

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: P181244

Luminaire Tested: **ICM-F02-LED-E1-T2**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181244
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F02-LED-E1-T2
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4705.7 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

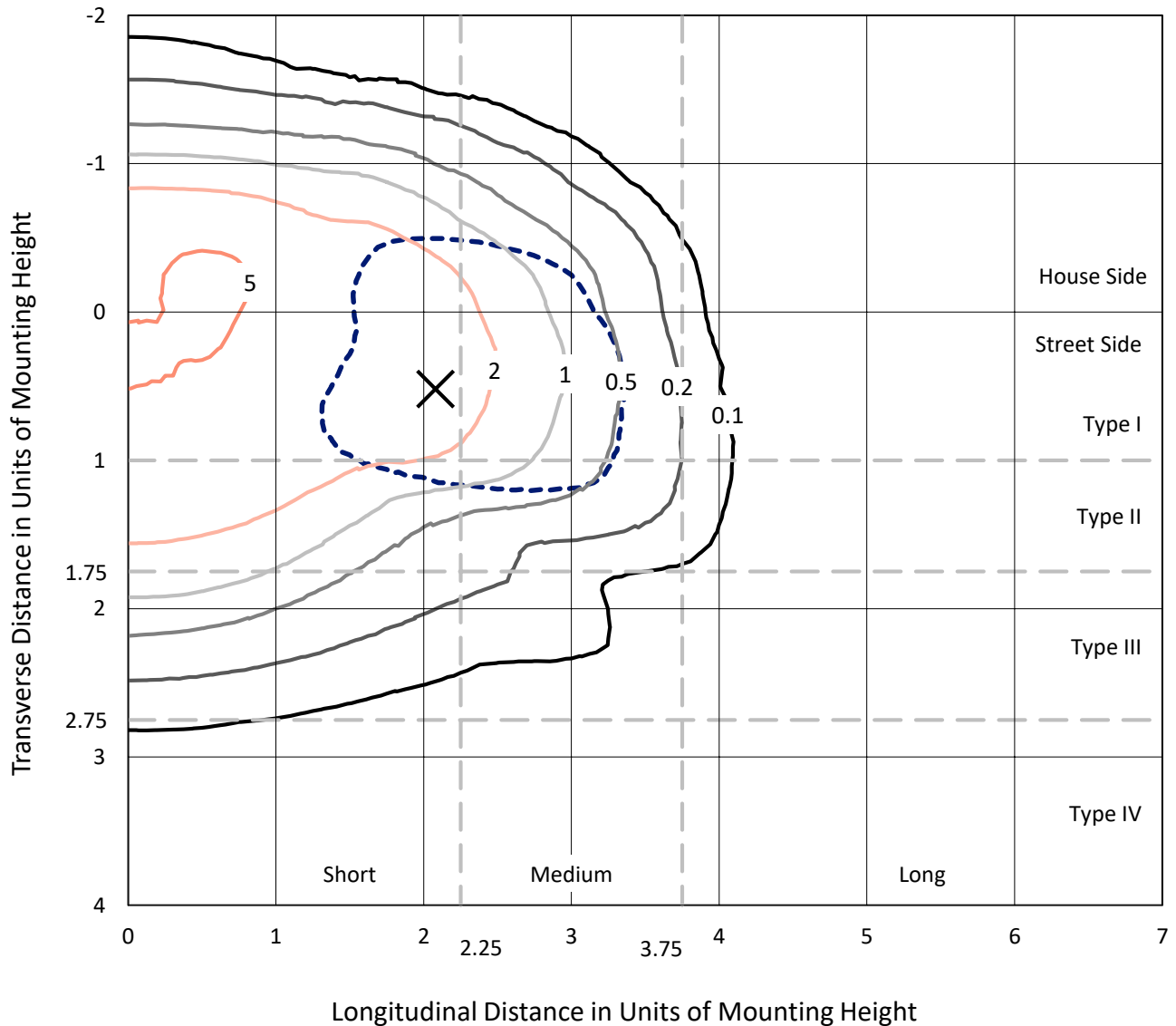
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

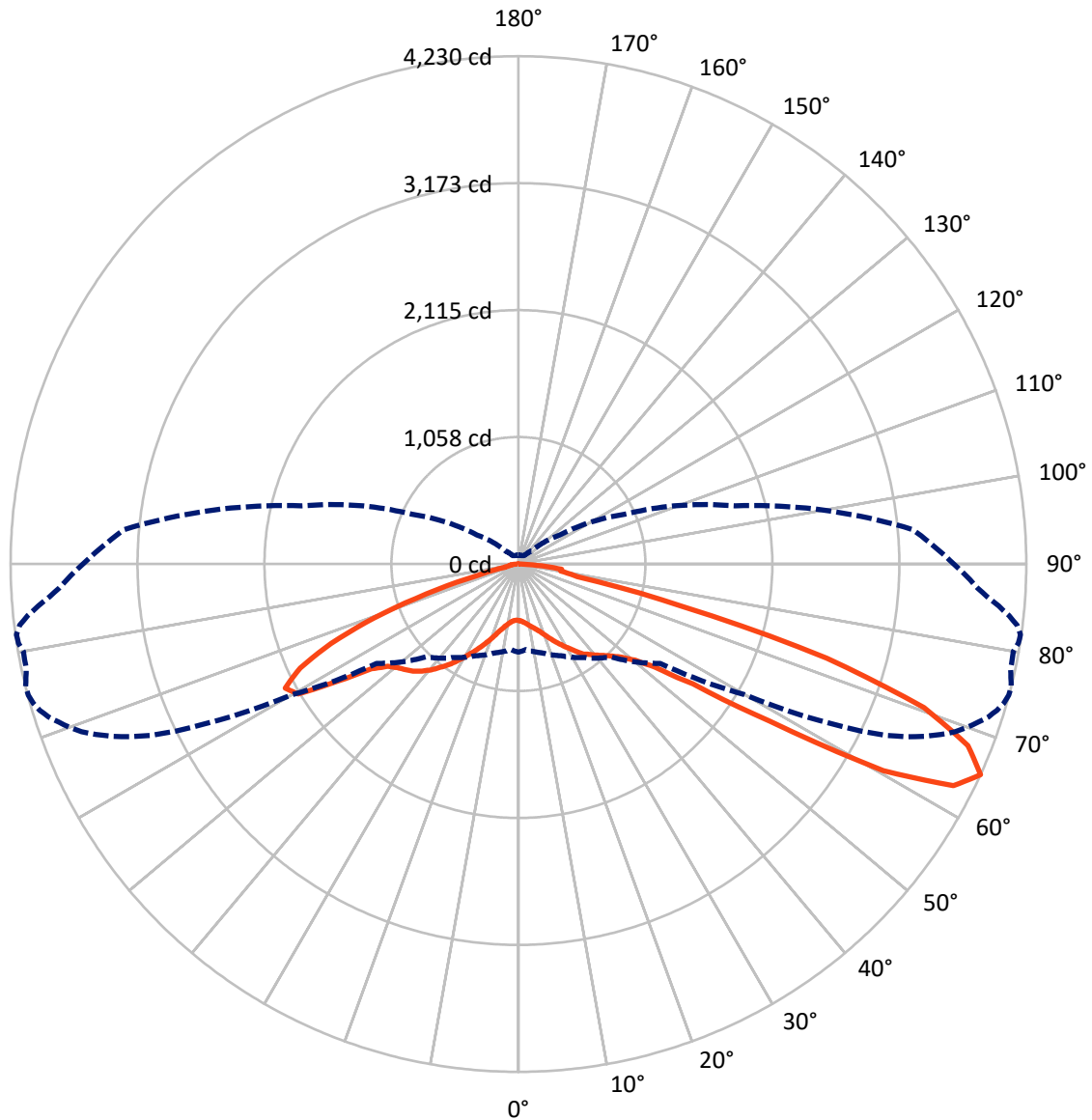
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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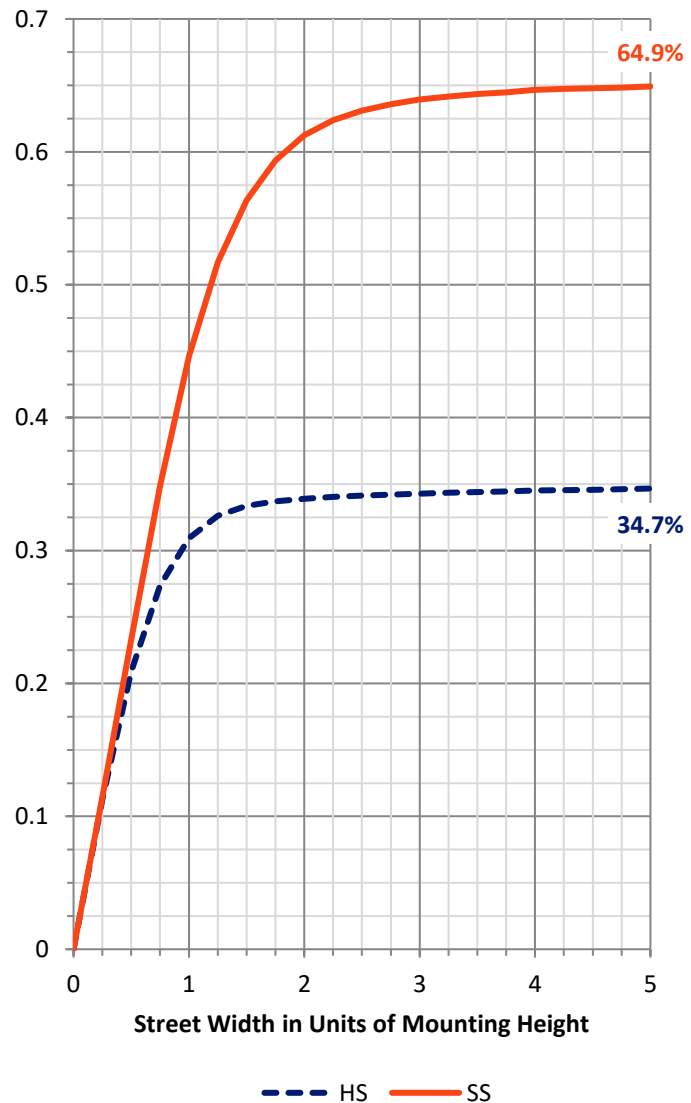
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1647.8	0.0	1647.8
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	3057.9	0.0	3057.9
	% Fixture	65.0	0.0	65.0
Total	Lumens	4705.7	0.0	4705.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.1	1.0
10°-20°	161.8	3.4
20°-30°	317.9	6.8
30°-40°	528.3	11.2
40°-50°	776.2	16.5
