

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: P181639

Luminaire Tested: **ICM-E03-LED-E1-T4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181639
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: ICM-E03-LED-E1-T4
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8433.6 lumens
Efficiency: N/A
Efficacy: 112.1 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

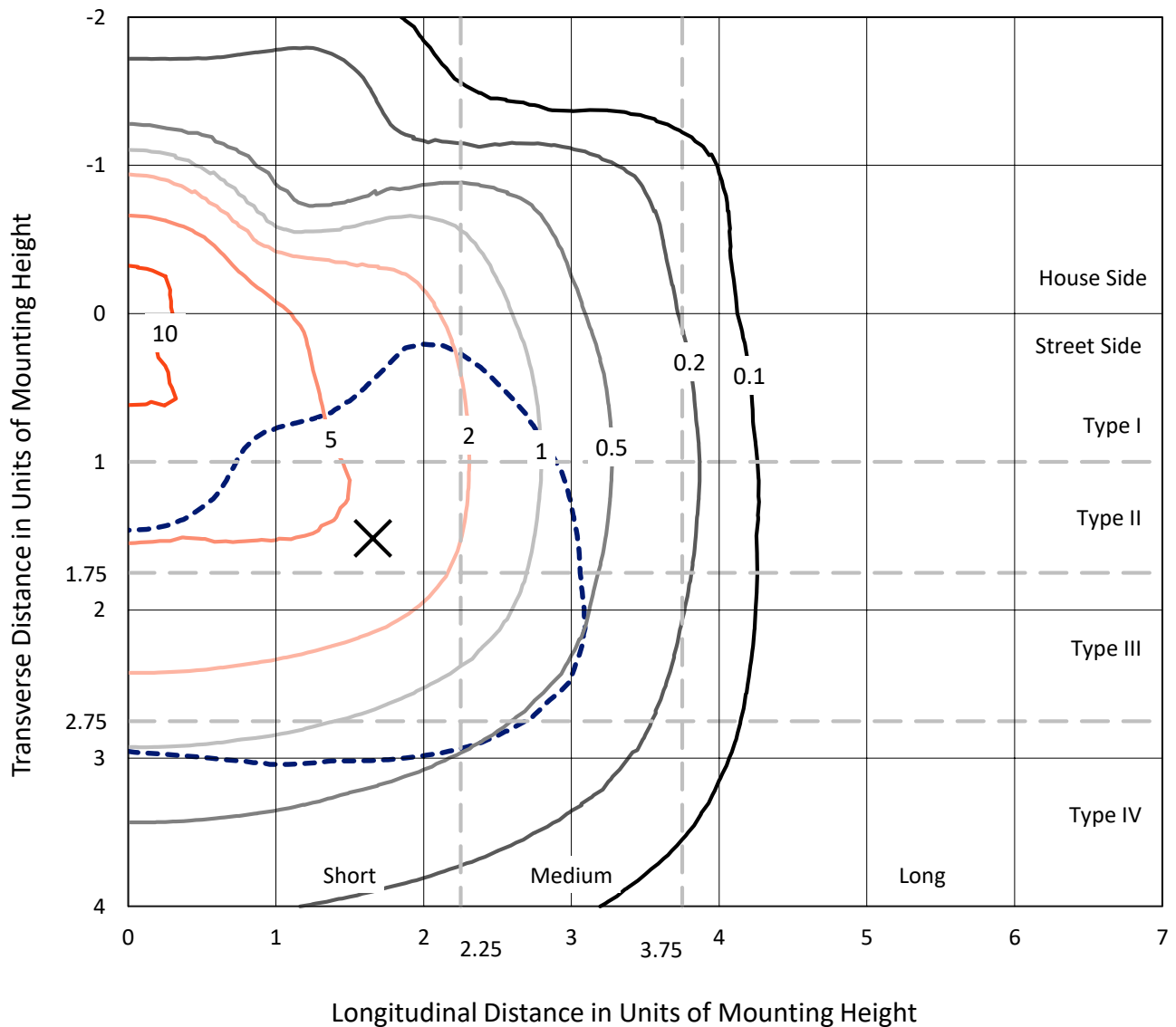
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

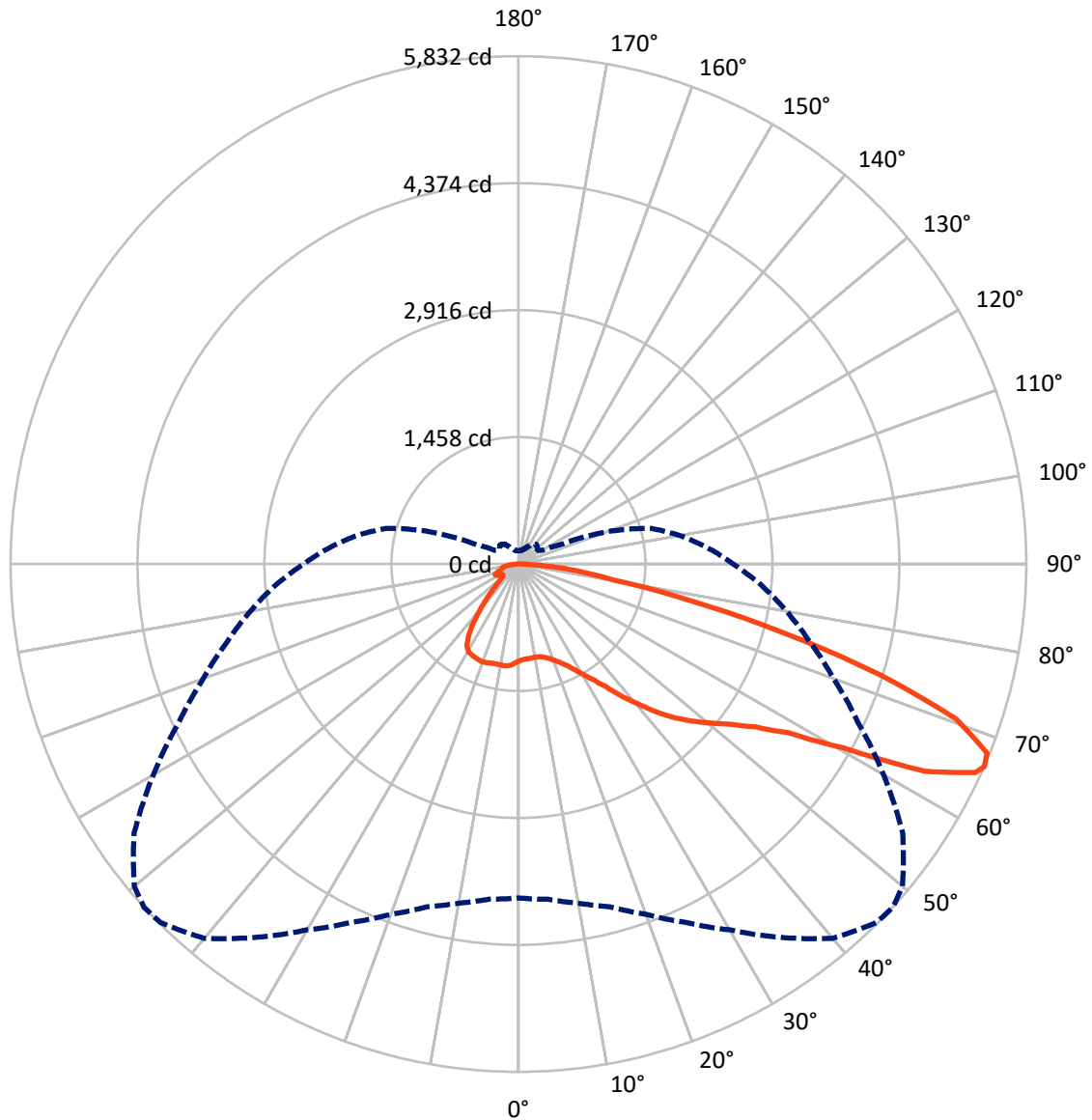
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 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	1799.5	0.0	1799.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	6634.1	0.0	6634.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	8433.6	0.0	8433.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	1.3
10°-20°	327.7	3.9
20°-30°	564.5	6.7
30°-40°	854.1	10.1
40°-50°	1107.0	13.1
50°-60°	1526.2	18.1
60°-70°	2371.2	28.1
70°-80°	1378.9	16.3
80°-90°	196.1	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°	8433.6	100.0
0°-180°	8433.6	100.0

Coefficient of Utilization



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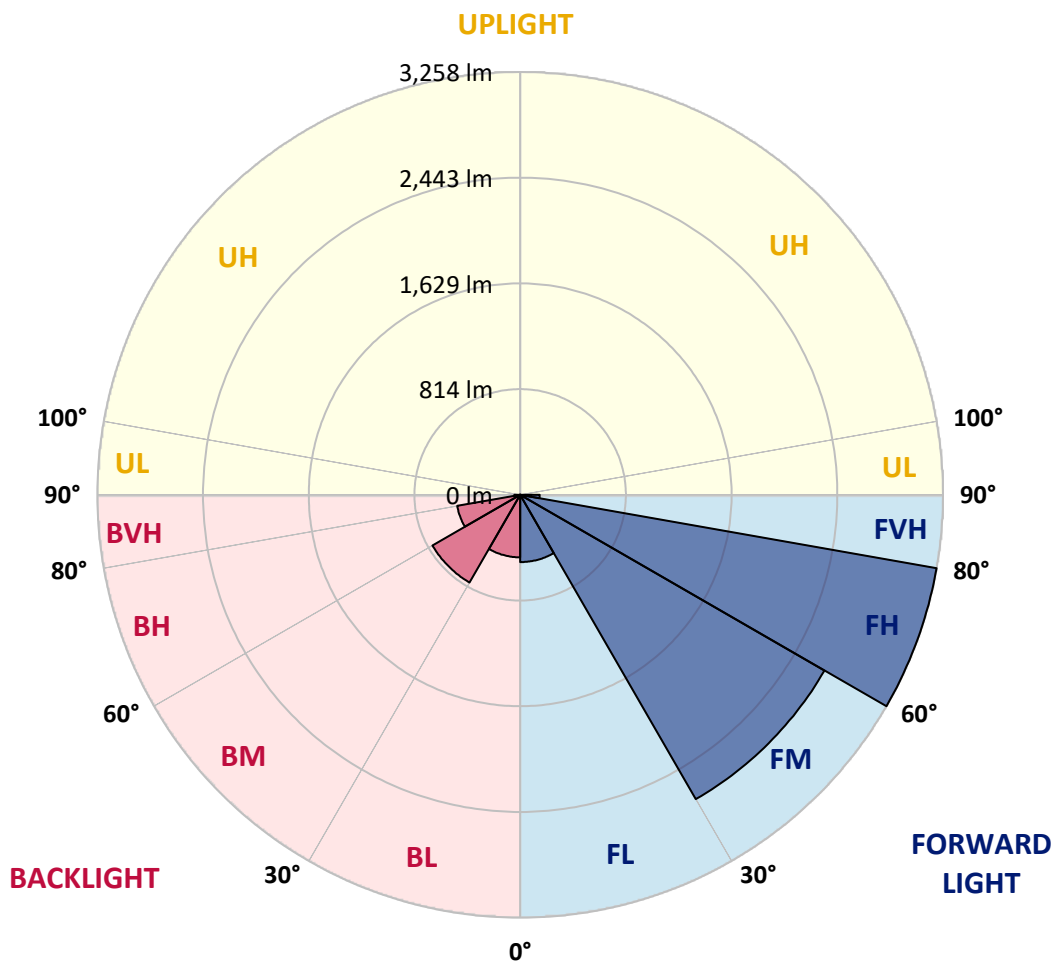
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	518.5	6.1			
FM	(30°-60°)	2707.2	32.1			
FH	(60°-80°)	3257.9	38.6			G2/5000
FVH	(80°-90°)	150.5	1.8			G2/225
BL	(0°-30°)	481.7	5.7	B1/500		
BM	(30°-60°)	780.1	9.2	B1/1000		
BH	(60°-80°)	492.2	5.8	B1/500		G1/500
BVH	(80°-90°)	45.6	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°	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6
2.5°	1091.2	1094.9	1092.1	1093.0	1093.0	1094.0	1094.0	1094.9	1094.0	1096.8	1096.8	1098.6
