

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: P180682

Luminaire Tested: **ICM-F03-LED-E1-SL3-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180682
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)
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-SL3-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6388.6 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

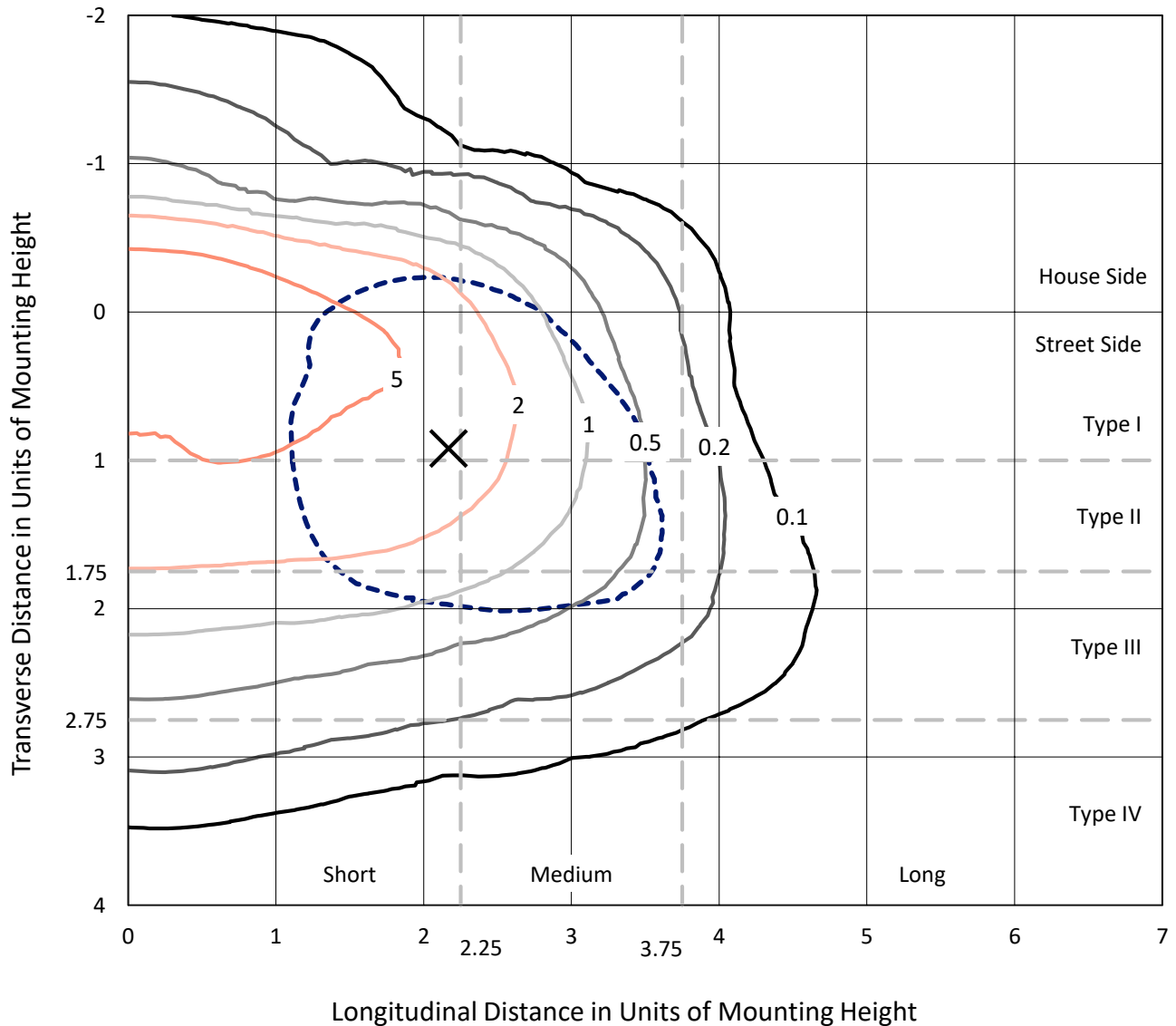
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

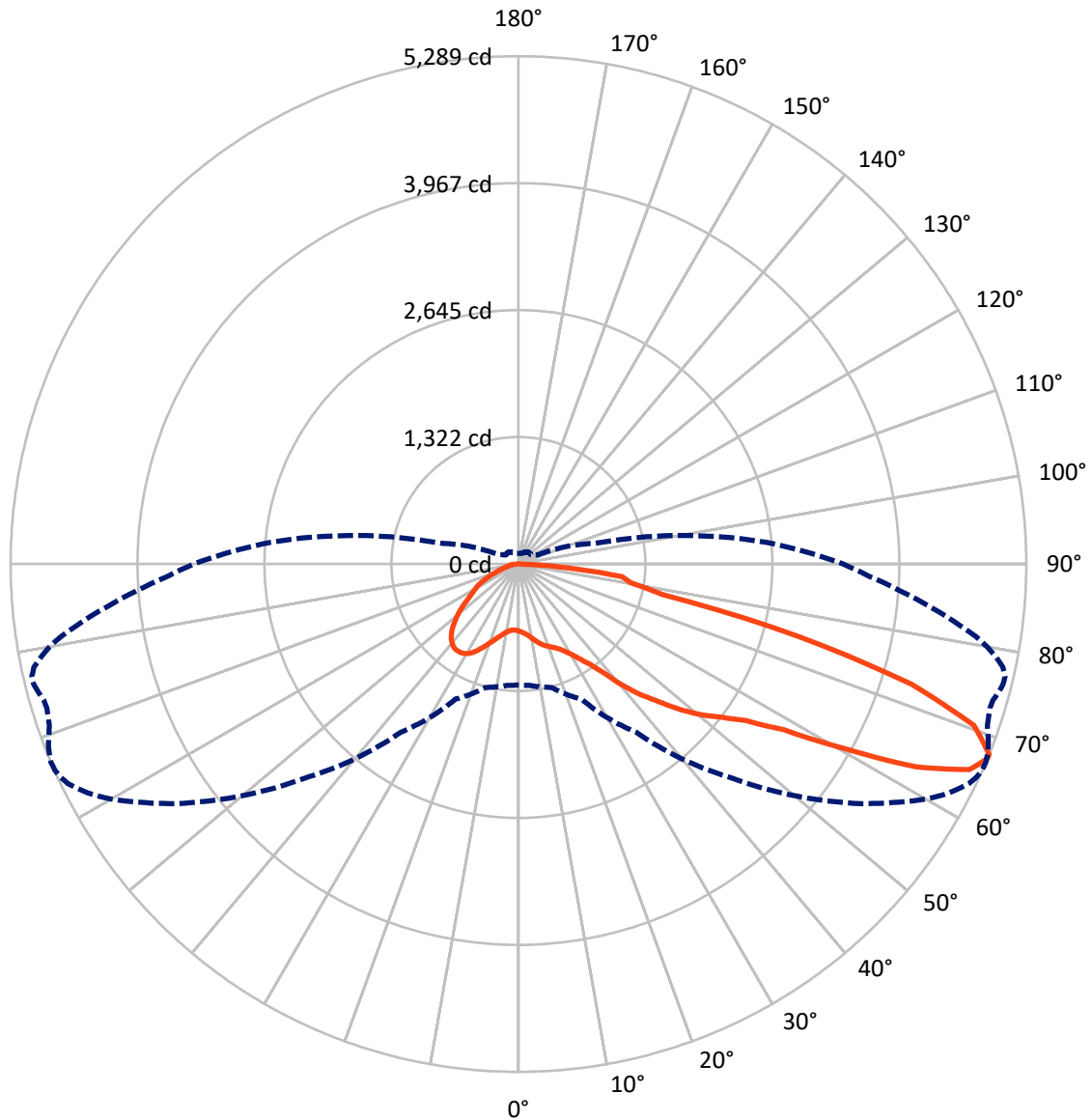
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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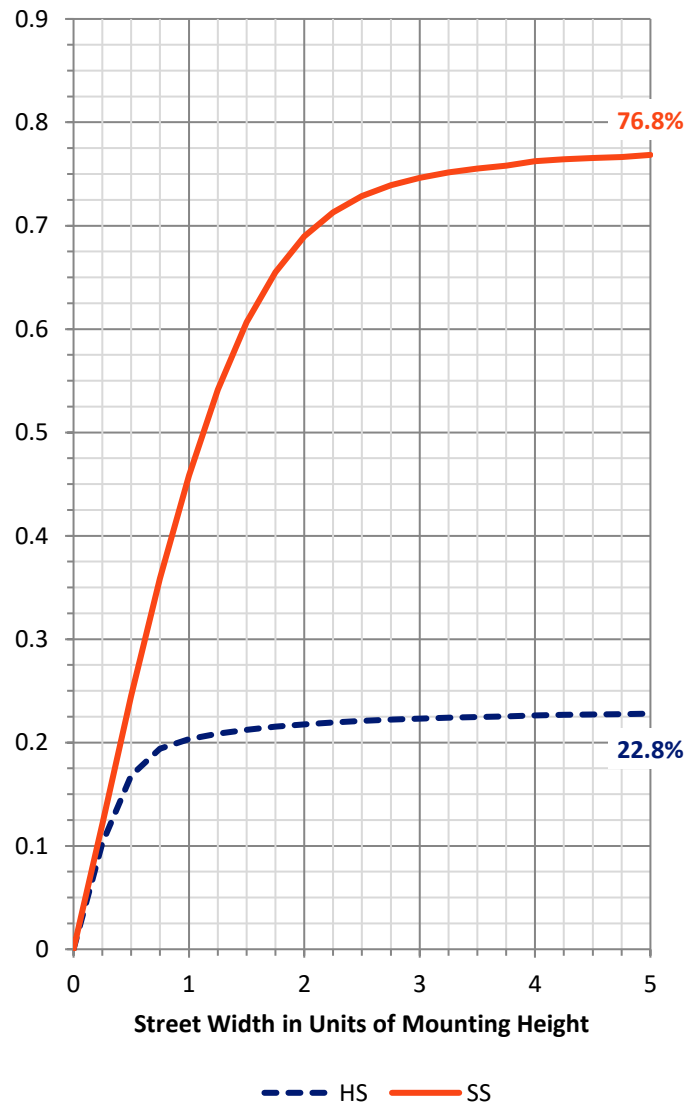
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1474.3	0.0	1474.3
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	4914.4	0.0	4914.4
	% Fixture	76.9	0.0	76.9
Total	Lumens	6388.6	0.0	6388.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	1.1
10°-20°	238.2	3.7
20°-30°	420.7	6.6
30°-40°	603.8	9.5
40°-50°	917.1	14.4
50°-60°	1350.3	21.1
60°-70°	1794.5	28.1
70°-80°	877.9	13.7
80°-90°	116.6	1.8
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°	6388.6	100.0
0°-180°	6388.6	100.0



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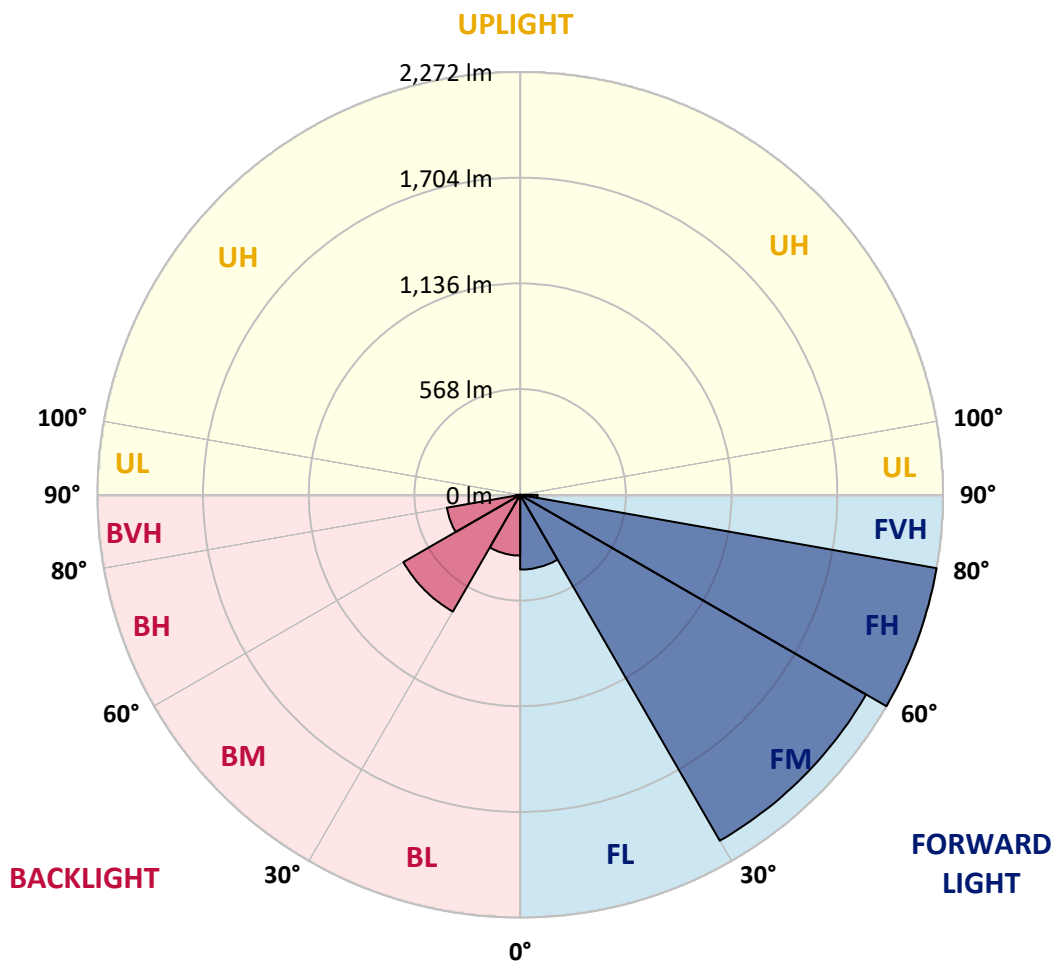
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	401.9	6.3			
FM	(30°-60°)	2146.4	33.6			
FH	(60°-80°)	2272.4	35.6			G2/5000
FVH	(80°-90°)	93.6	1.5			G1/100
BL	(0°-30°)	326.5	5.1	B1/500		
BM	(30°-60°)	724.8	11.3	B1/1000		
BH	(60°-80°)	400.0	6.3	B1/500		G1/500
BVH	(80°-90°)	22.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9
2.5°	730.9	731.5	730.1	729.5	725.2	721.0	718.2	714.7	714.7	714.7	713.3
