

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: P181689

Luminaire Tested: **ICS-E02-LED-E1-T4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181689
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-E02-LED-E1-T4
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5439.9 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

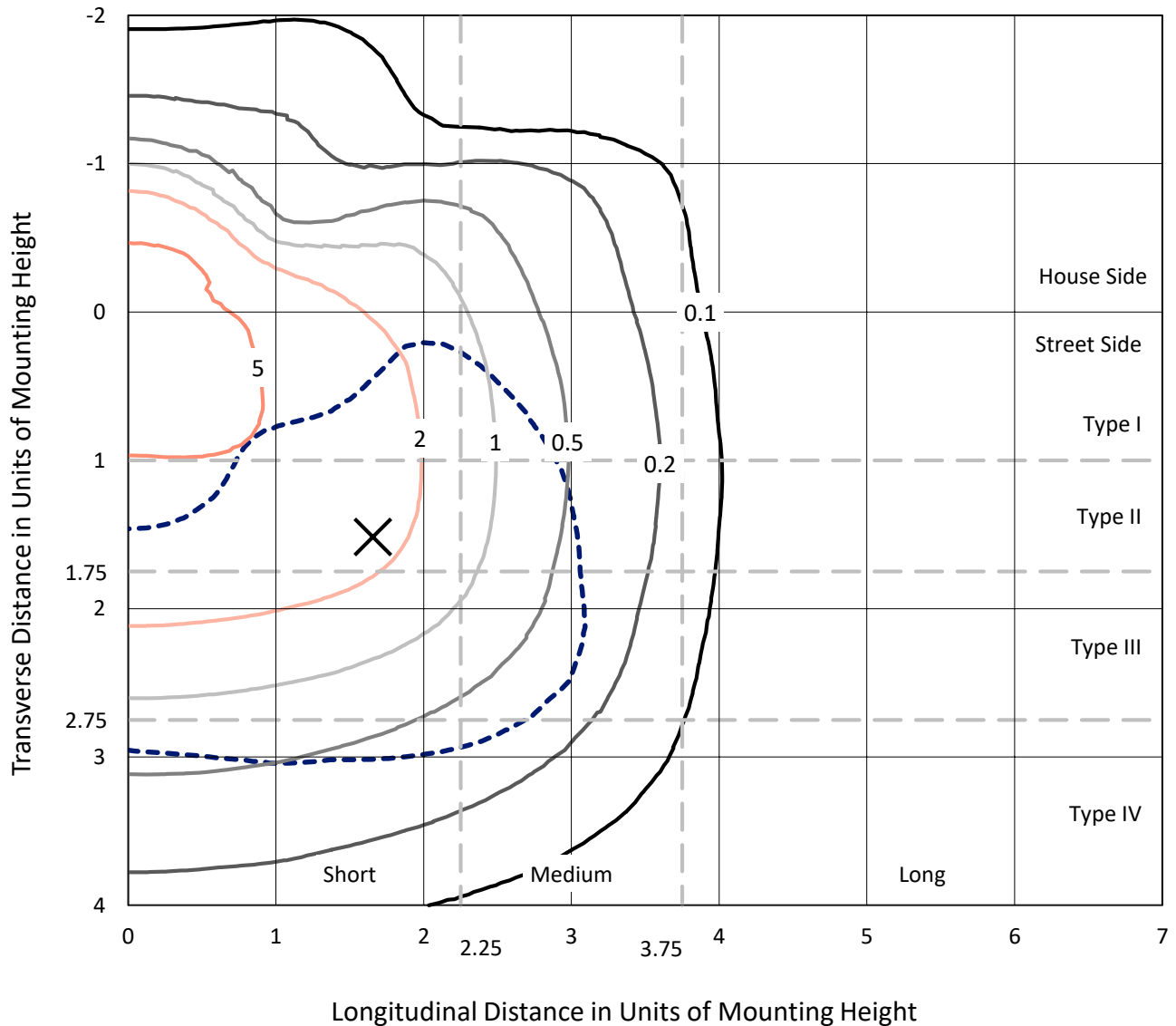
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

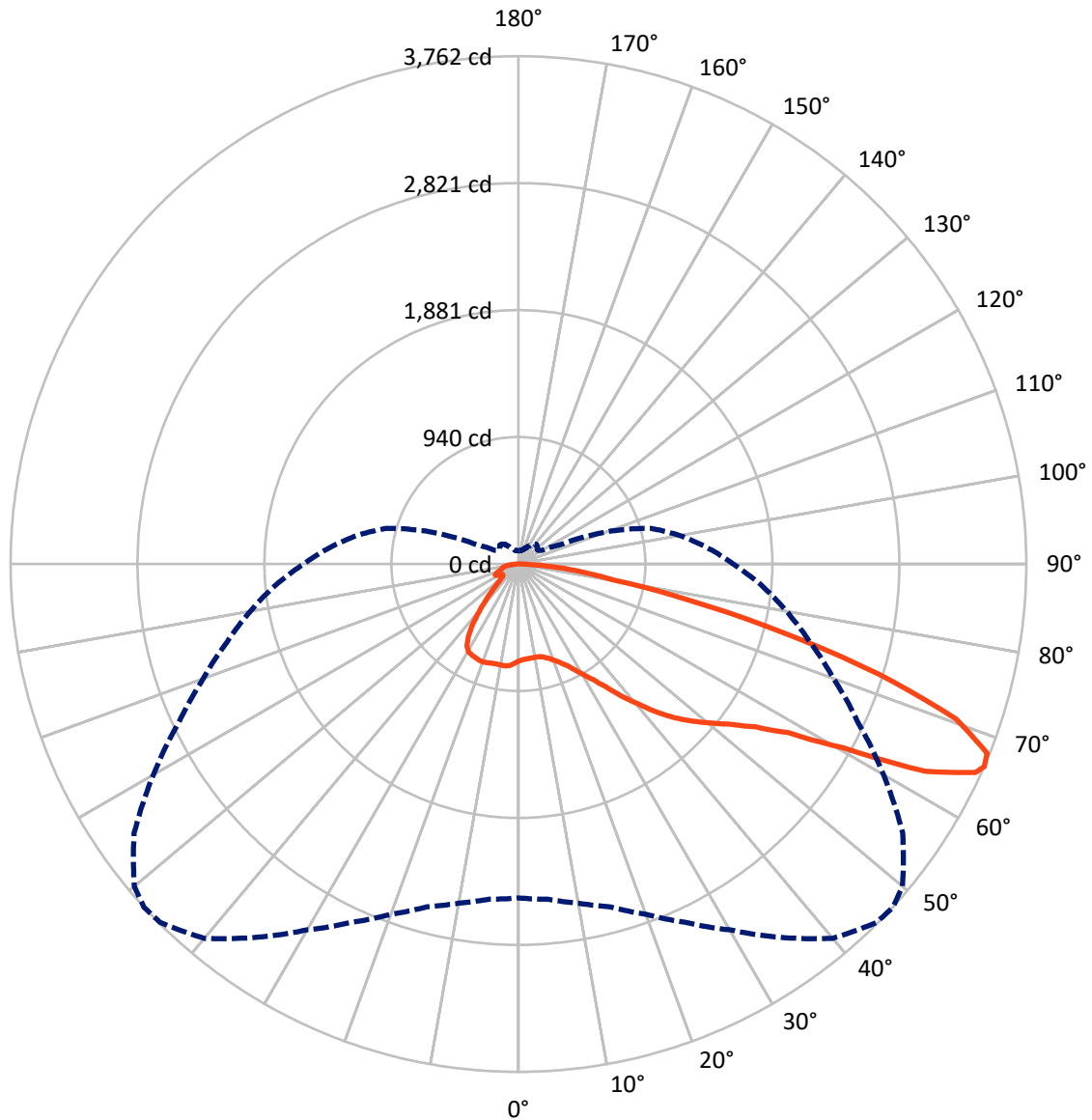
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 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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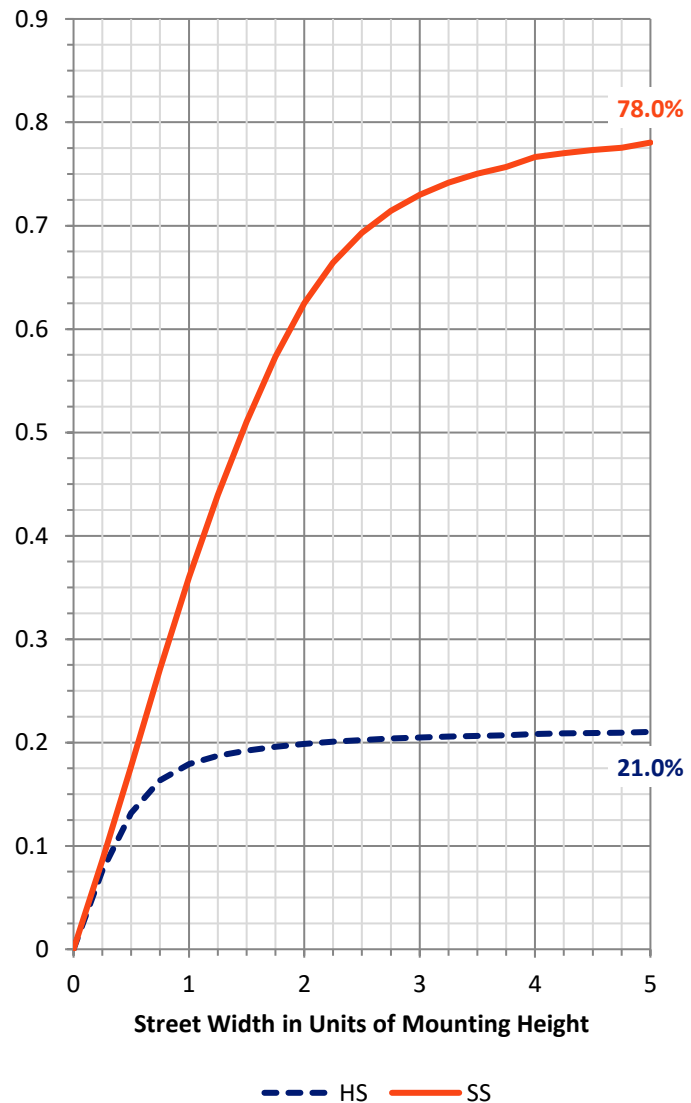
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1160.7	0.0	1160.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	4279.2	0.0	4279.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	5439.9	0.0	5439.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	1.3
10°-20°	211.4	3.9
20°-30°	364.1	6.7
30°-40°	550.9	10.1
40°-50°	714.0	13.1
50°-60°	984.5	18.1
60°-70°	1529.5	28.1
70°-80°	889.4	16.3
80°-90°	126.5	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°	5439.9	100.0
0°-180°	5439.9	100.0

Coefficient of Utilization



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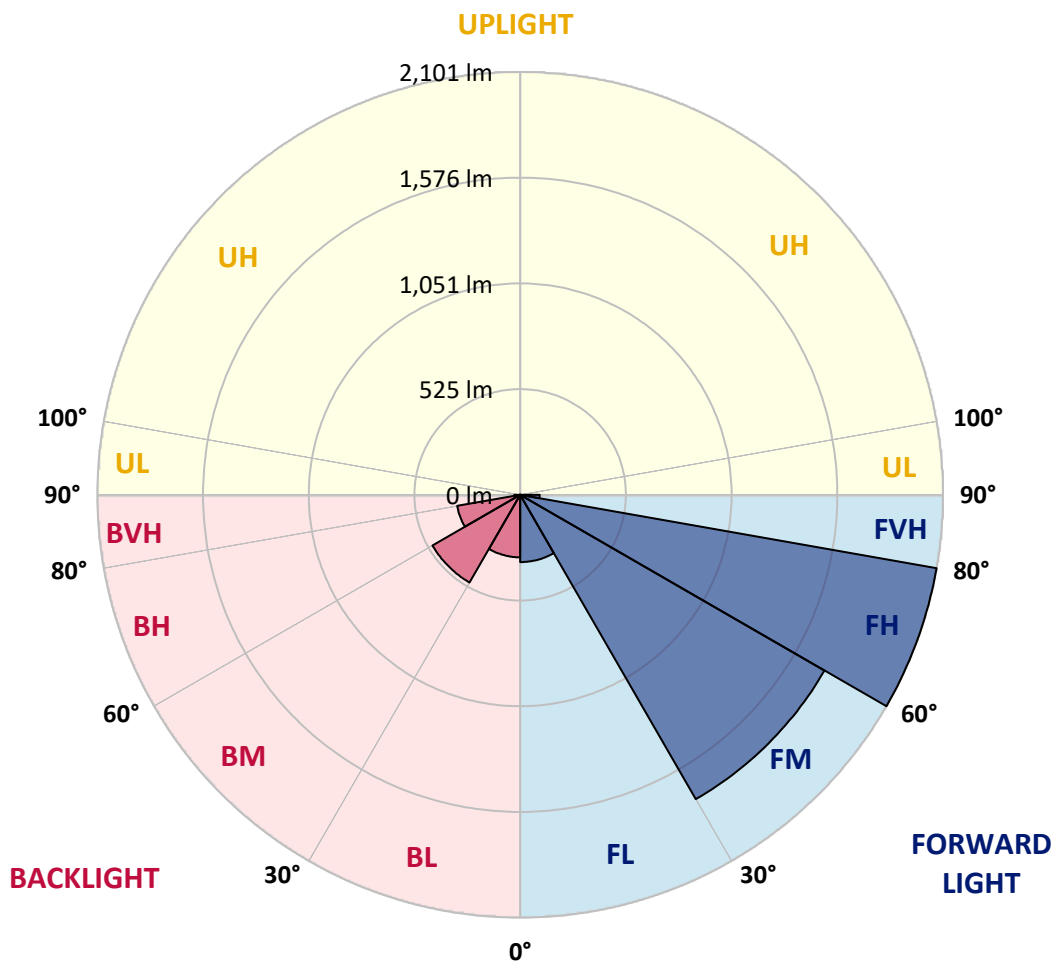
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.4	6.1			
FM	(30°-60°)	1746.2	32.1			