5°	1071.6	1073.5	1072.6	1074.4	1076.3	1080.0	1079.1	1083.7	1084.7	1087.4	1087.4	1092.1
7.5°	1064.2	1062.3	1063.3	1066.1	1067.9	1069.8	1071.6	1075.4	1078.1	1084.7	1084.7	1088.4
10°	1071.6	1070.7	1071.6	1073.5	1073.5	1074.4	1072.6	1076.3	1078.1	1083.7	1083.7	1087.4
12.5°	1102.3	1102.3	1100.5	1100.5	1098.6	1096.8	1092.1	1089.3	1088.4	1089.3	1089.3	1091.2
15°	1151.6	1149.8	1146.1	1143.3	1139.5	1133.0	1126.5	1120.9	1117.2	1111.6	1111.6	1109.8
17.5°	1200.0	1197.2	1193.5	1189.8	1185.1	1178.6	1168.4	1161.9	1151.6	1145.1	1145.1	1141.4
20°	1255.8	1250.2	1245.6	1240.9	1231.6	1229.8	1219.5	1208.4	1196.3	1181.4	1181.4	1179.5
22.5°	1328.4	1319.1	1313.5	1310.7	1301.4	1298.6	1281.9	1266.1	1251.2	1231.6	1231.6	1227.0
25°	1401.9	1392.6	1389.8	1386.1	1379.5	1375.8	1360.0	1342.3	1322.8	1295.8	1295.8	1290.2
27.5°	1473.5	1474.4	1467.0	1469.8	1467.9	1461.4	1445.6	1427.9	1413.0	1381.4	1381.4	1374.9
30°	1562.8	1557.2	1553.5	1559.1	1552.6	1553.5	1539.5	1530.2	1506.1	1487.5	1487.5	1474.4
32.5°	1655.8	1654.9	1660.5	1664.2	1663.3	1661.4	1650.2	1640.9	1619.5	1592.6	1592.6	1587.0
35°	1783.3	1788.8	1793.5	1810.2	1810.2	1822.3	1811.2	1800.0	1774.9	1742.3	1742.3	1731.2
37.5°	1869.8	1871.6	1890.2	1912.6	1940.5	1966.5	1974.0	1976.8	1966.5	1942.3	1942.3	1925.6
40°	1948.8	1952.6	1982.3	2016.8	2057.7	2108.9	2139.5	2153.5	2156.3	2145.1	2145.1	2108.9
42.5°	2027.9	2033.5	2064.2	2114.4	2171.2	2236.3	2290.2	2324.7	2344.2	2344.2	2344.2	2322.8
45°	2120.0	2127.5	2160.9	2215.8	2281.9	2363.7	2438.2	2504.2	2535.8	2537.7	2537.7	2517.2
47.5°	2228.9	2235.4	2274.4	2330.2	2398.2	2480.9	2574.9	2650.2	2708.9	2712.6	2712.6	2695.8
50°	2369.3	2378.6	2411.2	2461.4	2531.2	2614.9	2708.9	2814.0	2875.4	2890.3	2890.3	2872.6
