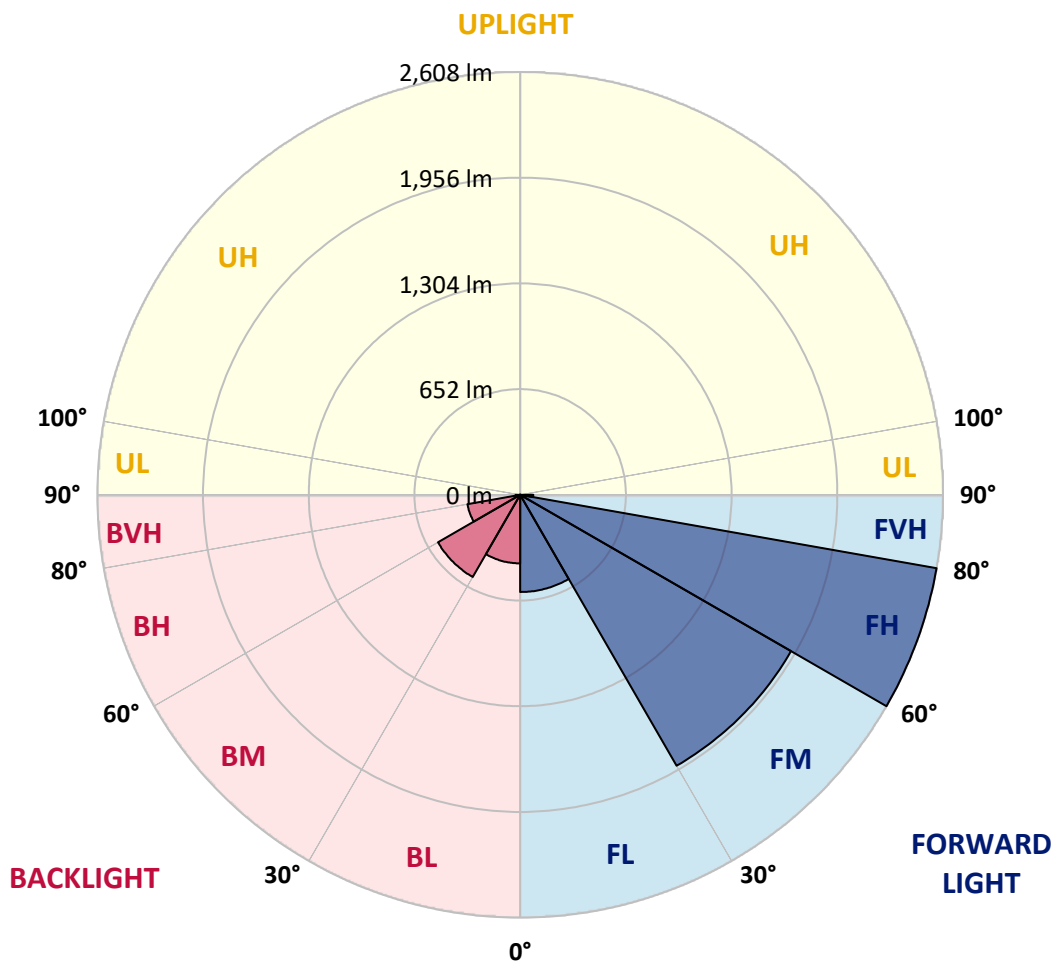
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	599.6	9.1			
FM	(30°-60°)	1929.1	29.3			
FH	(60°-80°)	2607.8	39.6			G2/5000
FVH	(80°-90°)	81.3	1.2			G1/100
BL	(0°-30°)	422.9	6.4	B1/500		
BM	(30°-60°)	585.2	8.9	B1/1000		
BH	(60°-80°)	330.5	5.0	B1/500		G1/500
BVH	(80°-90°)	28.3	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°	1405.0	1405.0	1405.0	1405.0	1405.0	1405.0	1405.0	1405.0	1405.0	1405.0	1405.0
2.5°	1426.6	1430.3	1425.8	1425.1	1425.1	1424.4	1419.9	1419.2	1413.2	1414.0	1415.4
5°	1437.0	1438.5	1435.5	1434.8	1433.3	1430.3	1426.6	1422.1	1417.7	1413.2	1409.5
7.5°	1447.4	1445.9	1443.7	1443.7	1441.4	1437.0	1429.6	1423.6	1414.0	1408.8	1402.1
10°	1462.2	1460.0	1457.0	1455.6	1451.8	1445.2	1434.8	1426.6	1414.7	1404.3	1393.1
12.5°	1476.4	1475.6	1471.2	1468.9	1463.0	1456.3	1443.7	1431.0	1415.4	1399.1	1384.2
15°	1501.6	1498.7	1494.2	1489.7	1480.1	1471.2	1451.8	1437.0	1414.7	1393.1	1370.1
17.5°	1545.5	1540.3	1535.8	1526.1	1514.3	1498.7	1470.4	1445.2	1414.7	1383.5	1357.5
20°	1625.7	1614.6	1608.6	1596.0	1575.2	1547.0	1503.1	1462.2	1416.9	1376.8	1341.9
22.5°	1716.4	1708.9	1700.8	1692.6	1659.9	1619.0	1559.6	1498.7	1430.3	1373.8	1329.2
25°	1818.2	1808.5	1804.0	1789.9	1759.5	1712.6	1631.7	1547.0	1460.8	1385.7	1329.2
27.5°	1908.8	1905.8	1905.1	1888.7	1859.8	1804.8	1708.9	1607.1	1502.4	1410.2	1340.4
30°	1991.3	1988.3	1986.8	1977.9	1944.5	1879.1	1775.1	1660.6	1547.7	1444.4	1361.2
32.5°	2078.9	2069.3	2064.8	2047.7	2009.8	1933.3	1814.4	1695.6	1583.4	1477.9	1384.2
35°	2150.3	2142.1	2133.2	2108.7	2055.2	1964.5	1831.5	1707.4	1597.5	1496.4	1396.1
37.5°	2202.3	2194.1	2181.5	2150.3	2084.2	1974.9	1830.8	1703.7	1592.3	1493.5	1398.4
40°	2225.3	2217.2	2203.8	2164.4	2089.4	1969.0	1816.7	1686.6	1576.7	1477.9	1389.4
42.5°	2216.4	2210.5	2193.4	2155.5	2073.0	1942.2	1788.4	1654.7	1547.0	1452.6	1369.4
45°	2182.2	2177.8	2161.4	2121.3	2035.9	1899.1	1746.8	1614.6	1511.3	1421.4	1342.6
47.5°	2131.0	2129.5	2113.1	2073.7	1989.0	1856.0	1703.7	1575.2	1475.6	1390.9	1320.3