FH	(60°-80°)	2101.5	38.6			G2/5000
FVH	(80°-90°)	97.1	1.8			G1/100
BL	(0°-30°)	310.7	5.7	B1/500		
BM	(30°-60°)	503.2	9.2	B1/1000		
BH	(60°-80°)	317.5	5.8	B1/500		G1/500
BVH	(80°-90°)	29.4	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°	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0
2.5°	703.8	706.2	704.4	705.0	705.0	705.6	705.6	706.2	705.6	707.4	708.6
5°	691.2	692.4	691.8	693.0	694.2	696.6	696.0	699.0	699.6	701.4	704.4
7.5°	686.4	685.2	685.8	687.6	688.8	690.0	691.2	693.6	695.4	699.6	702.0
10°	691.2	690.6	691.2	692.4	692.4	693.0	691.8	694.2	695.4	699.0	701.4
12.5°	711.0	711.0	709.8	709.8	708.6	707.4	704.4	702.6	702.0	702.6	703.8
15°	742.8	741.6	739.2	737.4	735.0	730.8	726.6	723.0	720.6	717.0	715.8
17.5°	774.0	772.2	769.8	767.4	764.4	760.2	753.6	749.4	742.8	738.6	736.2
20°	810.0	806.4	803.4	800.4	794.4	793.2	786.6	779.4	771.6	762.0	760.8
22.5°	856.8	850.8	847.2	845.4	839.4	837.6	826.8	816.6	807.0	794.4	791.4
25°	904.2	898.2	896.4	894.0	889.8	887.4	877.2	865.8	853.2	835.8	832.2
27.5°	950.5	951.1	946.3	948.1	946.9	942.7	932.5	921.1	911.4	891.0	886.8
30°	1008.1	1004.5	1002.1	1005.7	1001.5	1002.1	993.1	987.1	971.5	959.5	951.1
32.5°	1068.1	1067.5	1071.1	1073.5	1072.9	1071.7	1064.5	1058.5	1044.7	1027.3	1023.7
35°	1150.3	1153.9	1156.9	1167.7	1167.7	1175.5	1168.3	1161.1	1144.9	1123.9	1116.7
37.5°	1206.1	1207.3	1219.3	1233.7	1251.7	1268.5	1273.3	1275.1	1268.5	1252.9	1242.1