5°	772.2	769.4	771.5	766.6	758.2	750.5	742.8	736.5	735.1	735.1	732.3
7.5°	822.1	818.5	817.1	810.1	797.5	786.2	770.8	764.6	761.0	759.6	758.2
10°	882.3	882.3	873.2	861.3	844.5	824.8	808.0	796.7	796.1	796.1	789.8
12.5°	944.1	945.5	933.6	921.6	894.2	868.3	848.7	836.1	835.4	832.6	829.0
15°	1000.8	997.4	989.7	972.1	942.0	911.1	886.5	874.0	871.2	868.3	866.2
17.5°	1047.9	1044.4	1034.5	1012.1	980.6	944.1	914.0	900.6	899.2	897.8	895.0
20°	1077.3	1074.5	1060.5	1034.5	1001.6	964.4	932.2	923.1	920.2	920.2	918.8
22.5°	1094.1	1090.0	1069.6	1035.3	1003.0	975.6	949.0	943.4	941.3	942.0	942.0
25°	1102.6	1099.1	1070.3	1021.2	990.3	982.6	971.4	967.9	968.7	969.3	970.7
27.5°	1104.0	1099.1	1065.4	1003.0	974.2	996.0	1003.7	1009.3	1009.3	1012.1	1017.0
30°	1093.5	1087.8	1055.6	988.9	967.3	1022.6	1053.5	1068.2	1073.9	1072.5	1083.6
32.5°	1075.3	1071.7	1045.8	988.9	986.9	1075.3	1130.0	1151.0	1153.8	1155.2	1167.8
35°	1068.9	1068.2	1057.0	1022.6	1047.9	1167.8	1251.3	1267.4	1270.9	1270.9	1280.0
37.5°	1067.5	1071.0	1083.6	1085.8	1155.2	1305.3	1414.7	1439.3	1439.3	1446.2	1446.2
40°	1067.5	1075.3	1122.9	1179.7	1286.3	1484.2	1635.6	1663.7	1663.7	1671.5	1667.2
42.5°	1108.9	1120.1	1198.7	1306.7	1451.9	1668.7	1842.5	1874.2	1876.2	1874.2	1880.5
45°	1190.2	1200.1	1295.4	1450.5	1622.3	1866.4	2040.4	2078.2	2070.5	2075.5	2077.5
47.5°	1298.2	1313.7	1422.4	1607.6	1788.6	2049.5	2262.0	2296.4	2293.6	2295.6	2286.5
50°	1413.3	1429.4	1550.8	1763.3	1954.1	2196.8	2440.1	2491.4	2486.4	2490.0	2494.9
52.5°	1515.0	1524.8	1642.0	1880.5	2079.6	2334.2	2576.9	2640.8	2651.9	2653.4	2656.9
55°	1575.4	1587.3	1694.5	1938.6	2170.8	2468.9	2733.3	2830.2	2851.8	2857.5	2872.9
57.5°	1596.4	1609.0	1706.5	1947.1	2220.6	2595.2	2951.5	3121.9	3140.1	3170.3	3219.4
