

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: P181702

Luminaire Tested: **ICS-F03-LED-E1-T4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181702
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
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-T4-8030
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5685.3 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

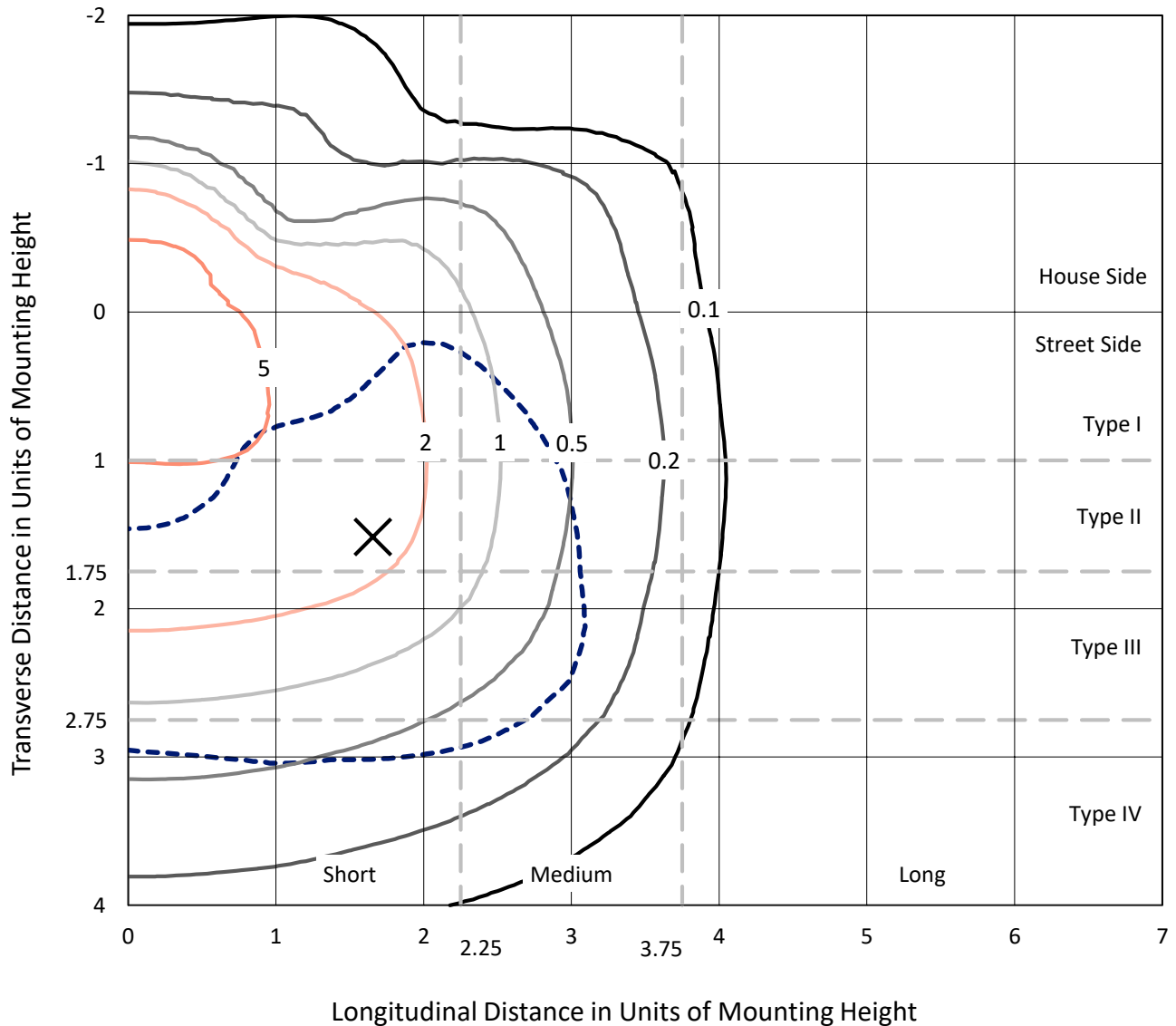
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

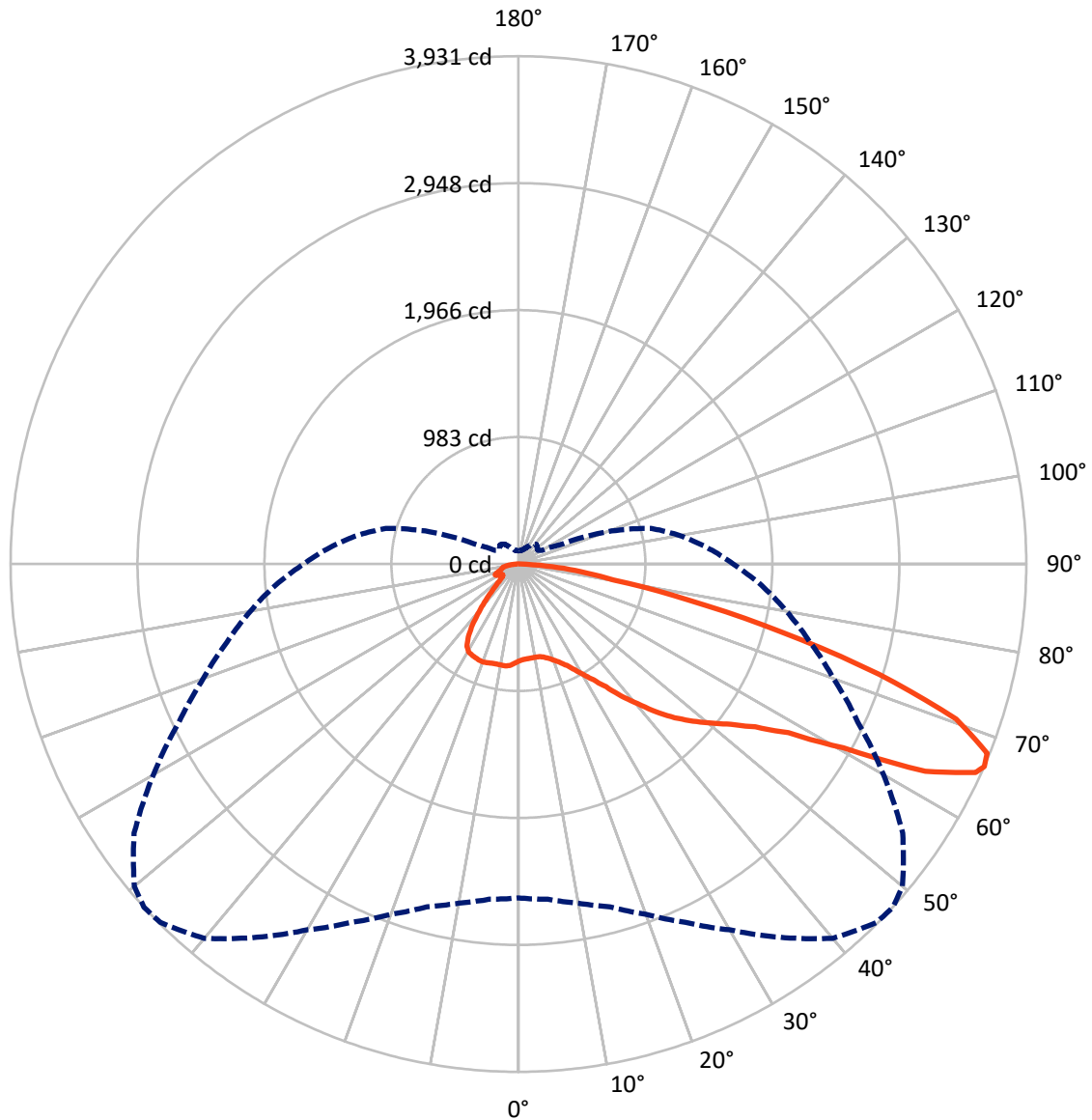
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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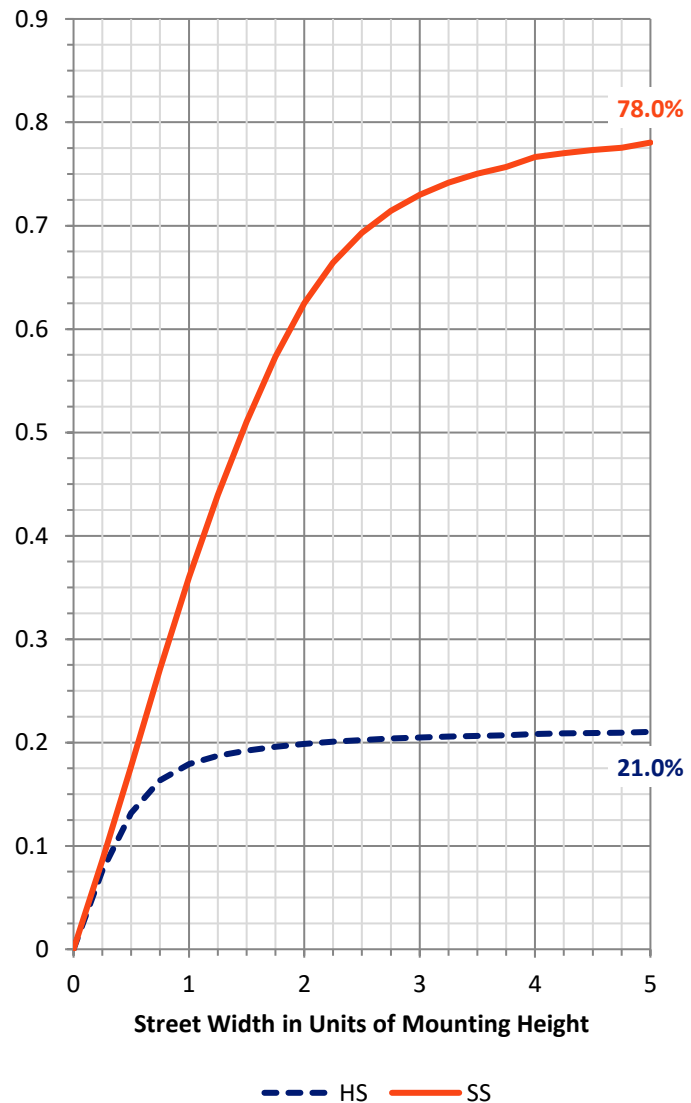
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1213.1	0.0	1213.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	4472.2	0.0	4472.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	5685.3	0.0	5685.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.3
10°-20°	220.9	3.9
20°-30°	380.6	6.7
30°-40°	575.8	10.1
40°-50°	746.3	13.1
50°-60°	1028.9	18.1
60°-70°	1598.5	28.1
70°-80°	929.5	16.3
80°-90°	132.2	2.3
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°	5685.3	100.0
0°-180°	5685.3	100.0

Coefficient of Utilization



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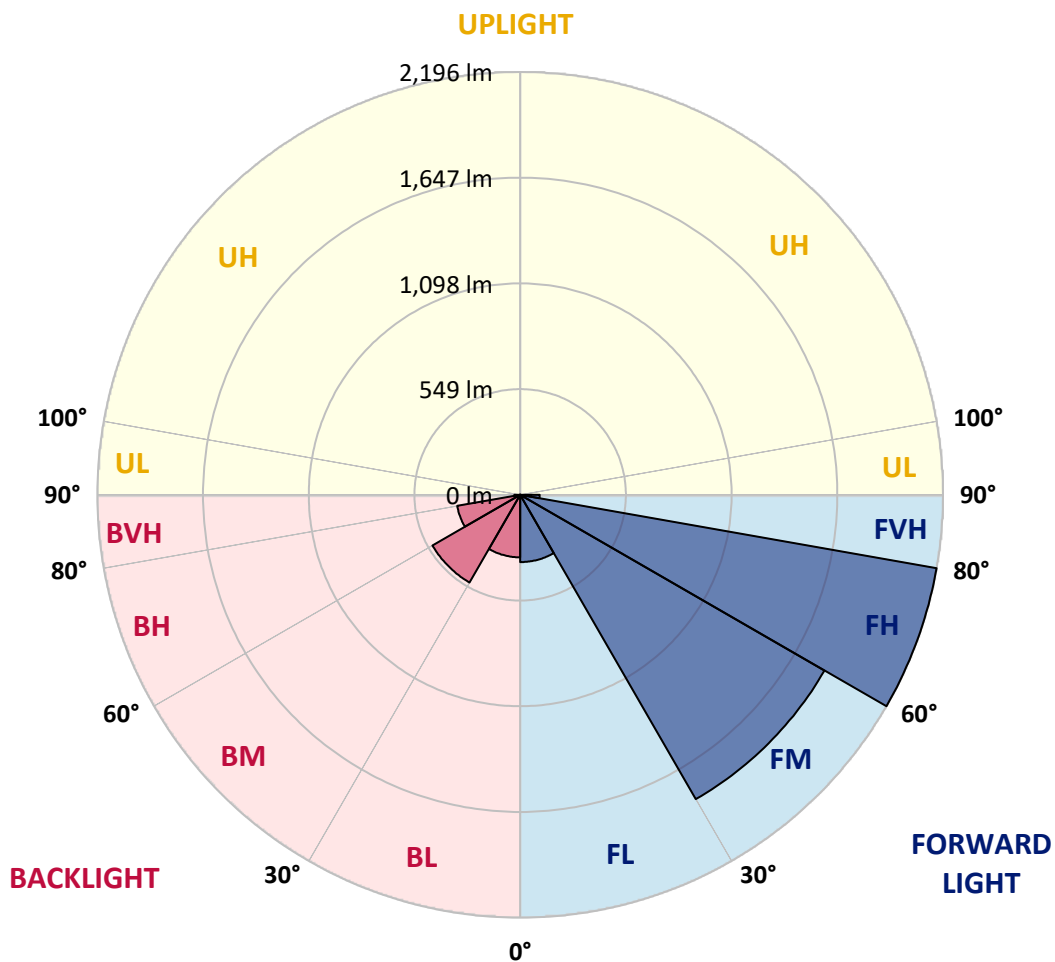
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	349.5	6.1			
FM	(30°-60°)	1825.0	32.1			
