

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: P180736

Luminaire Tested: **ICS-E03-LED-E1-SL3-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180736
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: ICS-E03-LED-E1-SL3-8030
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6919.1 lumens
Efficiency: N/A
Efficacy: 92.0 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): 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

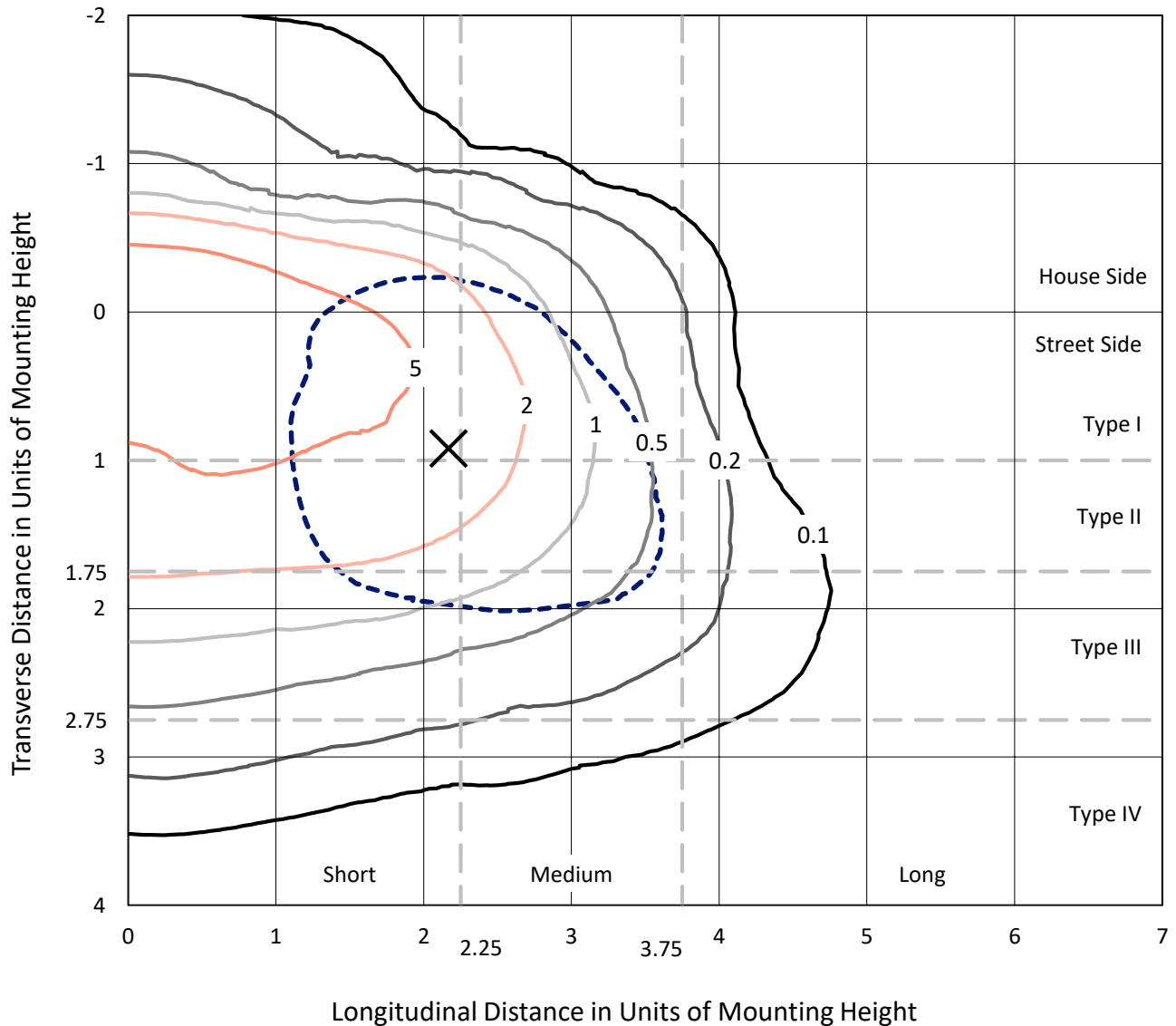


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

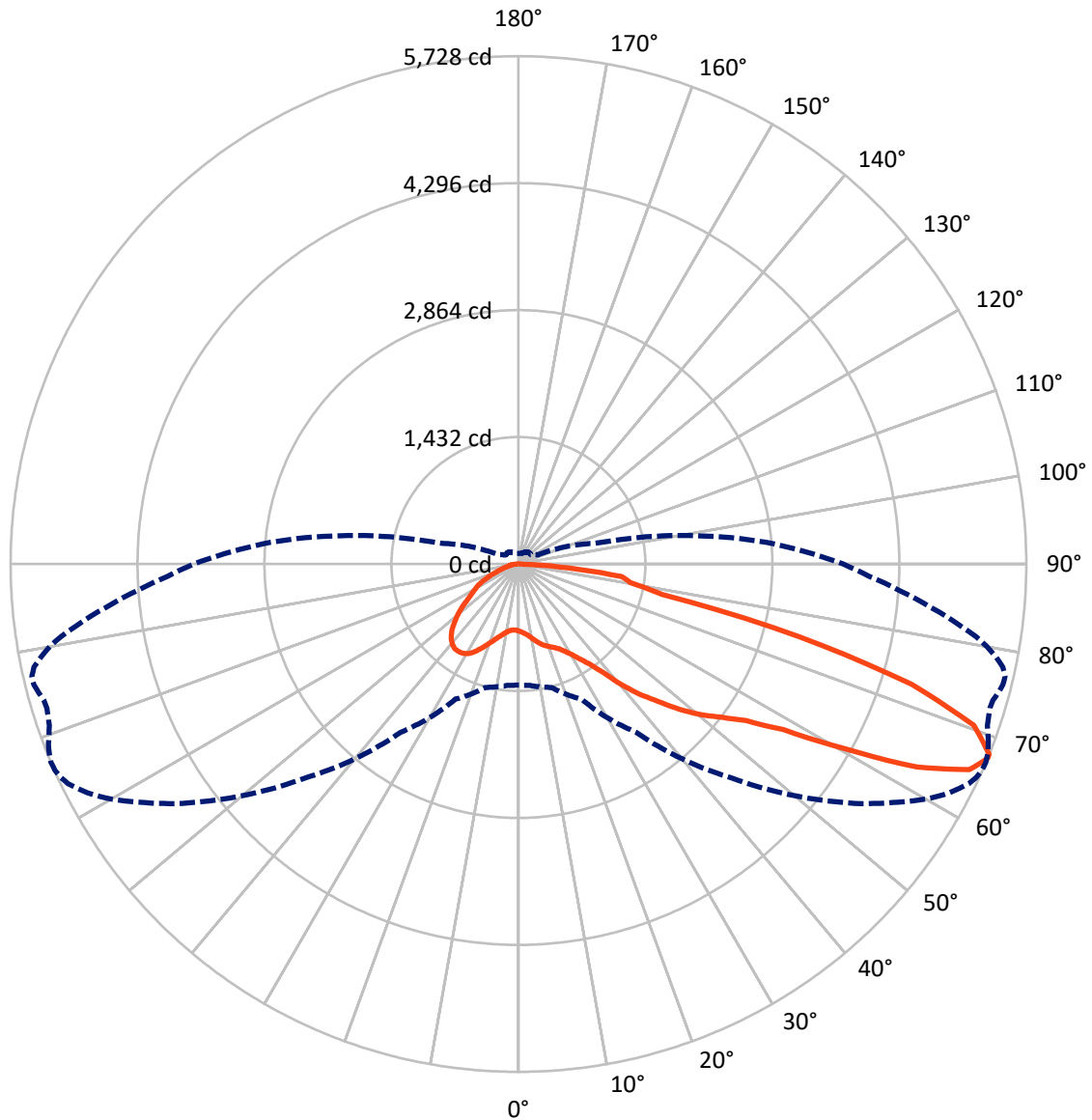


Based on 10 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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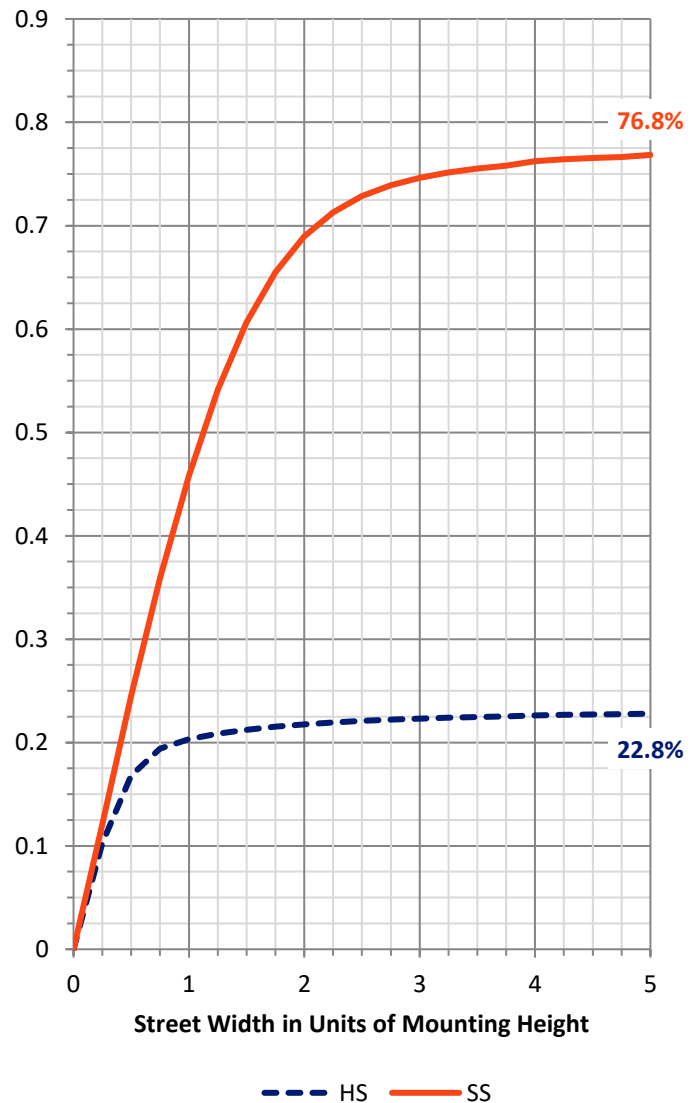
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1596.7	0.0	1596.7
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	5322.4	0.0	5322.4
	% Fixture	76.9	0.0	76.9
Total	Lumens	6919.1	0.0	6919.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	1.1
10°-20°	258.0	3.7
20°-30°	455.6	6.6
30°-40°	654.0	9.5
40°-50°	993.3	14.4
50°-60°	1462.4	21.1
60°-70°	1943.5	28.1
70°-80°	950.8	13.7
80°-90°	126.3	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°	6919.1	100.0
0°-180°	6919.1	100.0



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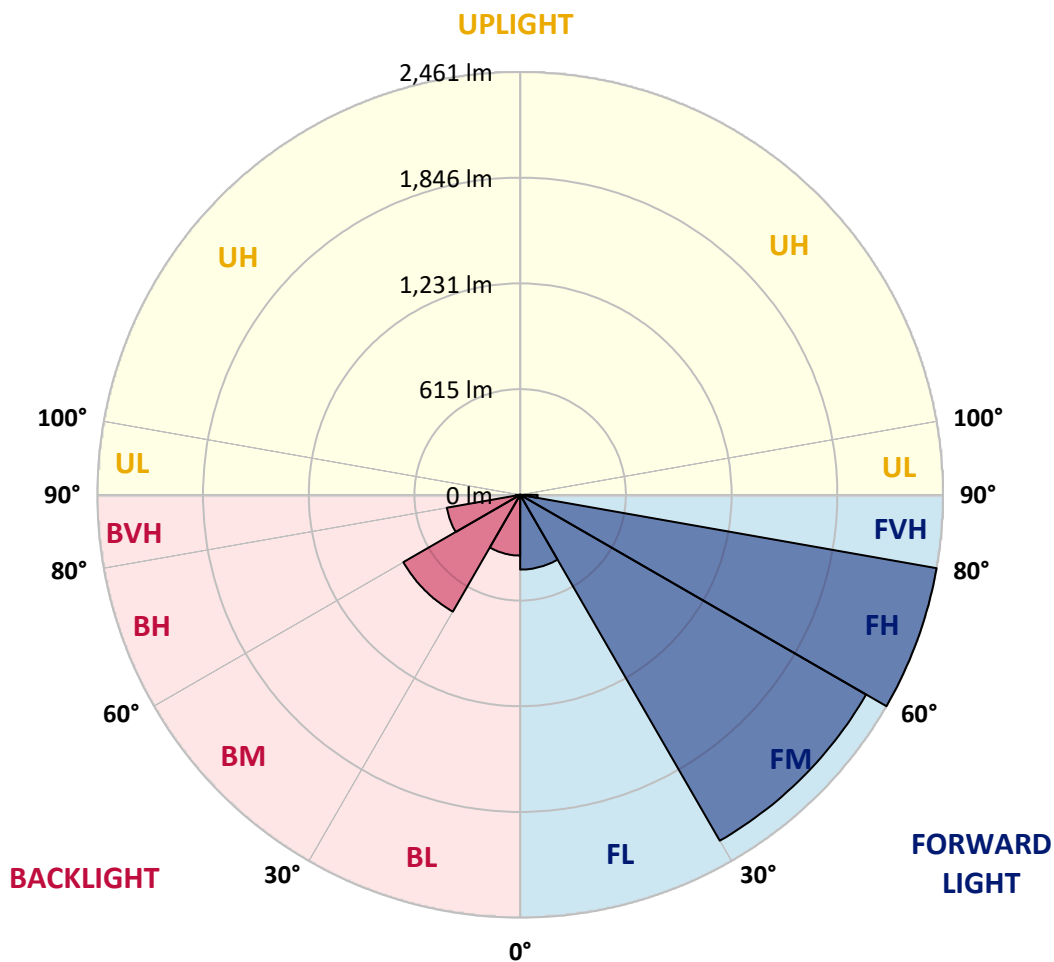
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	435.3	6.3			
FM	(30°-60°)	2324.7	33.6			
FH	(60°-80°)	2461.1	35.6			G2/5000
FVH	(80°-90°)	101.4	1.5			G2/225
BL	(0°-30°)	353.6	5.1	B1/500		
BM	(30°-60°)	785.0	11.3	B1/1000		
BH	(60°-80°)	433.2	6.3	B1/500		G1/500
BVH	(80°-90°)	24.8	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°	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8