52.5°	2555.4	2557.2	2584.2	2630.7	2698.6	2778.6	2878.2	2992.6	3073.5	3085.6	3085.6	3056.8
55°	2812.1	2809.3	2827.0	2877.2	2928.4	2990.7	3094.0	3222.3	3312.6	3331.2	3331.2	3301.4
57.5°	3160.9	3158.2	3173.0	3185.1	3281.0	3341.4	3442.8	3565.6	3653.0	3707.0	3707.0	3655.8
60°	3701.4	3698.6	3722.8	3793.5	3865.1	3953.5	4052.1	4199.1	4321.9	4337.7	4337.7	4287.5
62.5°	4093.0	4107.0	4160.0	4242.8	4387.9	4561.0	4741.4	4934.9	5187.0	5267.0	5267.0	5242.8
65°	3956.3	3984.2	4057.7	4183.3	4376.8	4615.8	4898.6	5249.3	5587.0	5775.8	5775.8	5770.3
66°	3833.5	3864.2	3954.4	4075.4	4280.0	4541.4	4850.3	5232.6	5610.3	5818.6	5818.6	5831.7
67.5°	3610.3	3644.7	3733.0	3876.3	4075.4	4353.5	4685.6	5101.4	5528.4	5771.2	5771.2	5805.6
70°	3175.8	3214.9	3279.1	3397.2	3593.5	3841.9	4191.7	4563.7	5011.2	5289.3	5289.3	5331.2
72.5°	2654.9	2689.3	2760.9	2857.7	3018.6	3174.9	3449.3	3723.7	4043.7	4361.0	4361.0	4330.3
75°	1906.1	1920.9	1963.7	2068.8	2155.4	2295.8	2516.3	2741.4	2960.0	3105.1	3105.1	3125.6
77.5°	990.7	1029.8	1090.2	1206.5	1300.5	1427.0	1570.2	1739.5	1899.5	2032.6	2032.6	1996.3
80°	648.4	665.1	719.1	778.6	847.4	928.4	1024.2	1087.4	1107.9	1099.5	1099.5	1107.9
82.5°	374.0	404.7	476.3	521.9	573.0	600.9	677.2	749.8	790.7	739.5	739.5	720.9
85°	47.4	61.4	193.5	243.7	279.1	320.9	344.2	387.9	361.9	323.7	323.7	394.4
87.5°	10.2	9.3	13.0	27.9	28.8	24.2	45.6	48.4	29.8	14.9	14.9	18.6
90°	0.0	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°	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6
2.5°	1100.5	1101.4	1103.3	1106.1	1107.9	1109.8	1111.6	1114.4	1116.3	1118.1	1121.9
5°	1095.8	1099.5	1103.3	1107.0	1111.6	1119.1	1123.7	1127.4	1131.2	1138.6	1141.4
7.5°	1093.0	1099.5	1105.1	1111.6	1119.1	1125.6	1134.0	1138.6	1144.2	1148.8	1154.4