FH	(60°-80°)	2196.2	38.6			G2/5000
FVH	(80°-90°)	101.4	1.8			G2/225
BL	(0°-30°)	324.7	5.7	B1/500		
BM	(30°-60°)	525.9	9.2	B1/1000		
BH	(60°-80°)	331.8	5.8	B1/500		G1/500
BVH	(80°-90°)	30.7	0.5			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°	47.5°
0°	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4
2.5°	735.6	738.1	736.2	736.8	736.8	737.5	737.5	738.1	737.5	739.3	740.6
5°	722.4	723.7	723.0	724.3	725.6	728.1	727.4	730.6	731.2	733.1	736.2
7.5°	717.4	716.1	716.8	718.7	719.9	721.2	722.4	724.9	726.8	731.2	733.7
10°	722.4	721.8	722.4	723.7	723.7	724.3	723.0	725.6	726.8	730.6	733.1
12.5°	743.1	743.1	741.9	741.9	740.6	739.3	736.2	734.3	733.7	734.3	735.6
15°	776.3	775.1	772.6	770.7	768.2	763.8	759.4	755.7	753.1	749.4	748.1
17.5°	809.0	807.1	804.6	802.1	798.9	794.5	787.6	783.2	776.3	772.0	769.4
20°	846.6	842.8	839.7	836.5	830.3	829.0	822.1	814.6	806.4	796.4	795.2
22.5°	895.5	889.2	885.5	883.6	877.3	875.4	864.1	853.5	843.4	830.3	827.1
25°	945.0	938.8	936.9	934.4	930.0	927.5	916.8	904.9	891.7	873.5	869.8
27.5°	993.3	993.9	988.9	990.8	989.6	985.2	974.5	962.6	952.6	931.2	926.8
30°	1053.5	1049.8	1047.3	1051.0	1046.6	1047.3	1037.8	1031.6	1015.3	1002.7	993.9
32.5°	1116.2	1115.6	1119.4	1121.9	1121.2	1120.0	1112.5	1106.2	1091.8	1073.6	1069.8
35°	1202.1	1205.9	1209.0	1220.3	1220.3	1228.5	1221.0	1213.4	1196.5	1174.6	1167.0
37.5°	1260.5	1261.7	1274.3	1289.3	1308.1	1325.7	1330.7	1332.6	1325.7	1309.4	1298.1