2.5°	791.5	792.3	790.8	790.0	785.5	780.9	777.9	774.1	774.1	774.1	772.5
5°	836.4	833.3	835.6	830.3	821.2	812.8	804.5	797.6	796.1	796.1	793.1
7.5°	890.3	886.5	885.0	877.4	863.7	851.5	834.8	828.0	824.2	822.7	821.2
10°	955.6	955.6	945.7	932.8	914.6	893.3	875.1	862.9	862.2	862.2	855.3
12.5°	1022.5	1024.0	1011.1	998.2	968.5	940.4	919.2	905.5	904.7	901.7	897.9
15°	1084.0	1080.2	1071.8	1052.9	1020.2	986.8	960.2	946.5	943.5	940.4	938.1
17.5°	1134.9	1131.1	1120.5	1096.2	1062.0	1022.5	989.8	975.4	973.8	972.3	969.3
20°	1166.8	1163.8	1148.6	1120.5	1084.8	1044.5	1009.6	999.7	996.6	996.6	995.1
22.5°	1185.0	1180.5	1158.4	1121.2	1086.3	1056.6	1027.8	1021.7	1019.4	1020.2	1020.2
25°	1194.1	1190.3	1159.2	1106.0	1072.6	1064.2	1052.1	1048.3	1049.1	1049.8	1051.3
27.5°	1195.7	1190.3	1153.9	1086.3	1055.1	1078.7	1087.0	1093.1	1093.1	1096.2	1101.5
30°	1184.3	1178.2	1143.2	1071.1	1047.5	1107.5	1141.0	1156.9	1163.0	1161.5	1173.6
32.5°	1164.5	1160.7	1132.6	1071.1	1068.8	1164.5	1223.8	1246.6	1249.6	1251.1	1264.8
35°	1157.7	1156.9	1144.8	1107.5	1134.9	1264.8	1355.2	1372.7	1376.5	1376.5	1386.3
37.5°	1156.2	1160.0	1173.6	1175.9	1251.1	1413.7	1532.2	1558.8	1558.8	1566.4	1566.4
40°	1156.2	1164.5	1216.2	1277.7	1393.2	1607.4	1771.5	1801.8	1801.8	1810.2	1805.6
42.5°	1201.0	1213.1	1298.2	1415.2	1572.4	1807.2	1995.6	2029.7	2032.0	2029.7	2036.6
45°	1289.1	1299.7	1403.0	1570.9	1757.0	2021.4	2209.8	2250.8	2242.4	2247.8	2250.0
47.5°	1406.1	1422.8	1540.5	1741.1	1937.1	2219.6	2449.8	2487.0	2484.0	2486.3	2476.4
50°	1530.7	1548.1	1679.5	1909.7	2116.3	2379.2	2642.8	2698.2	2692.9	2696.7	2702.0
52.5°	1640.8	1651.4	1778.3	2036.6	2252.3	2528.1	2790.9	2860.0	2872.2	2873.7	2877.5
55°	1706.1	1719.0	1835.3	2099.6	2351.1	2673.9	2960.3	3065.1	3088.7	3094.7	3111.5