10°	1091.2	1100.5	1106.1	1115.4	1123.7	1130.2	1139.5	1145.1	1151.6	1157.2	1160.0
12.5°	1094.9	1099.5	1105.1	1114.4	1124.7	1134.0	1144.2	1148.8	1154.4	1159.1	1160.0
15°	1110.7	1110.7	1111.6	1119.1	1129.3	1136.8	1145.1	1149.8	1152.6	1155.4	1155.4
17.5°	1139.5	1133.0	1128.4	1129.3	1135.8	1140.5	1145.1	1145.1	1143.3	1142.3	1140.5
20°	1173.0	1164.7	1155.4	1148.8	1147.0	1143.3	1140.5	1131.2	1123.7	1117.2	1112.6
22.5°	1221.4	1208.4	1195.4	1183.3	1172.1	1158.1	1142.3	1123.7	1106.1	1094.0	1086.5
25°	1280.9	1270.7	1254.9	1236.3	1222.3	1196.3	1175.8	1148.8	1126.5	1110.7	1097.7
27.5°	1365.6	1353.5	1338.6	1321.9	1301.4	1272.6	1247.4	1215.8	1188.8	1165.6	1148.8
30°	1470.7	1454.9	1443.7	1423.3	1409.3	1376.8	1351.6	1312.6	1260.5	1223.3	1200.0
32.5°	1578.6	1560.9	1551.6	1535.8	1520.0	1500.5	1462.3	1401.9	1334.9	1274.4	1234.4
35°	1722.8	1704.2	1687.5	1673.5	1650.2	1614.0	1580.5	1507.9	1415.8	1331.2	1264.2
37.5°	1904.2	1873.5	1831.6	1796.3	1755.4	1703.3	1652.1	1577.7	1472.6	1362.8	1273.5
40°	2097.7	2043.7	1984.2	1918.2	1847.5	1772.1	1713.5	1638.1	1520.0	1389.8	1267.0
42.5°	2299.5	2214.0	2131.2	2038.2	1939.5	1850.2	1774.0	1691.2	1555.4	1397.2	1240.9
45°	2499.6	2403.7	2278.2	2156.3	2031.6	1920.9	1835.4	1742.3	1587.9	1400.0	1206.5
47.5°	2665.1	2566.5	2423.3	2270.7	2122.8	1997.2	1896.8	1796.3	1631.6	1419.5	1198.1
50°	2840.0	2720.0	2560.9	2380.5	2213.0	2072.6	1965.6	1861.4	1693.0	1469.8	1225.1
52.5°	3030.7	2893.0	2707.0	2505.1	2321.9	2164.7	2048.4	1941.4	1771.2	1540.5	1276.3
55°	3263.3	3094.9	2893.0	2665.1	2468.9	2294.9	2166.5	2040.0	1864.2	1624.2	1340.5
57.5°	3618.6	3412.1	3185.1	2925.6	2707.9	2502.3	2348.9	2202.8	2008.4	1748.8	1427.9
60°	4261.4	4041.0	3746.1	3431.6	3175.8	2935.8	2710.7	2529.3	2290.2	1994.4	1621.4