50°	2074.5	2067.1	2058.9	2022.5	1945.2	1818.9	1672.5	1550.7	1455.6	1379.8	1310.7
52.5°	2038.8	2036.6	2029.2	1996.5	1922.2	1797.3	1658.4	1541.8	1454.1	1377.5	1305.5
55°	2355.4	2360.6	2292.2	2150.3	2025.5	1856.8	1700.8	1587.1	1490.5	1413.2	1360.5
57.5°	3484.0	3461.0	3343.6	3062.0	2743.9	2324.1	2021.7	1838.2	1718.6	1732.0	1758.7
60°	4059.1	4054.6	4033.1	3923.9	3712.1	3392.6	3038.2	2631.8	2502.5	2516.6	2527.0
62.5°	4316.2	4322.8	4339.2	4298.3	4242.6	4149.7	3972.9	3809.4	3636.3	3571.7	3398.5
65°	4435.0	4446.9	4484.1	4507.1	4528.7	4545.0	4614.9	4806.6	4932.9	4696.6	4146.8
67.5°	4189.1	4246.3	4368.9	4488.5	4595.5	4747.9	4984.1	5429.2	5739.0	5448.5	4651.3
70°	3053.8	3131.8	3272.2	3642.2	4037.5	4383.0	4840.7	5518.4	5985.7	5761.3	4776.1
72.5°	1914.7	1936.3	1998.7	2134.7	2428.2	2871.7	3672.0	4688.4	5227.8	5048.8	4036.8
75°	1214.8	1222.3	1220.0	1251.2	1301.0	1397.6	1714.1	2769.2	3581.3	3301.9	2249.8
77.5°	723.7	734.8	739.3	749.0	772.7	806.9	832.9	942.1	1501.6	1457.8	816.6
80°	606.3	615.2	607.8	605.6	590.7	580.3	592.9	580.3	538.7	518.6	477.8
82.5°	321.0	320.2	318.0	339.6	383.4	417.6	443.6	437.6	396.0	337.3	286.1
85°	176.1	182.0	182.0	189.5	182.8	183.5	189.5	199.9	185.0	154.5	126.3
87.5°	14.9	23.0	18.6	23.0	31.2	22.3	21.5	21.5	18.6	13.4	11.9
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°	1405.0	1405.0	1405.0	1405.0	1405.0	1405.0	1405.0	1405.0	1405.0	1405.0	1405.0
2.5°	1411.7	1410.2	1407.3	1405.0	1405.0	1401.3	1399.1	1397.6	1396.9	1393.9	1393.9
5°	1407.3	1402.1	1396.9	1393.1	1390.9	1387.2	1381.3	1378.3	1374.6	1371.6	1370.1
7.5°	1397.6	1387.9	1379.8	1373.8	1366.4	1360.5	1353.0	1346.3	1339.7	1336.7	1335.2
10°	1382.7	1370.1	1357.5	1346.3	1335.9	1325.5	1315.9	1306.2	1298.0	1292.1	1286.2
12.5°	1368.6	1349.3	1333.0	1316.6	1300.3	1287.6	1274.3	1260.1	1248.3	1237.1	1234.1
15°	1349.3	1327.0	1306.2	1286.2	1266.1	1245.3	1228.9	1213.3	1194.0	1181.4	1171.7
17.5°	1331.5	1304.7	1279.5	1255.7	1231.2	1209.6	1185.1	1164.3	1145.0	1125.7	1111.5