60°	1595.6	1609.0	1693.9	1928.1	2271.1	2751.6	3290.9	3576.4	3669.0	3699.8	3770.0
62.5°	1530.4	1545.9	1632.1	1870.6	2335.6	2951.5	3795.9	4235.0	4354.3	4410.4	4486.1
65°	1387.4	1398.6	1479.3	1724.8	2317.4	3148.6	4218.2	4766.0	4874.7	4956.8	5092.1
67°	1260.4	1267.4	1330.5	1552.2	2139.3	3155.6	4351.5	4897.8	4992.5	5079.5	5219.1
67.5°	1228.1	1242.9	1292.0	1499.5	2072.7	3115.6	4342.4	4877.5	4974.3	5064.8	5212.0
70°	999.4	1020.6	1045.1	1184.7	1629.3	2621.1	4020.4	4525.4	4610.3	4694.4	4899.9
72.5°	616.6	654.4	659.4	747.7	1060.5	1811.7	3253.0	3816.3	3880.1	3940.4	4150.8
75°	363.4	368.9	386.5	458.0	622.1	1083.0	2182.7	2835.0	2894.0	2923.4	3088.2
77.5°	202.7	208.3	223.1	284.7	478.3	729.5	1270.9	1665.8	1701.6	1738.7	1712.1
80°	84.2	91.9	98.9	115.1	223.7	575.8	874.0	1059.1	1082.2	1104.0	1131.4
82.5°	40.7	43.4	53.3	61.0	81.4	236.4	685.3	918.1	945.5	977.0	1040.8
85°	19.0	21.0	29.5	35.1	39.3	59.6	229.4	446.8	484.7	491.6	504.3
87.5°	1.4	1.4	3.5	4.9	7.0	7.7	23.8	33.7	37.9	34.3	43.4
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9
2.5°	712.7	711.9	710.5	710.5	709.8	709.8	709.8	708.4	708.4	708.4	707.7
5°	731.5	730.9	728.7	728.7	727.4	727.4	725.2	724.6	723.2	723.2	722.4
7.5°	756.1	755.4	752.6	752.6	750.5	749.8	748.4	746.2	746.2	744.8	743.4
10°	789.8	787.6	787.0	783.4	784.2	782.8	781.3	779.3	777.9	776.5	775.1
12.5°	827.6	827.6	824.1	822.1	823.4	822.1	819.3	818.5	816.4	816.4	814.3
15°	863.4	863.4	862.1	859.2	859.9	857.8	857.1	855.7	852.9	853.6	852.9
17.5°	894.2	894.2	892.2	890.8	890.8	888.7	889.4	888.0	886.5	885.9	883.7
20°	918.8	918.8	917.4	916.0	916.7	916.7	914.6	914.6	914.6	913.2	913.2
22.5°	942.7	943.4	943.4	943.4	944.1	944.7	944.1	945.5	944.7	946.1	946.1
25°	974.2	976.4	977.8	977.8	981.2	982.0	982.6	984.8	984.8	986.9	987.5