40°	1313.8	1316.3	1336.3	1359.5	1387.1	1421.6	1442.3	1451.7	1453.6	1446.1	1421.6
42.5°	1367.1	1370.8	1391.5	1425.4	1463.6	1507.5	1543.9	1567.1	1580.3	1580.3	1565.9
45°	1429.2	1434.2	1456.7	1493.7	1538.3	1593.5	1643.6	1688.1	1709.5	1710.7	1696.9
47.5°	1502.5	1506.9	1533.2	1570.9	1616.7	1672.5	1735.8	1786.6	1826.1	1828.6	1817.3
50°	1597.2	1603.5	1625.4	1659.3	1706.3	1762.8	1826.1	1897.0	1938.4	1948.4	1936.5
52.5°	1722.6	1723.9	1742.1	1773.4	1819.2	1873.1	1940.2	2017.4	2071.9	2080.1	2060.6
55°	1895.7	1893.8	1905.7	1939.6	1974.1	2016.1	2085.7	2172.3	2233.1	2245.6	2225.6
57.5°	2130.9	2129.0	2139.0	2147.2	2211.8	2252.5	2320.9	2403.7	2462.6	2499.0	2464.5
60°	2495.2	2493.3	2509.6	2557.3	2605.6	2665.2	2731.6	2830.7	2913.5	2924.1	2890.3
62.5°	2759.2	2768.6	2804.4	2860.2	2958.0	3074.7	3196.3	3326.7	3496.7	3550.6	3534.3
65°	2667.0	2685.9	2735.4	2820.1	2950.5	3111.7	3302.3	3538.7	3766.3	3893.6	3889.9
66°	2584.3	2605.0	2665.8	2747.3	2885.3	3061.5	3269.7	3527.4	3782.0	3922.5	3931.3
67.5°	2433.8	2457.0	2516.5	2613.1	2747.3	2934.8	3158.7	3439.0	3726.8	3890.5	3913.7
70°	2140.9	2167.2	2210.5	2290.2	2422.5	2589.9	2825.7	3076.5	3378.2	3565.7	3593.9
72.5°	1789.7	1812.9	1861.2	1926.4	2034.9	2140.3	2325.3	2510.3	2726.0	2939.8	2919.1
75°	1284.9	1295.0	1323.8	1394.7	1453.0	1547.7	1696.3	1848.1	1995.4	2093.2	2107.0
77.5°	667.9	694.2	735.0	813.3	876.7	962.0	1058.5	1172.7	1280.5	1370.2	1345.7