50°-60°	1074.7	22.8
60°-70°	1282.7	27.3
70°-80°	453.6	9.6
80°-90°	63.4	1.3
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°	4705.7	100.0
0°-180°	4705.7	100.0



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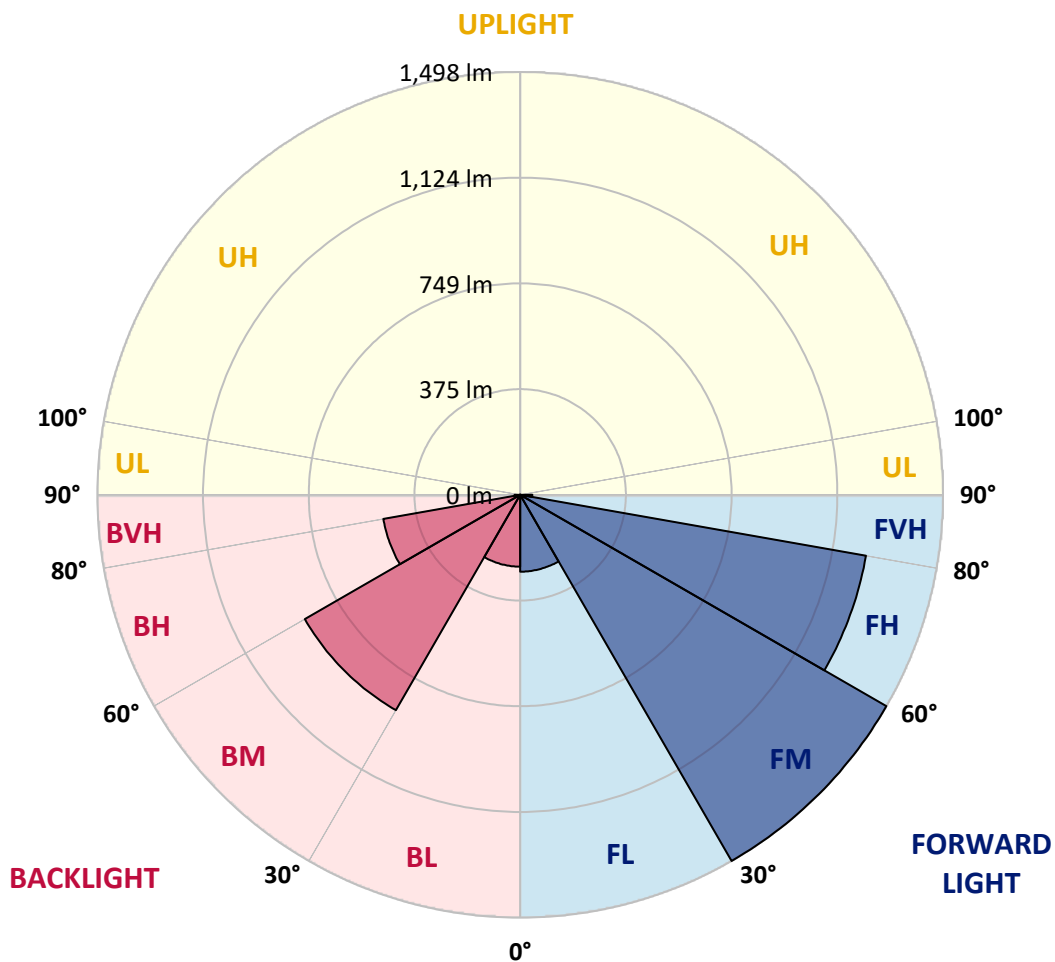
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	272.3	5.8			
FM	(30°-60°)	1498.1	31.8			
FH	(60°-80°)	1244.1	26.4			G1/1800
FVH	(80°-90°)	43.3	0.9			G1/100
BL	(0°-30°)	254.6	5.4	B1/500		
BM	(30°-60°)	881.0	18.7	B1/1000		
BH	(60°-80°)	492.2	10.5	B1/500		G1/500
BVH	(80°-90°)	20.1	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5
2.5°	491.0	491.4	490.4	490.0	488.4	485.9	483.8	481.8	481.8	481.8	480.2
5°	512.5	513.5	511.4	509.9	505.3	502.7	499.2	496.6	495.5	495.1	493.5
7.5°	539.6	538.0	535.0	534.0	530.4	524.7	518.1	513.0	513.0	512.5	513.0
10°	566.7	562.6	561.1	559.5	554.0	546.8	539.1	533.5	532.9	532.5	530.9
12.5°	593.9	592.4	590.8	585.1	579.5	568.3	559.5	554.0	553.4	554.0	551.9