27.5°	1021.2	1022.6	1028.3	1029.7	1030.3	1035.9	1036.7	1039.4	1042.2	1043.0	1043.6
30°	1085.8	1089.3	1093.5	1096.3	1096.3	1103.3	1106.1	1104.7	1112.4	1114.5	1117.3
32.5°	1172.0	1174.8	1179.1	1181.9	1184.7	1188.2	1188.8	1192.4	1198.7	1204.3	1200.8
35°	1280.8	1287.7	1280.8	1288.5	1290.5	1295.4	1294.1	1298.2	1301.1	1303.2	1302.5
37.5°	1438.5	1435.1	1433.7	1430.8	1426.0	1442.8	1434.3	1433.7	1429.4	1441.4	1433.7
40°	1646.1	1648.3	1650.3	1639.2	1632.8	1632.8	1630.7	1623.0	1619.5	1630.1	1628.7
42.5°	1862.9	1865.0	1855.2	1848.2	1832.0	1830.0	1820.1	1818.1	1814.5	1820.1	1814.5
45°	2060.0	2061.4	2039.6	2043.2	2030.5	2032.7	2017.2	2023.5	2015.1	2020.8	2031.3
47.5°	2280.2	2283.0	2264.1	2271.8	2259.2	2251.5	2250.8	2255.0	2245.9	2251.5	2254.2
50°	2480.1	2476.7	2466.8	2468.9	2463.3	2464.7	2456.3	2464.0	2453.5	2464.7	2463.3
52.5°	2657.6	2653.4	2651.3	2658.2	2653.4	2653.4	2648.5	2651.9	2653.4	2670.2	2673.7
55°	2872.9	2876.4	2879.9	2892.6	2898.2	2889.0	2898.2	2915.7	2916.4	2956.4	2978.2
57.5°	3218.7	3243.3	3255.8	3263.6	3296.6	3293.0	3314.1	3356.2	3360.4	3453.0	3507.0
60°	3821.9	3865.4	3906.7	3884.3	3950.9	3971.3	3983.9	4062.4	4087.0	4174.7	4221.7
62.5°	4583.6	4588.5	4653.1	4632.7	4670.5	4661.4	4676.9	4712.7	4745.0	4817.1	4861.3
65°	5115.3	5138.5	5163.7	5137.7	5137.0	5106.2	5086.5	5085.8	5105.4	5120.9	5170.0
67°	5259.8	5282.9	5289.2	5270.3	5242.9	5203.7	5167.2	5148.2	5135.6	5142.6	5173.5
67.5°	5258.4	5280.1	5287.8	5269.6	5231.7	5198.7	5160.1	5138.5	5121.6	5125.1	5151.0
70°	4959.6	5006.5	5031.8	5037.4	5032.5	4975.0	4942.0	4922.4	4908.3	4874.0	4871.8
72.5°	4202.1	4258.8	4278.5	4310.1	4324.1	4239.2	4203.5	4225.2	4176.1	4067.4	4072.3
75°	3085.4	3089.6	3023.7	3011.1	2964.1	2771.9	2714.4	2661.8	2577.6	2446.4	2323.0