80°	437.1	448.4	484.7	524.9	571.3	625.8	690.4	733.1	746.9	741.2	746.9
82.5°	252.1	272.8	321.1	351.8	386.3	405.1	456.5	505.4	533.0	498.5	486.0
85°	32.0	41.4	130.4	164.3	188.1	216.3	232.0	261.5	243.9	218.2	265.9
87.5°	6.9	6.3	8.8	18.8	19.4	16.3	30.7	32.6	20.1	10.0	12.5
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4
2.5°	741.9	742.5	743.7	745.6	746.9	748.1	749.4	751.3	752.5	753.8	756.3
5°	738.7	741.2	743.7	746.2	749.4	754.4	757.5	760.0	762.5	767.6	769.4
7.5°	736.8	741.2	745.0	749.4	754.4	758.8	764.4	767.6	771.3	774.5	778.2
10°	735.6	741.9	745.6	751.9	757.5	761.9	768.2	772.0	776.3	780.1	782.0
12.5°	738.1	741.2	745.0	751.3	758.2	764.4	771.3	774.5	778.2	781.4	782.0
15°	748.8	748.8	749.4	754.4	761.3	766.3	772.0	775.1	777.0	778.9	778.9
17.5°	768.2	763.8	760.7	761.3	765.7	768.8	772.0	772.0	770.7	770.1	768.8
20°	790.8	785.1	778.9	774.5	773.2	770.7	768.8	762.5	757.5	753.1	750.0
22.5°	823.4	814.6	805.8	797.7	790.1	780.7	770.1	757.5	745.6	737.5	732.4
25°	863.5	856.6	846.0	833.4	824.0	806.4	792.6	774.5	759.4	748.8	740.0
27.5°	920.6	912.4	902.4	891.1	877.3	857.9	840.9	819.6	801.4	785.8	774.5
30°	991.4	980.8	973.3	959.5	950.1	928.1	911.2	884.8	849.7	824.6	809.0
32.5°	1064.2	1052.3	1046.0	1035.3	1024.7	1011.5	985.8	945.0	899.9	859.1	832.2
35°	1161.4	1148.8	1137.6	1128.1	1112.5	1088.0	1065.4	1016.5	954.4	897.4	852.2
37.5°	1283.7	1263.0	1234.8	1210.9	1183.3	1148.2	1113.7	1063.6	992.7	918.7	858.5