15°	629.7	626.1	624.6	614.9	602.6	590.3	579.5	574.4	572.8	573.4	571.8
17.5°	657.3	657.3	653.8	643.0	627.2	610.2	599.0	595.9	595.4	595.4	595.9
20°	679.4	678.9	675.3	666.6	647.6	630.7	625.1	624.1	623.5	623.5	625.1
22.5°	691.6	690.6	689.1	679.4	664.6	653.2	653.8	656.8	657.9	658.9	660.9
25°	697.8	696.3	695.7	689.1	678.3	676.8	686.1	694.2	696.3	698.3	700.8
27.5°	708.0	705.5	706.5	703.9	701.4	706.0	724.9	733.7	735.2	737.8	739.3
30°	736.2	735.2	739.3	740.3	742.3	749.0	766.4	774.6	778.1	778.1	785.3
32.5°	790.0	790.4	791.4	802.2	805.9	810.4	819.6	826.3	826.8	827.4	834.0
35°	862.1	865.2	873.9	883.2	891.8	891.4	885.7	889.3	886.7	889.8	890.3
37.5°	953.3	949.1	962.0	983.0	996.3	992.7	967.6	951.3	955.8	953.8	952.3
40°	1023.4	1028.0	1052.6	1080.2	1090.4	1101.8	1068.9	1040.8	1036.8	1029.0	1024.5
42.5°	1120.2	1120.7	1140.7	1161.1	1190.8	1215.4	1194.4	1154.0	1141.7	1132.5	1112.5
45°	1209.8	1208.2	1224.6	1249.7	1285.0	1320.4	1328.0	1284.0	1279.4	1263.0	1236.8