62.5°	5182.4	4889.3	4495.8	4055.8	3721.0	3374.9	3120.9	2851.2	2554.4	2235.4	1849.3
65°	5694.0	5338.6	4812.1	4301.4	3870.7	3494.9	3172.1	2859.6	2530.2	2225.1	1902.3
66°	5757.2	5387.0	4840.0	4302.4	3850.3	3464.2	3124.7	2800.9	2464.2	2173.0	1880.0
67.5°	5731.2	5352.6	4788.9	4221.4	3761.9	3347.0	2996.3	2660.5	2324.7	2053.0	1805.6
70°	5304.2	4945.1	4391.7	3841.9	3405.6	2996.3	2661.4	2331.2	2023.3	1790.7	1608.4
72.5°	4404.7	4097.7	3616.8	3185.1	2842.8	2505.1	2221.4	1906.1	1645.6	1473.5	1365.6
75°	3179.6	2993.5	2555.4	2307.9	2007.5	1783.3	1507.9	1320.9	1134.0	1050.2	1031.6
77.5°	2008.4	1758.2	1480.0	1218.6	1001.9	830.7	646.5	548.8	457.7	448.4	541.4
80°	1016.8	915.4	705.1	561.9	472.6	382.3	302.3	228.8	160.0	192.6	230.7
82.5°	666.1	555.4	435.4	358.1	311.6	258.6	200.9	139.5	102.3	115.3	158.1
85°	360.0	307.0	247.4	195.4	158.1	141.4	94.9	67.0	66.0	70.7	90.2
87.5°	26.0	26.0	20.5	18.6	22.3	18.6	16.7	16.7	15.8	16.7	22.3
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6
2.5°	1123.7	1126.5	1127.4	1132.1	1134.9	1136.8	1138.6	1138.6	1139.5	1142.3	1143.3
5°	1145.1	1149.8	1155.4	1159.1	1160.9	1166.5	1168.4	1168.4	1170.2	1174.0	1176.8
7.5°	1158.1	1164.7	1170.2	1172.1	1175.8	1177.7	1180.5	1182.3	1182.3	1186.1	1187.9
10°	1162.8	1166.5	1172.1	1172.1	1175.8	1175.8	1178.6	1179.5	1179.5	1183.3	1186.1
12.5°	1162.8	1164.7	1169.3	1169.3	1172.1	1173.0	1176.8	1179.5	1180.5	1185.1	1188.8
15°	1157.2	1159.1	1162.8	1163.7	1170.2	1174.0	1182.3	1187.9	1187.9	1192.6	1194.4
17.5°	1141.4	1146.1	1153.5	1160.9	1173.0	1181.4	1191.6	1196.3	1192.6	1189.8	1187.0
20°	1115.4	1123.7	1141.4	1160.0	1181.4	1192.6	1198.1	1193.5	1180.5	1167.4	1159.1
22.5°	1089.3	1106.1	1135.8	1163.7	1187.9	1195.4	1192.6	1175.8	1154.4	1138.6	1127.4