77.5°	1608.3	1607.6	1531.8	1493.3	1437.1	1321.4	1315.8	1221.9	1155.9	1035.9	992.5
80°	1142.6	1160.8	1186.1	1198.7	1179.1	1134.1	1072.5	1005.8	929.3	854.3	764.6
82.5°	1062.6	1073.9	1087.2	1038.1	1010.7	947.5	900.6	803.8	749.8	664.2	573.8
85°	516.9	551.3	524.7	493.8	483.3	378.0	365.4	305.1	277.0	227.9	212.6
87.5°	32.9	40.7	36.5	32.9	28.7	16.1	21.8	15.4	16.1	11.9	10.5
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9
2.5°	707.7	707.0	706.3	705.6	704.9	704.9	704.2	703.5	702.8	701.4	701.4
5°	721.0	721.0	720.4	718.9	718.9	717.5	715.4	714.7	714.7	713.3	711.9
7.5°	742.8	742.1	740.7	740.0	738.6	737.1	735.7	734.3	733.7	731.5	730.9
10°	775.7	774.3	770.8	769.4	768.7	767.4	766.0	764.6	762.4	761.0	760.3
12.5°	812.9	812.2	809.4	810.8	807.3	805.9	804.5	801.0	802.4	799.6	798.1
15°	850.1	850.8	849.4	849.4	846.6	844.5	843.1	840.3	839.5	838.1	836.7
17.5°	883.1	884.5	882.3	880.9	879.5	878.1	875.4	872.6	872.6	869.8	868.3
20°	913.2	914.6	914.0	912.5	910.4	909.7	908.3	906.2	906.2	904.8	902.7
22.5°	947.5	948.3	948.3	947.5	945.5	946.1	944.7	942.7	943.4	940.6	940.6
25°	988.9	990.3	991.7	992.5	991.1	991.7	990.3	988.9	988.3	988.9	988.3
27.5°	1045.8	1047.2	1051.4	1047.9	1051.4	1052.1	1050.0	1047.2	1049.3	1052.8	1050.7
30°	1120.8	1119.4	1125.0	1125.8	1125.0	1125.8	1124.4	1122.2	1123.6	1130.0	1126.4
32.5°	1205.0	1207.8	1209.2	1210.6	1212.8	1215.5	1213.4	1211.3	1214.8	1212.8	1217.6
35°	1306.7	1313.0	1315.1	1313.0	1314.4	1319.4	1318.6	1319.4	1326.3	1319.4	1328.5
37.5°	1435.1	1441.4	1446.2	1443.5	1447.0	1447.0	1452.6	1468.0	1458.2	1470.8	1480.7
40°	1621.6	1631.5	1632.1	1631.5	1635.0	1639.2	1644.8	1661.6	1650.3	1663.7	1672.8
42.5°	1813.8	1825.7	1830.0	1822.9	1830.6	1839.7	1840.5	1855.2	1855.9	1858.0	1862.9