40°	1257.1	1259.5	1278.7	1300.9	1327.3	1360.3	1380.1	1389.1	1390.9	1383.7	1360.3
42.5°	1308.1	1311.7	1331.5	1363.9	1400.5	1442.5	1477.3	1499.5	1512.1	1512.1	1498.3
45°	1367.5	1372.3	1393.9	1429.3	1471.9	1524.7	1572.7	1615.3	1635.7	1636.9	1623.7
47.5°	1437.7	1441.9	1467.1	1503.1	1546.9	1600.3	1660.9	1709.5	1747.3	1749.7	1738.9
50°	1528.3	1534.3	1555.3	1587.7	1632.7	1686.7	1747.3	1815.1	1854.7	1864.3	1852.9
52.5°	1648.3	1649.5	1666.9	1696.9	1740.7	1792.3	1856.5	1930.3	1982.5	1990.3	1971.7
55°	1813.9	1812.1	1823.5	1855.9	1888.9	1929.1	1995.7	2078.5	2136.7	2148.7	2129.5
57.5°	2038.9	2037.1	2046.7	2054.5	2116.3	2155.3	2220.7	2299.9	2356.3	2391.1	2358.1
60°	2387.5	2385.7	2401.3	2446.9	2493.1	2550.1	2613.7	2708.5	2787.8	2798.0	2765.6
62.5°	2640.1	2649.1	2683.3	2736.7	2830.4	2942.0	3058.4	3183.2	3345.8	3397.4	3381.8
65°	2551.9	2569.9	2617.3	2698.3	2823.2	2977.4	3159.8	3386.0	3603.8	3725.6	3722.0
66°	2472.7	2492.5	2550.7	2628.7	2760.8	2929.4	3128.6	3375.2	3618.8	3753.2	3761.6
67.5°	2328.7	2350.9	2407.9	2500.3	2628.7	2808.2	3022.4	3290.6	3566.0	3722.6	3744.8
70°	2048.5	2073.7	2115.1	2191.3	2317.9	2478.1	2703.7	2943.8	3232.4	3411.8	3438.8
72.5°	1712.5	1734.7	1780.9	1843.3	1947.1	2047.9	2224.9	2401.9	2608.3	2813.0	2793.2
75°	1229.5	1239.1	1266.7	1334.5	1390.3	1480.9	1623.1	1768.3	1909.3	2002.9	2016.1
77.5°	639.0	664.2	703.2	778.2	838.8	920.5	1012.9	1122.1	1225.3	1311.1	1287.7
80°	418.2	429.0	463.8	502.2	546.6	598.8	660.6	701.4	714.6	709.2	714.6