57.5°	1728.9	1742.6	1848.2	2108.7	2405.0	2810.6	3196.5	3381.1	3400.9	3433.5	3486.7
60°	1728.2	1742.6	1834.5	2088.2	2459.7	2980.0	3564.2	3873.4	3973.6	4007.1	4083.0
62.5°	1657.5	1674.2	1767.7	2025.9	2529.6	3196.5	4111.1	4586.7	4715.8	4776.6	4858.6
65°	1502.6	1514.7	1602.1	1867.9	2509.8	3410.0	4568.4	5161.7	5279.5	5368.3	5514.9
67°	1365.1	1372.7	1441.0	1681.1	2316.9	3417.6	4712.8	5304.5	5407.1	5501.3	5652.4
67.5°	1330.1	1346.1	1399.2	1624.1	2244.7	3374.3	4702.9	5282.5	5387.3	5485.3	5644.8
70°	1082.5	1105.3	1131.9	1283.0	1764.6	2838.7	4354.2	4901.2	4993.1	5084.2	5306.8
72.5°	667.7	708.7	714.1	809.8	1148.6	1962.1	3523.2	4133.2	4202.3	4267.6	4495.5
75°	393.5	399.6	418.6	496.0	673.8	1172.9	2364.0	3070.4	3134.2	3166.2	3344.7
77.5°	219.5	225.6	241.6	308.4	518.1	790.0	1376.5	1804.1	1842.9	1883.1	1854.3
80°	91.2	99.5	107.1	124.6	242.3	623.7	946.5	1147.0	1172.1	1195.7	1225.3
82.5°	44.1	47.1	57.7	66.1	88.1	256.0	742.2	994.4	1024.0	1058.2	1127.3
85°	20.5	22.8	31.9	38.0	42.5	64.6	248.4	483.9	524.9	532.5	546.2
87.5°	1.5	1.5	3.8	5.3	7.6	8.4	25.8	36.5	41.0	37.2	47.1
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8
2.5°	771.8	771.0	769.5	769.5	768.7	768.7	768.7	767.2	767.2	767.2	766.5
5°	792.3	791.5	789.3	789.3	787.7	787.7	785.5	784.7	783.2	783.2	782.4
7.5°	818.9	818.1	815.1	815.1	812.8	812.0	810.5	808.2	808.2	806.7	805.2
10°	855.3	853.1	852.3	848.5	849.3	847.8	846.2	844.0	842.4	840.9	839.4
12.5°	896.4	896.4	892.6	890.3	891.8	890.3	887.3	886.5	884.2	884.2	881.9
15°	935.1	935.1	933.6	930.6	931.3	929.0	928.3	926.8	923.7	924.5	923.7
17.5°	968.5	968.5	966.3	964.7	964.7	962.5	963.2	961.7	960.2	959.4	957.1
20°	995.1	995.1	993.6	992.1	992.8	992.8	990.6	990.6	990.6	989.0	989.0
22.5°	1020.9	1021.7	1021.7	1021.7	1022.5	1023.2	1022.5	1024.0	1023.2	1024.7	1024.7