45°	2030.5	2041.0	2049.5	2046.0	2046.7	2058.6	2055.8	2069.8	2059.3	2059.3	2062.1
47.5°	2261.3	2271.1	2276.8	2282.3	2275.4	2285.9	2290.7	2287.9	2275.4	2272.5	2255.6
50°	2471.7	2480.1	2488.6	2504.0	2503.3	2508.2	2511.7	2499.1	2496.3	2480.9	2461.9
52.5°	2694.7	2716.5	2735.5	2767.7	2772.6	2789.4	2783.1	2762.1	2758.6	2733.3	2708.1
55°	3005.5	3067.9	3095.3	3145.0	3178.7	3178.0	3164.0	3160.5	3133.8	3083.4	3053.1
57.5°	3546.3	3643.7	3690.7	3755.3	3765.8	3759.5	3741.2	3709.0	3662.7	3577.8	3523.1
60°	4326.9	4387.2	4441.9	4457.3	4465.1	4453.1	4389.3	4317.8	4227.3	4110.2	4012.7
62.5°	4916.8	4978.4	5019.2	5012.9	4964.5	4903.5	4810.2	4690.3	4563.3	4432.1	4286.3
65°	5217.0	5242.9	5236.6	5187.5	5104.8	4998.2	4862.1	4714.1	4564.7	4409.7	4258.2
67°	5200.9	5201.5	5158.7	5063.4	4957.4	4823.5	4657.2	4495.9	4320.6	4157.9	3977.6
67.5°	5172.0	5169.2	5109.6	5005.1	4890.8	4752.7	4580.1	4413.1	4231.5	4067.4	3880.8
70°	4846.6	4807.4	4672.7	4505.8	4346.5	4159.9	3979.0	3787.6	3582.7	3441.7	3227.1
72.5°	3982.5	3850.0	3617.8	3443.2	3272.7	3028.6	2915.7	2677.9	2534.2	2444.4	2282.3
75°	2306.2	2195.4	2015.8	1852.4	1769.6	1625.1	1556.4	1381.8	1345.3	1343.9	1287.7
77.5°	880.3	768.0	652.3	525.3	446.8	354.9	312.8	279.8	254.6	272.1	246.9
80°	660.0	542.9	424.4	308.7	220.3	162.7	139.5	129.0	122.7	117.9	114.3
82.5°	491.6	387.9	300.9	196.4	137.5	103.8	89.8	84.2	81.4	76.5	72.3
85°	166.2	133.3	105.2	72.9	57.5	47.0	43.4	42.0	40.0	36.5	34.3
87.5°	9.1	8.4	9.1	7.0	8.4	7.0	7.7	7.7	7.7	7.0	7.0
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9
2.5°	700.7	700.7	700.7	699.3	697.2	692.9	688.7	685.3	681.8	679.6	678.2
5°	711.2	709.8	709.1	708.4	703.5	695.1	687.4	680.4	673.3	667.7	665.6