82.5°	241.2	261.0	307.2	336.6	369.6	387.6	436.8	483.6	510.0	477.0	465.0
85°	30.6	39.6	124.8	157.2	180.0	207.0	222.0	250.2	233.4	208.8	254.4
87.5°	6.6	6.0	8.4	18.0	18.6	15.6	29.4	31.2	19.2	9.6	12.0
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°	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0
2.5°	709.8	710.4	711.6	713.4	714.6	715.8	717.0	718.8	720.0	721.2	723.6
5°	706.8	709.2	711.6	714.0	717.0	721.8	724.8	727.2	729.6	734.4	736.2
7.5°	705.0	709.2	712.8	717.0	721.8	726.0	731.4	734.4	738.0	741.0	744.6
10°	703.8	709.8	713.4	719.4	724.8	729.0	735.0	738.6	742.8	746.4	748.2
12.5°	706.2	709.2	712.8	718.8	725.4	731.4	738.0	741.0	744.6	747.6	748.2
15°	716.4	716.4	717.0	721.8	728.4	733.2	738.6	741.6	743.4	745.2	745.2
17.5°	735.0	730.8	727.8	728.4	732.6	735.6	738.6	738.6	737.4	736.8	735.6
20°	756.6	751.2	745.2	741.0	739.8	737.4	735.6	729.6	724.8	720.6	717.6
22.5°	787.8	779.4	771.0	763.2	756.0	747.0	736.8	724.8	713.4	705.6	700.8
25°	826.2	819.6	809.4	797.4	788.4	771.6	758.4	741.0	726.6	716.4	708.0
27.5°	880.8	873.0	863.4	852.6	839.4	820.8	804.6	784.2	766.8	751.8	741.0
30°	948.7	938.5	931.3	918.0	909.0	888.0	871.8	846.6	813.0	789.0	774.0
32.5°	1018.3	1006.9	1000.9	990.7	980.5	967.9	943.3	904.2	861.0	822.0	796.2
35°	1111.3	1099.3	1088.5	1079.5	1064.5	1041.1	1019.5	972.7	913.2	858.6	815.4
37.5°	1228.3	1208.5	1181.5	1158.7	1132.3	1098.7	1065.7	1017.7	949.9	879.0	821.4