25°	1055.1	1057.4	1058.9	1058.9	1062.7	1063.5	1064.2	1066.5	1066.5	1068.8	1069.6
27.5°	1106.0	1107.5	1113.6	1115.1	1115.9	1122.0	1122.7	1125.8	1128.8	1129.6	1130.3
30°	1175.9	1179.7	1184.3	1187.3	1187.3	1194.9	1197.9	1196.4	1204.8	1207.1	1210.1
32.5°	1269.3	1272.4	1276.9	1280.0	1283.0	1286.8	1287.6	1291.4	1298.2	1304.3	1300.5
35°	1387.1	1394.7	1387.1	1395.4	1397.7	1403.0	1401.5	1406.1	1409.1	1411.4	1410.6
37.5°	1558.0	1554.2	1552.7	1549.7	1544.3	1562.6	1553.4	1552.7	1548.1	1561.0	1552.7
40°	1782.9	1785.1	1787.4	1775.3	1768.4	1768.4	1766.1	1757.8	1754.0	1765.4	1763.9
42.5°	2017.6	2019.9	2009.2	2001.6	1984.2	1981.9	1971.2	1969.0	1965.2	1971.2	1965.2
45°	2231.0	2232.6	2209.0	2212.8	2199.1	2201.4	2184.7	2191.5	2182.4	2188.5	2199.9
47.5°	2469.6	2472.6	2452.1	2460.5	2446.8	2438.4	2437.7	2442.2	2432.3	2438.4	2441.5
50°	2686.1	2682.3	2671.6	2673.9	2667.8	2669.4	2660.2	2668.6	2657.2	2669.4	2667.8
52.5°	2878.3	2873.7	2871.4	2879.0	2873.7	2873.7	2868.4	2872.2	2873.7	2891.9	2895.7
55°	3111.5	3115.3	3119.1	3132.7	3138.8	3128.9	3138.8	3157.8	3158.6	3201.9	3225.4
57.5°	3486.0	3512.5	3526.2	3534.6	3570.3	3566.5	3589.3	3634.8	3639.4	3739.7	3798.2
60°	4139.2	4186.3	4231.2	4206.8	4279.0	4301.0	4314.7	4399.8	4426.4	4521.3	4572.2
62.5°	4964.2	4969.5	5039.4	5017.4	5058.4	5048.5	5065.2	5104.0	5138.9	5217.2	5265.0
65°	5540.0	5565.1	5592.4	5564.3	5563.6	5530.1	5508.9	5508.1	5529.4	5546.1	5599.3
67°	5696.5	5721.6	5728.4	5707.9	5678.3	5635.7	5596.2	5575.7	5562.0	5569.6	5603.1
67.5°	5695.0	5718.5	5726.9	5707.1	5666.1	5630.4	5588.6	5565.1	5546.8	5550.6	5578.7
70°	5371.4	5422.3	5449.6	5455.7	5450.4	5388.1	5352.4	5331.1	5315.9	5278.7	5276.4
72.5°	4551.0	4612.5	4633.8	4667.9	4683.1	4591.2	4552.5	4576.0	4522.9	4405.1	4410.4