40°	1414.1	1377.7	1337.6	1293.1	1245.4	1194.6	1155.1	1104.3	1024.7	936.9	854.1
42.5°	1550.2	1492.5	1436.7	1374.0	1307.5	1247.3	1195.9	1140.1	1048.5	941.9	836.5
45°	1685.0	1620.4	1535.8	1453.6	1369.6	1295.0	1237.3	1174.6	1070.5	943.8	813.3
47.5°	1796.6	1730.2	1633.6	1530.7	1431.0	1346.4	1278.6	1210.9	1099.9	956.9	807.7
50°	1914.5	1833.6	1726.4	1604.7	1491.9	1397.2	1325.1	1254.8	1141.3	990.8	825.9
52.5°	2043.1	1950.3	1824.8	1688.8	1565.2	1459.3	1380.9	1308.7	1194.0	1038.5	860.4
55°	2199.9	2086.3	1950.3	1796.6	1664.3	1547.0	1460.5	1375.2	1256.7	1094.9	903.6
57.5°	2439.4	2300.2	2147.2	1972.2	1825.5	1686.9	1583.4	1485.0	1353.9	1178.9	962.6
60°	2872.7	2724.1	2525.3	2313.4	2140.9	1979.1	1827.4	1705.1	1543.9	1344.5	1093.0
62.5°	3493.6	3296.0	3030.8	2734.1	2508.4	2275.1	2103.9	1922.0	1722.0	1506.9	1246.7
65°	3838.5	3598.9	3244.0	2899.7	2609.3	2356.0	2138.4	1927.7	1705.7	1500.0	1282.4
66°	3881.1	3631.5	3262.8	2900.3	2595.6	2335.3	2106.4	1888.2	1661.2	1464.9	1267.4
67.5°	3863.5	3608.3	3228.3	2845.8	2536.0	2256.3	2019.9	1793.5	1567.1	1384.0	1217.2
70°	3575.7	3333.6	2960.5	2589.9	2295.8	2019.9	1794.1	1571.5	1363.9	1207.2	1084.2
72.5°	2969.3	2762.4	2438.1	2147.2	1916.4	1688.8	1497.5	1284.9	1109.3	993.3	920.6
75°	2143.4	2018.0	1722.6	1555.8	1353.3	1202.1	1016.5	890.5	764.4	708.0	695.4
77.5°	1353.9	1185.2	997.7	821.5	675.4	560.0	435.8	370.0	308.5	302.3	365.0