40°	1353.1	1318.3	1279.9	1237.3	1191.7	1143.1	1105.3	1056.7	980.5	896.4	817.2
42.5°	1483.3	1428.1	1374.7	1314.7	1251.1	1193.5	1144.3	1090.9	1003.3	901.2	800.4
45°	1612.3	1550.5	1469.5	1390.9	1310.5	1239.1	1183.9	1123.9	1024.3	903.0	778.2
47.5°	1719.1	1655.5	1563.1	1464.7	1369.3	1288.3	1223.5	1158.7	1052.5	915.6	772.8
50°	1831.9	1754.5	1651.9	1535.5	1427.5	1336.9	1267.9	1200.7	1092.1	948.1	790.2
52.5°	1954.9	1866.1	1746.1	1615.9	1497.7	1396.3	1321.3	1252.3	1142.5	993.7	823.2
55°	2104.9	1996.3	1866.1	1719.1	1592.5	1480.3	1397.5	1315.9	1202.5	1047.7	864.6
57.5°	2334.1	2200.9	2054.5	1887.1	1746.7	1614.1	1515.1	1420.9	1295.5	1128.1	921.1
60°	2748.7	2606.5	2416.3	2213.5	2048.5	1893.7	1748.5	1631.5	1477.3	1286.5	1045.9
62.5°	3342.8	3153.8	2900.0	2616.1	2400.1	2176.9	2013.1	1839.1	1647.7	1441.9	1192.9
65°	3672.8	3443.6	3104.0	2774.6	2496.7	2254.3	2046.1	1844.5	1632.1	1435.3	1227.1
66°	3713.6	3474.8	3122.0	2775.2	2483.5	2234.5	2015.5	1806.7	1589.5	1401.7	1212.7
67.5°	3696.8	3452.6	3089.0	2722.9	2426.5	2158.9	1932.7	1716.1	1499.5	1324.3	1164.7
70°	3421.4	3189.8	2832.8	2478.1	2196.7	1932.7	1716.7	1503.7	1305.1	1155.1	1037.5
72.5°	2841.2	2643.1	2332.9	2054.5	1833.7	1615.9	1432.9	1229.5	1061.5	950.5	880.8
75°	2050.9	1930.9	1648.3	1488.7	1294.9	1150.3	972.7	852.0	731.4	677.4	665.4
77.5°	1295.5	1134.1	954.7	786.0	646.2	535.8	417.0	354.0	295.2	289.2	349.2
80°	655.8	590.4	454.8	362.4	304.8	246.6	195.0	147.6	103.2	124.2	148.8