47.5°	1269.7	1267.6	1278.9	1311.6	1368.9	1426.8	1458.5	1445.2	1436.6	1429.9	1388.9
50°	1310.1	1306.0	1318.8	1353.6	1417.6	1506.7	1589.6	1600.8	1597.3	1597.3	1571.2
52.5°	1340.3	1340.3	1349.5	1377.7	1442.7	1553.8	1702.2	1759.1	1763.7	1768.8	1767.3
55°	1323.4	1326.0	1349.0	1390.0	1458.5	1586.5	1795.5	1919.8	1945.4	1966.9	1991.5
57.5°	1265.6	1274.2	1304.9	1372.0	1462.6	1611.2	1898.8	2145.1	2217.3	2279.7	2377.0
60°	1181.1	1192.4	1236.8	1322.4	1432.5	1571.2	1935.2	2335.5	2450.2	2586.4	2840.3
62.5°	1036.2	1047.4	1091.0	1176.5	1270.7	1418.1	1784.7	2363.7	2547.0	2740.0	3123.9
65°	734.1	716.2	766.4	843.2	951.3	1094.1	1442.1	2174.8	2438.4	2700.0	3174.2
67.5°	409.0	407.5	438.2	495.5	599.0	752.6	993.7	1667.9	1910.6	2207.1	2789.1
70°	282.0	285.1	304.7	366.6	452.1	584.7	708.0	1047.4	1222.1	1423.3	1995.6
72.5°	198.1	204.7	215.5	252.4	339.9	492.5	723.4	626.1	713.1	850.3	1200.0
75°	116.2	120.8	128.5	146.4	193.5	329.2	749.0	550.3	550.3	582.6	726.0