80°	685.4	617.1	475.3	378.8	318.6	257.7	203.8	154.3	107.9	129.8	155.5
82.5°	449.0	374.4	293.5	241.4	210.1	174.3	135.5	94.1	69.0	77.8	106.6
85°	242.7	206.9	166.8	131.7	106.6	95.3	64.0	45.2	44.5	47.7	60.8
87.5°	17.6	17.6	13.8	12.5	15.1	12.5	11.3	11.3	10.7	11.3	15.1
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4
2.5°	757.5	759.4	760.0	763.2	765.1	766.3	767.6	767.6	768.2	770.1	770.7
5°	772.0	775.1	778.9	781.4	782.6	786.4	787.6	787.6	788.9	791.4	793.3
7.5°	780.7	785.1	788.9	790.1	792.6	793.9	795.8	797.0	797.0	799.5	800.8
10°	783.9	786.4	790.1	790.1	792.6	792.6	794.5	795.2	795.2	797.7	799.5
12.5°	783.9	785.1	788.3	788.3	790.1	790.8	793.3	795.2	795.8	798.9	801.4
15°	780.1	781.4	783.9	784.5	788.9	791.4	797.0	800.8	800.8	803.9	805.2
17.5°	769.4	772.6	777.6	782.6	790.8	796.4	803.3	806.4	803.9	802.1	800.2
20°	751.9	757.5	769.4	782.0	796.4	803.9	807.7	804.6	795.8	787.0	781.4
22.5°	734.3	745.6	765.7	784.5	800.8	805.8	803.9	792.6	778.2	767.6	760.0
25°	742.5	755.7	775.1	792.0	802.7	801.4	793.9	778.2	762.5	748.8	736.2
27.5°	776.3	790.8	801.4	807.1	805.8	797.0	785.1	767.6	748.8	730.6	713.0
30°	808.3	815.9	818.4	814.0	803.9	789.5	774.5	754.4	729.3	706.7	686.7
32.5°	822.8	815.2	803.3	791.4	775.1	762.5	741.9	719.9	688.6	661.6	641.5
35°	822.8	792.6	762.5	737.5	713.0	697.3	673.5	644.0	615.2	592.6	576.9
37.5°	804.6	746.9	697.3	656.6	625.8	608.9	573.2	546.8	522.4	514.8	504.8
40°	771.3	686.0	614.6	561.3	522.4	497.3	461.5	443.4	434.0	430.2	428.3