25°	1101.4	1120.9	1149.8	1174.9	1190.7	1188.8	1177.7	1154.4	1131.2	1110.7	1092.1
27.5°	1151.6	1173.0	1188.8	1197.2	1195.4	1182.3	1164.7	1138.6	1110.7	1083.7	1057.7
30°	1199.1	1210.2	1214.0	1207.4	1192.6	1171.2	1148.8	1119.1	1081.9	1048.4	1018.6
32.5°	1220.5	1209.3	1191.6	1174.0	1149.8	1131.2	1100.5	1067.9	1021.4	981.4	951.6
35°	1220.5	1175.8	1131.2	1094.0	1057.7	1034.4	999.1	955.4	912.6	879.1	855.8
37.5°	1193.5	1107.9	1034.4	974.0	928.4	903.3	850.2	811.2	774.9	763.7	748.8
40°	1144.2	1017.7	911.6	832.6	774.9	737.7	684.7	657.7	643.7	638.1	635.4
42.5°	1078.1	917.2	775.8	678.1	615.8	574.0	538.6	521.9	520.9	520.0	520.0
45°	1007.4	809.3	643.7	527.4	472.6	435.4	418.6	412.1	417.7	416.7	417.7
47.5°	963.7	727.4	522.8	399.1	357.2	333.0	324.7	327.4	332.1	330.2	330.2
50°	958.1	685.6	441.9	310.7	279.1	267.0	265.1	265.1	267.9	266.0	265.1
52.5°	978.6	679.1	400.0	267.0	241.9	231.6	229.8	228.8	227.9	222.3	217.7
55°	1014.0	694.0	387.9	255.8	229.8	218.6	215.8	214.0	210.2	202.8	194.4
57.5°	1084.7	740.5	399.1	261.4	233.5	224.2	221.4	221.4	214.0	201.9	189.8
60°	1254.9	858.6	444.7	282.8	251.2	241.9	243.7	242.8	231.6	214.0	195.4
62.5°	1474.4	1013.0	504.2	312.6	273.5	271.6	280.9	279.1	260.5	233.5	206.5
65°	1575.8	1085.6	520.9	319.1	278.1	286.5	305.1	303.3	280.0	242.8	208.4
66°	1577.7	1085.6	513.5	313.5	271.6	281.9	300.5	299.5	276.3	239.1	204.7
67.5°	1539.5	1055.8	492.1	302.3	258.6	266.0	282.8	281.9	260.5	229.8	197.2
70°	1396.3	945.1	437.2	282.8	240.9	237.2	242.8	239.1	225.1	203.7	181.4
72.5°	1196.3	793.5	381.4	267.9	228.8	214.0	210.2	207.4	196.3	184.2	170.2
75°	942.3	627.9	334.9	256.7	217.7	198.1	191.6	187.9	180.5	172.1	160.9
77.5°	581.4	449.3	292.1	241.9	209.3	189.8	185.1	179.5	168.4	158.1	149.8