82.5°	429.6	358.2	280.8	231.0	201.0	166.8	129.6	90.0	66.0	74.4	102.0
85°	232.2	198.0	159.6	126.0	102.0	91.2	61.2	43.2	42.6	45.6	58.2
87.5°	16.8	16.8	13.2	12.0	14.4	12.0	10.8	10.8	10.2	10.8	14.4
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°	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0
2.5°	724.8	726.6	727.2	730.2	732.0	733.2	734.4	734.4	735.0	736.8	737.4
5°	738.6	741.6	745.2	747.6	748.8	752.4	753.6	753.6	754.8	757.2	759.0
7.5°	747.0	751.2	754.8	756.0	758.4	759.6	761.4	762.6	762.6	765.0	766.2
10°	750.0	752.4	756.0	756.0	758.4	758.4	760.2	760.8	760.8	763.2	765.0
12.5°	750.0	751.2	754.2	754.2	756.0	756.6	759.0	760.8	761.4	764.4	766.8
15°	746.4	747.6	750.0	750.6	754.8	757.2	762.6	766.2	766.2	769.2	770.4
17.5°	736.2	739.2	744.0	748.8	756.6	762.0	768.6	771.6	769.2	767.4	765.6
20°	719.4	724.8	736.2	748.2	762.0	769.2	772.8	769.8	761.4	753.0	747.6
22.5°	702.6	713.4	732.6	750.6	766.2	771.0	769.2	758.4	744.6	734.4	727.2
25°	710.4	723.0	741.6	757.8	768.0	766.8	759.6	744.6	729.6	716.4	704.4
27.5°	742.8	756.6	766.8	772.2	771.0	762.6	751.2	734.4	716.4	699.0	682.2
30°	773.4	780.6	783.0	778.8	769.2	755.4	741.0	721.8	697.8	676.2	657.0
32.5°	787.2	780.0	768.6	757.2	741.6	729.6	709.8	688.8	658.8	633.0	613.8
35°	787.2	758.4	729.6	705.6	682.2	667.2	644.4	616.2	588.6	567.0	552.0
37.5°	769.8	714.6	667.2	628.2	598.8	582.6	548.4	523.2	499.8	492.6	483.0