42.5°	726.8	618.3	523.0	457.2	415.1	386.9	363.1	351.8	351.2	350.5	350.5
45°	679.1	545.6	434.0	355.6	318.6	293.5	282.2	277.8	281.6	280.9	281.6
47.5°	649.7	490.4	352.4	269.0	240.8	224.5	218.9	220.7	223.9	222.6	222.6
50°	645.9	462.2	297.9	209.5	188.1	180.0	178.7	178.7	180.6	179.3	178.7
52.5°	659.7	457.8	269.7	180.0	163.0	156.1	154.9	154.3	153.6	149.9	146.7
55°	683.5	467.8	261.5	172.5	154.9	147.4	145.5	144.2	141.7	136.7	131.1
57.5°	731.2	499.2	269.0	176.2	157.4	151.1	149.2	149.2	144.2	136.1	127.9
60°	846.0	578.8	299.8	190.6	169.3	163.0	164.3	163.7	156.1	144.2	131.7
62.5°	993.9	682.9	339.9	210.7	184.4	183.1	189.4	188.1	175.6	157.4	139.2
65°	1062.3	731.8	351.2	215.1	187.5	193.1	205.7	204.4	188.8	163.7	140.5
66°	1063.6	731.8	346.2	211.3	183.1	190.0	202.6	201.9	186.2	161.2	138.0
67.5°	1037.8	711.8	331.7	203.8	174.3	179.3	190.6	190.0	175.6	154.9	132.9
70°	941.3	637.1	294.7	190.6	162.4	159.9	163.7	161.2	151.8	137.3	122.3
72.5°	806.4	534.9	257.1	180.6	154.3	144.2	141.7	139.8	132.3	124.2	114.8
75°	635.2	423.3	225.8	173.1	146.7	133.6	129.2	126.7	121.7	116.0	108.5
77.5°	391.9	302.9	196.9	163.0	141.1	127.9	124.8	121.0	113.5	106.6	101.0
80°	175.0	187.5	161.8	142.4	126.0	114.1	109.1	103.5	95.9	91.6	88.4
82.5°	116.6	121.0	117.3	106.6	95.3	85.9	78.4	78.4	77.1	73.4	72.1
85°	74.6	75.3	72.7	65.8	61.5	55.8	52.7	53.3	55.8	55.2	54.6
87.5°	16.9	16.9	20.1	18.8	21.9	23.2	25.1	27.0	30.7	30.7	32.6