80°	259.5	278.1	240.0	211.2	187.0	169.3	161.9	153.5	142.3	135.8	131.2
82.5°	173.0	179.5	174.0	158.1	141.4	127.4	116.3	116.3	114.4	108.8	107.0
85°	110.7	111.6	107.9	97.7	91.2	82.8	78.1	79.1	82.8	81.9	80.9
87.5°	25.1	25.1	29.8	27.9	32.6	34.4	37.2	40.0	45.6	45.6	48.4
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):

	160°	165°	170°	175°	180°
0°	1111.6	1111.6	1111.6	1111.6	1111.6
2.5°	1144.2	1146.1	1147.9	1145.1	1146.1
5°	1176.8	1175.8	1180.5	1177.7	1179.5
7.5°	1187.0	1187.9	1191.6	1191.6	1192.6
10°	1187.9	1189.8	1194.4	1197.2	1199.1
12.5°	1192.6	1196.3	1203.7	1205.6	1205.6
15°	1196.3	1198.1	1202.8	1204.7	1206.5
17.5°	1183.3	1179.5	1181.4	1182.3	1181.4
20°	1150.7	1147.0	1146.1	1142.3	1144.2
22.5°	1115.4	1105.1	1098.6	1091.2	1091.2
25°	1072.6	1056.8	1043.7	1030.7	1033.5
27.5°	1032.6	1012.1	999.1	990.7	988.8
30°	993.5	972.1	960.0	949.8	949.8
32.5°	928.4	913.5	897.7	891.2	890.2
35°	838.1	828.8	815.8	813.0	808.4
37.5°	736.7	734.0	722.8	721.9	717.2
40°	630.7	632.6	628.8	627.0	624.2
42.5°	524.7	534.0	532.1	531.2	529.3
45°	423.3	429.8	430.7	433.5	438.1
47.5°	333.0	334.9	336.7	335.8	336.7
50°	260.5	255.8	254.9	252.1	254.9
52.5°	210.2	202.8	199.1	195.4	193.5
55°	185.1	177.7	174.0	172.1	170.2
57.5°	178.6	171.2	165.6	161.9	160.9
60°	180.5	169.3	161.9	157.2	156.3
62.5°	185.1	170.2	160.0	155.3	154.4
65°	184.2	168.4	159.1	153.5	152.6
66°	181.4	166.5	157.2	152.6	151.6
67.5°	176.7	163.7	155.3	151.6	149.8
70°	168.4	160.0	153.5	148.8	147.0
72.5°	160.9	154.4	148.8	144.2	143.3
75°	152.6	147.0	141.4	137.7	136.7
77.5°	142.3	136.7	133.0	130.2	129.3
80°	125.6	121.9	118.1	114.4	114.4
82.5°	104.2	101.4	97.7	94.9	94.0
85°	80.0	80.0	77.2	74.4	73.5
87.5°	47.4	46.5	46.5	43.7	43.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)