40°	738.0	656.4	588.0	537.0	499.8	475.8	441.6	424.2	415.2	411.6	409.8
42.5°	695.4	591.6	500.4	437.4	397.2	370.2	347.4	336.6	336.0	335.4	335.4
45°	649.8	522.0	415.2	340.2	304.8	280.8	270.0	265.8	269.4	268.8	269.4
47.5°	621.6	469.2	337.2	257.4	230.4	214.8	209.4	211.2	214.2	213.0	213.0
50°	618.0	442.2	285.0	200.4	180.0	172.2	171.0	171.0	172.8	171.6	171.0
52.5°	631.2	438.0	258.0	172.2	156.0	149.4	148.2	147.6	147.0	143.4	140.4
55°	654.0	447.6	250.2	165.0	148.2	141.0	139.2	138.0	135.6	130.8	125.4
57.5°	699.6	477.6	257.4	168.6	150.6	144.6	142.8	142.8	138.0	130.2	122.4
60°	809.4	553.8	286.8	182.4	162.0	156.0	157.2	156.6	149.4	138.0	126.0
62.5°	951.1	653.4	325.2	201.6	176.4	175.2	181.2	180.0	168.0	150.6	133.2
65°	1016.5	700.2	336.0	205.8	179.4	184.8	196.8	195.6	180.6	156.6	134.4
66°	1017.7	700.2	331.2	202.2	175.2	181.8	193.8	193.2	178.2	154.2	132.0
67.5°	993.1	681.0	317.4	195.0	166.8	171.6	182.4	181.8	168.0	148.2	127.2
70°	900.6	609.6	282.0	182.4	155.4	153.0	156.6	154.2	145.2	131.4	117.0
72.5°	771.6	511.8	246.0	172.8	147.6	138.0	135.6	133.8	126.6	118.8	109.8
75°	607.8	405.0	216.0	165.6	140.4	127.8	123.6	121.2	116.4	111.0	103.8
77.5°	375.0	289.8	188.4	156.0	135.0	122.4	119.4	115.8	108.6	102.0	96.6
80°	167.4	179.4	154.8	136.2	120.6	109.2	104.4	99.0	91.8	87.6	84.6
82.5°	111.6	115.8	112.2	102.0	91.2	82.2	75.0	75.0	73.8	70.2	69.0
85°	71.4	72.0	69.6	63.0	58.8	53.4	50.4	51.0	53.4	52.8	52.2