20°	1312.2	1283.2	1256.4	1229.7	1202.9	1175.4	1147.2	1120.5	1096.7	1073.7	1050.6
22.5°	1295.1	1265.4	1239.3	1210.4	1180.6	1149.4	1116.7	1083.3	1055.8	1026.1	999.4
25°	1284.7	1252.0	1225.2	1197.0	1164.3	1130.1	1093.0	1053.6	1020.2	986.0	954.0
27.5°	1284.7	1242.3	1214.8	1186.6	1153.2	1116.7	1075.9	1032.8	994.9	957.0	917.6
30°	1295.8	1243.8	1206.7	1176.9	1142.8	1103.4	1058.1	1012.7	971.1	926.5	888.6
32.5°	1306.2	1246.8	1200.7	1162.8	1123.4	1084.8	1038.7	990.4	944.4	902.0	861.9
35°	1312.9	1246.8	1189.6	1141.3	1096.7	1058.8	1013.5	965.2	918.4	876.8	839.6
37.5°	1313.6	1240.8	1171.7	1116.7	1069.9	1030.6	987.5	942.1	897.6	858.9	827.7
40°	1306.2	1228.9	1153.9	1090.7	1041.7	1001.6	962.2	921.3	881.2	849.3	822.5
42.5°	1292.8	1216.3	1136.8	1069.9	1018.7	977.1	940.7	905.7	870.8	843.3	821.0
45°	1272.8	1199.2	1121.2	1057.3	1006.8	962.9	927.3	898.3	868.6	845.5	823.3
47.5°	1254.9	1193.3	1126.4	1065.5	1012.7	967.4	931.0	906.5	883.4	867.8	837.4
50°	1251.2	1190.3	1128.6	1072.2	1018.7	972.6	940.7	928.0	921.3	911.7	864.9
52.5°	1240.8	1189.6	1145.0	1113.8	1079.6	1058.1	1024.6	1036.5	1029.1	994.9	910.2
55°	1350.1	1364.9	1406.5	1466.0	1520.9	1533.6	1529.9	1515.7	1440.7	1239.3	1019.4
57.5°	1856.0	1940.0	2018.8	2053.7	2049.2	2009.8	1981.6	1924.4	1815.9	1570.7	1234.9
60°	2558.9	2572.3	2530.7	2469.0	2365.0	2278.1	2185.2	2078.2	1920.7	1680.7	1367.1
62.5°	3206.1	3026.3	2841.3	2667.4	2509.2	2371.0	2241.7	2092.3	1887.3	1636.9	1350.1
65°	3663.1	3282.6	2990.6	2741.0	2517.3	2324.1	2162.9	1969.0	1737.9	1512.0	1251.2
67.5°	3898.6	3315.3	2867.3	2519.6	2202.3	1934.8	1720.1	1531.3	1359.7	1260.9	1095.2
70°	3635.6	2813.8	2189.7	1796.6	1416.9	1136.1	897.6	753.4	703.6	797.3	829.2
72.5°	2709.0	1831.5	1302.5	1007.5	772.0	615.2	471.8	370.8	301.7	316.5	410.9
75°	1281.0	790.6	558.7	425.0	338.1	280.1	228.8	209.5	175.4	145.6	136.7
77.5°	498.6	363.3	300.2	219.9	156.0	125.6	107.0	103.3	105.5	102.5	101.0
80°	379.7	257.1	161.2	118.1	101.8	89.9	79.5	76.5	78.0	81.7	85.4
82.5°	211.8	132.3	98.1	85.4	76.5	65.4	59.4	55.0	55.7	60.2	68.4