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):

	160°	165°	170°	175°	180°
0°	749.4	749.4	749.4	749.4	749.4
2.5°	771.3	772.6	773.8	772.0	772.6
5°	793.3	792.6	795.8	793.9	795.2
7.5°	800.2	800.8	803.3	803.3	803.9
10°	800.8	802.1	805.2	807.1	808.3
12.5°	803.9	806.4	811.5	812.7	812.7
15°	806.4	807.7	810.8	812.1	813.3
17.5°	797.7	795.2	796.4	797.0	796.4
20°	775.7	773.2	772.6	770.1	771.3
22.5°	751.9	745.0	740.6	735.6	735.6
25°	723.0	712.4	703.6	694.8	696.7
27.5°	696.1	682.3	673.5	667.9	666.6
30°	669.7	655.3	647.2	640.3	640.3
32.5°	625.8	615.8	605.1	600.8	600.1
35°	565.0	558.7	550.0	548.1	544.9
37.5°	496.7	494.8	487.3	486.6	483.5
40°	425.2	426.4	423.9	422.7	420.8
42.5°	353.7	360.0	358.7	358.1	356.8
45°	285.3	289.7	290.3	292.2	295.4
47.5°	224.5	225.8	227.0	226.4	227.0
50°	175.6	172.5	171.8	169.9	171.8
52.5°	141.7	136.7	134.2	131.7	130.4
55°	124.8	119.8	117.3	116.0	114.8
57.5°	120.4	115.4	111.6	109.1	108.5
60°	121.7	114.1	109.1	106.0	105.4
62.5°	124.8	114.8	107.9	104.7	104.1
65°	124.2	113.5	107.2	103.5	102.8
66°	122.3	112.3	106.0	102.8	102.2
67.5°	119.1	110.4	104.7	102.2	101.0
70°	113.5	107.9	103.5	100.3	99.1
72.5°	108.5	104.1	100.3	97.2	96.6
75°	102.8	99.1	95.3	92.8	92.2
77.5°	95.9	92.2	89.7	87.8	87.2
80°	84.7	82.1	79.6	77.1	77.1
82.5°	70.2	68.4	65.8	64.0	63.3
85°	53.9	53.9	52.0	50.2	49.5
87.5°	32.0	31.4	31.4	29.5	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)