87.5°	16.2	16.2	19.2	18.0	21.0	22.2	24.0	25.8	29.4	29.4	31.2
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):

	160°	165°	170°	175°	180°
0°	717.0	717.0	717.0	717.0	717.0
2.5°	738.0	739.2	740.4	738.6	739.2
5°	759.0	758.4	761.4	759.6	760.8
7.5°	765.6	766.2	768.6	768.6	769.2
10°	766.2	767.4	770.4	772.2	773.4
12.5°	769.2	771.6	776.4	777.6	777.6
15°	771.6	772.8	775.8	777.0	778.2
17.5°	763.2	760.8	762.0	762.6	762.0
20°	742.2	739.8	739.2	736.8	738.0
22.5°	719.4	712.8	708.6	703.8	703.8
25°	691.8	681.6	673.2	664.8	666.6
27.5°	666.0	652.8	644.4	639.0	637.8
30°	640.8	627.0	619.2	612.6	612.6
32.5°	598.8	589.2	579.0	574.8	574.2
35°	540.6	534.6	526.2	524.4	521.4
37.5°	475.2	473.4	466.2	465.6	462.6
40°	406.8	408.0	405.6	404.4	402.6
42.5°	338.4	344.4	343.2	342.6	341.4
45°	273.0	277.2	277.8	279.6	282.6
47.5°	214.8	216.0	217.2	216.6	217.2
50°	168.0	165.0	164.4	162.6	164.4
52.5°	135.6	130.8	128.4	126.0	124.8
55°	119.4	114.6	112.2	111.0	109.8
57.5°	115.2	110.4	106.8	104.4	103.8
60°	116.4	109.2	104.4	101.4	100.8
62.5°	119.4	109.8	103.2	100.2	99.6
65°	118.8	108.6	102.6	99.0	98.4
66°	117.0	107.4	101.4	98.4	97.8
67.5°	114.0	105.6	100.2	97.8	96.6
70°	108.6	103.2	99.0	96.0	94.8
72.5°	103.8	99.6	96.0	93.0	92.4
75°	98.4	94.8	91.2	88.8	88.2
77.5°	91.8	88.2	85.8	84.0	83.4
80°	81.0	78.6	76.2	73.8	73.8
82.5°	67.2	65.4	63.0	61.2	60.6
85°	51.6	51.6	49.8	48.0	47.4
87.5°	30.6	30.0	30.0	28.2	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)