75°	3341.6	3346.2	3274.8	3261.1	3210.2	3002.1	2939.8	2882.8	2791.7	2649.6	2515.9
77.5°	1741.8	1741.1	1659.0	1617.3	1556.5	1431.1	1425.1	1323.3	1251.9	1122.0	1074.9
80°	1237.4	1257.2	1284.5	1298.2	1276.9	1228.3	1161.5	1089.3	1006.5	925.2	828.0
82.5°	1150.8	1163.0	1177.4	1124.3	1094.6	1026.3	975.4	870.5	812.0	719.4	621.4
85°	559.8	597.1	568.2	534.8	523.4	409.4	395.8	330.4	300.1	246.9	230.2
87.5°	35.7	44.1	39.5	35.7	31.1	17.5	23.5	16.7	17.5	12.9	11.4
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8
2.5°	766.5	765.7	765.0	764.2	763.4	763.4	762.7	761.9	761.2	759.6	759.6
5°	780.9	780.9	780.1	778.6	778.6	777.1	774.8	774.1	774.1	772.5	771.0
7.5°	804.5	803.7	802.2	801.4	799.9	798.4	796.9	795.3	794.6	792.3	791.5
10°	840.2	838.6	834.8	833.3	832.6	831.0	829.5	828.0	825.7	824.2	823.4
12.5°	880.4	879.7	876.6	878.1	874.3	872.8	871.3	867.5	869.0	866.0	864.5
15°	920.7	921.4	919.9	919.9	916.9	914.6	913.1	910.0	909.3	907.8	906.2
17.5°	956.4	957.9	955.6	954.1	952.6	951.1	948.0	945.0	945.0	941.9	940.4
20°	989.0	990.6	989.8	988.3	986.0	985.2	983.7	981.4	981.4	979.9	977.6
22.5°	1026.3	1027.0	1027.0	1026.3	1024.0	1024.7	1023.2	1020.9	1021.7	1018.7	1018.7
25°	1071.1	1072.6	1074.1	1074.9	1073.4	1074.1	1072.6	1071.1	1070.3	1071.1	1070.3
27.5°	1132.6	1134.1	1138.7	1134.9	1138.7	1139.4	1137.2	1134.1	1136.4	1140.2	1137.9
30°	1213.9	1212.4	1218.5	1219.2	1218.5	1219.2	1217.7	1215.4	1216.9	1223.8	1220.0
32.5°	1305.0	1308.1	1309.6	1311.1	1313.4	1316.4	1314.2	1311.9	1315.7	1313.4	1318.7
35°	1415.2	1422.0	1424.3	1422.0	1423.6	1428.9	1428.1	1428.9	1436.5	1428.9	1438.7
37.5°	1554.2	1561.0	1566.4	1563.3	1567.1	1567.1	1573.2	1589.9	1579.3	1593.0	1603.6
40°	1756.3	1766.9	1767.7	1766.9	1770.7	1775.3	1781.3	1799.6	1787.4	1801.8	1811.7