7.5°	730.1	727.4	726.6	724.6	718.2	705.6	694.4	683.2	673.3	665.6	662.1
10°	758.9	758.9	754.7	751.9	744.8	728.0	711.9	697.2	683.8	675.4	673.3
12.5°	795.4	795.4	791.9	789.8	781.3	759.6	740.0	722.4	709.8	701.4	700.7
15°	833.2	832.6	829.8	827.0	817.9	794.7	775.1	759.6	749.1	739.3	736.5
17.5°	866.9	866.9	863.4	860.6	851.4	831.8	814.3	803.1	791.2	770.8	755.4
20°	900.6	901.3	898.5	895.6	888.0	871.2	863.4	852.2	825.6	781.3	744.8
22.5°	937.8	940.6	937.0	934.2	927.9	920.9	918.1	891.4	835.4	764.6	711.2
25°	985.5	990.3	986.1	984.8	981.2	983.4	975.0	913.2	821.3	728.0	661.4
27.5°	1050.7	1050.7	1051.4	1051.4	1050.0	1057.7	1026.8	914.0	790.5	681.0	601.8
30°	1127.2	1131.4	1130.0	1130.0	1135.5	1140.5	1055.6	898.5	751.2	622.8	528.8
32.5°	1219.0	1222.5	1223.9	1217.6	1240.1	1214.8	1066.1	870.4	702.8	550.6	441.9
35°	1329.9	1334.7	1338.2	1339.0	1353.7	1279.4	1060.5	829.0	633.4	460.1	346.5
37.5°	1474.3	1484.2	1491.8	1495.4	1496.1	1334.1	1045.1	774.3	542.9	359.1	258.1
40°	1666.5	1677.0	1674.9	1682.0	1642.0	1366.3	1010.1	695.1	430.7	263.7	199.2
42.5°	1851.6	1853.1	1855.9	1849.6	1768.2	1383.2	960.9	598.3	322.6	197.1	170.4
45°	2058.6	2046.7	2033.3	2023.5	1884.7	1389.5	893.6	480.5	227.9	165.5	157.8
47.5°	2252.9	2236.8	2209.4	2181.3	1988.5	1379.6	807.3	359.8	173.2	151.5	149.4
50°	2443.6	2413.5	2374.9	2342.6	2088.0	1364.9	711.9	259.5	151.5	144.5	142.4
52.5°	2680.0	2629.5	2579.0	2536.9	2217.8	1341.8	611.6	197.1	142.4	138.9	136.1
55°	3004.1	2934.0	2852.6	2793.7	2393.9	1306.7	506.4	167.0	138.1	135.3	131.2
57.5°	3453.0	3347.7	3255.8	3159.7	2634.4	1270.9	415.9	155.0	137.5	133.3	127.6
60°	3911.7	3785.4	3668.3	3530.8	2879.9	1235.2	352.8	153.6	139.5	133.3	124.8
62.5°	4150.2	4019.7	3878.7	3739.1	2985.9	1151.0	309.3	155.7	144.5	135.3	124.8