85°	81.7	63.9	58.7	56.5	52.8	42.4	36.4	37.2	42.4	50.5	50.5
87.5°	8.9	8.9	11.9	8.9	8.9	8.9	8.2	9.7	10.4	13.4	15.6
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°	1405.0	1405.0	1405.0	1405.0	1405.0	1405.0	1405.0	1405.0	1405.0	1405.0	1405.0
2.5°	1392.4	1392.4	1392.4	1390.9	1391.7	1388.7	1388.7	1386.5	1390.2	1387.9	1387.2
5°	1370.9	1370.1	1367.1	1367.1	1367.1	1367.1	1369.4	1363.4	1367.9	1367.9	1365.7
7.5°	1334.5	1334.5	1326.3	1330.7	1329.2	1331.5	1334.5	1331.5	1335.9	1338.9	1336.7
10°	1283.9	1283.9	1277.2	1282.4	1280.2	1285.4	1290.6	1287.6	1290.6	1295.1	1296.6
12.5°	1228.2	1225.2	1219.3	1221.5	1221.5	1224.5	1226.7	1230.4	1234.1	1240.1	1243.1
15°	1163.6	1159.1	1151.7	1151.7	1147.2	1148.7	1153.2	1154.6	1162.1	1170.2	1179.9
17.5°	1097.4	1086.3	1078.1	1068.5	1061.0	1067.0	1072.2	1075.9	1081.8	1094.5	1101.1
20°	1035.0	1012.7	997.1	984.5	976.3	980.0	986.7	991.2	996.4	999.4	1001.6
22.5°	973.3	948.1	926.5	910.9	897.6	901.3	898.3	896.1	899.8	890.1	889.4
25°	919.8	890.1	861.2	842.6	826.2	821.0	805.4	801.7	791.3	783.1	777.2
27.5°	881.2	842.6	810.6	789.1	763.1	743.8	723.7	703.6	692.5	679.1	672.4
30°	850.7	809.9	772.0	735.6	701.4	671.7	644.9	618.9	601.1	581.8	569.1
32.5°	822.5	784.6	738.6	688.8	642.7	609.3	574.3	544.6	516.4	491.1	472.6
35°	803.2	760.8	702.1	641.2	589.2	549.8	512.7	470.3	436.1	403.5	383.4
37.5°	792.8	740.8	668.7	601.1	543.1	498.6	452.5	403.5	361.8	331.4	300.9
40°	784.6	720.7	639.0	565.4	504.5	451.0	397.5	339.6	293.5	261.5	237.8
42.5°	775.7	698.4	613.0	537.2	469.6	407.2	342.5	280.9	237.0	214.7	204.3
45°	766.0	679.1	588.5	510.4	435.4	359.6	285.3	228.1	202.1	194.7	194.7
47.5°	763.8	666.5	570.6	484.4	396.8	304.6	232.6	196.9	189.5	191.0	193.9
50°	772.7	662.8	555.0	454.0	345.5	246.7	196.9	185.0	186.5	191.0	195.4
52.5°	794.3	665.7	538.7	411.6	284.6	203.6	182.0	181.3	185.8	192.4	196.9
55°	830.7	665.7	507.5	348.5	227.4	182.8	176.8	179.8	185.8	191.7	195.4
57.5°	908.7	659.1	452.5	278.6	190.2	175.4	175.4	179.1	184.3	190.2	193.2