42.5°	1964.4	1977.3	1981.9	1974.3	1982.6	1992.5	1993.3	2009.2	2010.0	2012.3	2017.6
45°	2199.1	2210.5	2219.6	2215.8	2216.6	2229.5	2226.5	2241.7	2230.3	2230.3	2233.3
47.5°	2449.1	2459.7	2465.8	2471.8	2464.2	2475.6	2481.0	2477.9	2464.2	2461.2	2443.0
50°	2676.9	2686.1	2695.2	2711.9	2711.1	2716.4	2720.2	2706.6	2703.5	2686.8	2666.3
52.5°	2918.5	2942.1	2962.6	2997.5	3002.8	3021.1	3014.2	2991.4	2987.6	2960.3	2932.9
55°	3255.0	3322.6	3352.3	3406.2	3442.7	3441.9	3426.7	3422.9	3394.0	3339.3	3306.7
57.5°	3840.7	3946.3	3997.2	4067.1	4078.5	4071.6	4051.9	4016.9	3966.8	3874.9	3815.6
60°	4686.2	4751.5	4810.8	4827.5	4835.8	4822.9	4753.8	4676.3	4578.3	4451.5	4345.9
62.5°	5325.0	5391.9	5435.9	5429.1	5376.7	5310.6	5209.6	5079.7	4942.2	4800.1	4642.1
65°	5650.2	5678.3	5671.4	5618.2	5528.6	5413.1	5265.8	5105.5	4943.7	4775.8	4611.7
67°	5632.7	5633.4	5587.1	5483.8	5369.1	5224.0	5044.0	4869.2	4679.3	4503.1	4307.9
67.5°	5601.5	5598.5	5533.9	5420.7	5296.9	5147.3	4960.4	4779.6	4582.9	4405.1	4203.1
70°	5249.1	5206.5	5060.7	4879.9	4707.4	4505.4	4309.4	4102.0	3880.2	3727.5	3495.1
72.5°	4313.2	4169.6	3918.2	3729.0	3544.4	3280.1	3157.8	2900.3	2744.6	2647.3	2471.8
75°	2497.7	2377.7	2183.2	2006.2	1916.6	1760.1	1685.6	1496.5	1457.0	1455.5	1394.7
77.5°	953.3	831.8	706.5	569.0	483.9	384.4	338.8	303.1	275.7	294.7	267.4
80°	714.8	588.0	459.6	334.2	238.5	176.2	151.2	139.8	132.9	127.6	123.8
82.5°	532.5	420.1	325.9	212.7	148.9	112.4	97.2	91.2	88.1	82.8	78.2
85°	180.0	144.3	113.9	79.0	62.3	50.9	47.1	45.6	43.3	39.5	37.2
87.5°	9.9	9.1	9.9	7.6	9.1	7.6	8.4	8.4	8.4	7.6	7.6
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8
2.5°	758.9	758.9	758.9	757.4	755.1	750.5	746.0	742.2	738.4	736.1	734.6
5°	770.3	768.7	768.0	767.2	761.9	752.8	744.4	736.8	729.2	723.2	720.9