65°	4095.5	3936.2	3793.1	3650.7	2863.1	991.7	261.6	158.5	154.3	143.8	127.0
67°	3820.5	3654.3	3516.8	3380.7	2589.5	830.4	224.5	161.3	164.8	153.6	131.2
67.5°	3723.7	3557.5	3422.1	3289.5	2508.9	796.7	215.4	162.7	167.0	156.4	132.6
70°	3087.6	2965.5	2821.7	2719.3	2031.3	589.9	176.7	165.5	179.5	172.6	138.9
72.5°	2222.1	2105.6	1997.6	1940.8	1496.1	412.4	148.7	162.7	187.3	181.7	141.7
75°	1181.1	1174.1	1134.9	1162.9	925.9	269.3	131.2	152.2	178.9	166.2	131.9
77.5°	238.5	245.5	288.3	284.1	298.8	150.1	112.2	130.4	138.1	122.0	107.3
80°	110.8	108.7	106.6	108.0	106.0	96.1	91.2	102.4	96.1	78.5	71.5
82.5°	68.7	67.3	65.2	64.6	71.5	76.5	80.0	80.7	63.8	54.7	52.6
85°	32.9	32.9	32.3	33.7	42.0	62.4	67.3	59.6	42.8	39.3	37.2
87.5°	6.3	6.3	7.0	6.3	8.4	14.7	16.8	19.6	16.1	16.8	19.0
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):

	165°	175°	180°
0°	697.9	697.9	697.9
2.5°	676.8	675.4	675.4
5°	662.8	662.1	662.1
7.5°	659.4	660.0	659.4
10°	672.7	671.9	674.7
12.5°	702.1	704.2	703.5
15°	732.9	734.3	734.3
17.5°	742.1	737.1	736.5
20°	718.2	709.1	707.0
22.5°	673.3	656.5	657.2
25°	616.6	596.2	597.6
27.5°	550.6	528.8	528.2
30°	471.4	447.4	435.5
32.5°	375.9	347.2	347.2
35°	282.7	259.5	251.1
37.5°	214.6	201.3	197.1
40°	178.9	172.6	171.2
42.5°	162.7	160.7	159.9
45°	154.3	152.9	152.2
47.5°	146.6	145.9	145.2
50°	141.0	140.3	139.5
52.5°	136.1	134.7	134.0
55°	129.0	129.0	129.0
57.5°	124.8	124.8	124.2
60°	120.7	119.9	119.9
62.5°	117.1	115.7	116.5
65°	115.1	112.9	112.9
67°	113.6	109.4	109.4
67.5°	113.6	108.0	108.0
70°	111.5	102.4	101.0
72.5°	109.4	96.1	94.0
75°	103.8	91.2	89.1
77.5°	89.1	81.4	80.0
80°	68.7	59.6	61.0
82.5°	49.8	42.8	42.0
85°	35.8	30.9	30.9
87.5°	19.0	16.1	16.8
90°	0.0	0.0	0.0

(END OF REPORT)