60°	1001.6	650.1	375.2	215.5	171.6	169.4	174.6	179.1	183.5	188.7	191.7
62.5°	1007.5	627.1	297.2	178.3	162.0	165.7	173.9	179.8	181.3	185.0	188.7
65°	925.8	546.9	236.3	159.7	157.5	163.5	171.6	176.1	176.8	178.3	182.0
67.5°	810.6	445.8	191.0	150.8	153.1	159.7	164.2	167.9	170.1	173.9	174.6
70°	665.7	358.1	163.5	141.9	144.1	151.6	155.3	159.0	163.5	167.9	165.7
72.5°	471.8	278.6	143.4	132.3	135.2	141.9	146.4	149.3	153.1	157.5	154.5
75°	200.6	194.7	124.1	119.6	124.1	128.5	133.0	137.5	141.2	143.4	143.4
77.5°	102.5	114.4	107.0	107.0	110.0	114.4	118.1	122.6	124.8	127.1	130.0
80°	86.9	88.4	89.9	92.9	95.8	100.3	104.0	107.7	108.5	109.2	110.7
82.5°	72.1	75.0	76.5	81.0	83.2	84.7	86.9	86.9	88.4	88.4	86.2
85°	52.0	55.7	58.0	58.7	58.0	58.7	59.4	60.9	64.6	64.6	61.7
87.5°	14.9	14.1	17.8	18.6	20.1	23.0	26.0	31.2	32.7	34.2	34.2
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°	170°	175°	180°
0°	1405.0	1405.0	1405.0	1405.0
2.5°	1386.5	1387.9	1385.0	1385.7
5°	1365.7	1368.6	1364.9	1369.4
7.5°	1338.9	1343.4	1342.6	1341.9
10°	1300.3	1306.2	1306.2	1308.4
12.5°	1251.2	1254.9	1257.9	1259.4
15°	1185.1	1191.8	1195.5	1195.5
17.5°	1105.6	1110.1	1112.3	1109.3
20°	1004.6	1003.1	1003.8	996.4
22.5°	887.9	890.1	883.4	884.9
25°	773.5	769.8	772.7	768.3
27.5°	662.8	663.5	655.3	659.1
30°	557.3	553.5	543.1	548.3
32.5°	455.5	445.8	434.7	428.0
35°	359.6	344.8	339.6	337.3
37.5°	282.3	266.0	260.8	254.9
40°	224.4	218.4	216.2	217.7
42.5°	201.4	201.4	202.8	203.6
45°	195.4	197.6	199.9	200.6
47.5°	196.2	198.4	201.4	202.1
50°	197.6	199.9	202.1	202.8
52.5°	198.4	198.4	199.9	200.6
55°	196.9	196.2	196.9	197.6
57.5°	193.9	192.4	193.2	195.4
60°	192.4	190.2	191.7	193.2
62.5°	188.7	188.0	189.5	190.2
65°	180.6	181.3	183.5	183.5
67.5°	173.1	173.9	174.6	175.4
70°	164.2	164.9	166.4	167.2
72.5°	153.8	156.8	159.0	162.0
75°	145.6	148.6	153.1	156.0
77.5°	131.5	133.7	138.9	142.7
80°	111.5	110.7	111.5	113.7
82.5°	85.4	85.4	84.7	84.0
85°	60.2	59.4	57.2	57.2
87.5°	32.7	31.9	31.2	29.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)