7.5°	790.8	787.7	787.0	784.7	777.9	764.2	752.0	739.9	729.2	720.9	717.1
10°	821.9	821.9	817.4	814.3	806.7	788.5	771.0	755.1	740.6	731.5	729.2
12.5°	861.4	861.4	857.6	855.3	846.2	822.7	801.4	782.4	768.7	759.6	758.9
15°	902.4	901.7	898.6	895.6	885.7	860.7	839.4	822.7	811.3	800.7	797.6
17.5°	938.9	938.9	935.1	932.1	922.2	900.9	881.9	869.8	856.9	834.8	818.1
20°	975.4	976.1	973.1	970.1	961.7	943.5	935.1	923.0	894.1	846.2	806.7
22.5°	1015.6	1018.7	1014.9	1011.8	1005.0	997.4	994.4	965.5	904.7	828.0	770.3
25°	1067.3	1072.6	1068.0	1066.5	1062.7	1065.0	1055.9	989.0	889.5	788.5	716.3
27.5°	1137.9	1137.9	1138.7	1138.7	1137.2	1145.5	1112.1	989.8	856.1	737.6	651.8
30°	1220.7	1225.3	1223.8	1223.8	1229.8	1235.2	1143.2	973.1	813.6	674.6	572.8
32.5°	1320.2	1324.0	1325.6	1318.7	1343.0	1315.7	1154.6	942.7	761.2	596.3	478.6
35°	1440.3	1445.6	1449.4	1450.1	1466.1	1385.6	1148.6	897.9	685.9	498.3	375.3
37.5°	1596.7	1607.4	1615.7	1619.5	1620.3	1444.8	1131.9	838.6	588.0	388.9	279.5
40°	1804.9	1816.3	1814.0	1821.6	1778.3	1479.8	1093.9	752.8	466.4	285.6	215.7
42.5°	2005.4	2007.0	2010.0	2003.2	1915.0	1498.0	1040.7	648.0	349.4	213.5	184.6
45°	2229.5	2216.6	2202.2	2191.5	2041.1	1504.8	967.8	520.3	246.9	179.3	170.9
47.5°	2439.9	2422.5	2392.8	2362.5	2153.6	1494.2	874.3	389.7	187.6	164.1	161.8
50°	2646.6	2613.9	2572.1	2537.2	2261.4	1478.2	771.0	281.1	164.1	156.5	154.2
52.5°	2902.6	2847.9	2793.2	2747.6	2402.0	1453.2	662.4	213.5	154.2	150.4	147.4
55°	3253.5	3177.5	3089.4	3025.6	2592.6	1415.2	548.5	180.8	149.6	146.6	142.1
57.5°	3739.7	3625.7	3526.2	3422.1	2853.2	1376.5	450.5	167.9	148.9	144.3	138.3
60°	4236.5	4099.7	3972.9	3824.0	3119.1	1337.7	382.1	166.4	151.2	144.3	135.2
62.5°	4494.7	4353.5	4200.8	4049.6	3233.8	1246.6	335.0	168.6	156.5	146.6	135.2
65°	4435.5	4263.1	4108.1	3953.9	3100.8	1074.1	283.3	171.7	167.1	155.7	137.5
67°	4137.7	3957.7	3808.8	3661.4	2804.6	899.4	243.1	174.7	178.5	166.4	142.1
67.5°	4032.9	3852.9	3706.3	3562.7	2717.2	862.9	233.2	176.2	180.8	169.4	143.6
70°	3343.9	3211.7	3056.0	2945.1	2199.9	638.9	191.4	179.3	194.5	186.9	150.4
72.5°	2406.5	2280.4	2163.4	2101.9	1620.3	446.7	161.0	176.2	202.8	196.7	153.4
75°	1279.2	1271.6	1229.1	1259.5	1002.7	291.7	142.1	164.8	193.7	180.0	142.8
77.5°	258.3	265.9	312.2	307.7	323.6	162.6	121.5	141.3	149.6	132.2	116.2
80°	120.0	117.7	115.5	117.0	114.7	104.1	98.8	110.9	104.1	85.1	77.5
82.5°	74.4	72.9	70.6	69.9	77.5	82.8	86.6	87.4	69.1	59.3	57.0
85°	35.7	35.7	34.9	36.5	45.6	67.6	72.9	64.6	46.3	42.5	40.3
87.5°	6.8	6.8	7.6	6.8	9.1	16.0	18.2	21.3	17.5	18.2	20.5
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):

	165°	175°	180°
0°	755.8	755.8	755.8
2.5°	733.0	731.5	731.5
5°	717.9	717.1	717.1
7.5°	714.1	714.8	714.1
10°	728.5	727.7	730.8
12.5°	760.4	762.7	761.9
15°	793.8	795.3	795.3
17.5°	803.7	798.4	797.6
20°	777.9	768.0	765.7
22.5°	729.2	711.0	711.8
25°	667.7	645.7	647.2
27.5°	596.3	572.8	572.0
30°	510.5	484.6	471.7
32.5°	407.2	376.0	376.0
35°	306.1	281.1	271.9
37.5°	232.4	218.0	213.5
40°	193.7	186.9	185.4
42.5°	176.2	174.0	173.2
45°	167.1	165.6	164.8
47.5°	158.8	158.0	157.2
50°	152.7	151.9	151.2
52.5°	147.4	145.8	145.1
55°	139.8	139.8	139.8
57.5°	135.2	135.2	134.5
60°	130.7	129.9	129.9
62.5°	126.9	125.3	126.1
65°	124.6	122.3	122.3
67°	123.1	118.5	118.5
67.5°	123.1	117.0	117.0
70°	120.8	110.9	109.4
72.5°	118.5	104.1	101.8
75°	112.4	98.8	96.5
77.5°	96.5	88.1	86.6
80°	74.4	64.6	66.1
82.5°	53.9	46.3	45.6
85°	38.7	33.4	33.4
87.5°	20.5	17.5	18.2
90°	0.0	0.0	0.0

(END OF REPORT)