77.5°	71.6	71.6	76.3	83.4	102.9	161.3	533.5	618.4	601.0	582.6	584.1
80°	36.8	39.4	46.0	49.7	57.3	73.8	239.6	576.9	632.7	670.1	644.0
82.5°	16.9	19.0	28.2	30.2	33.3	38.9	82.4	328.2	439.8	579.0	723.4
85°	8.7	8.7	14.9	18.4	20.0	18.0	30.2	132.6	200.7	306.1	479.2
87.5°	1.6	1.6	2.6	3.1	4.7	4.1	5.1	7.7	12.8	13.9	14.3
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5
2.5°	479.7	480.2	479.7	479.2	478.1	478.1	478.1	477.7	477.7	477.7	477.1
5°	493.5	491.4	492.0	491.0	490.4	490.0	490.4	489.4	488.4	488.9	488.4
7.5°	510.9	509.9	507.8	507.8	507.4	506.3	506.3	504.7	504.3	503.3	502.7
10°	530.4	527.8	528.8	527.8	528.4	526.3	525.3	524.3	523.3	523.3	523.7
12.5°	550.3	549.9	548.3	547.3	547.3	545.8	546.2	545.8	544.2	543.7	542.1
15°	570.8	570.8	569.3	569.8	569.3	568.3	567.3	567.3	566.2	565.2	565.7
17.5°	594.9	594.9	594.9	594.9	595.4	593.9	594.4	593.4	592.4	594.4	594.4
20°	626.1	628.2	628.2	627.6	630.2	628.7	628.2	630.7	628.2	631.7	631.3
22.5°	662.0	664.0	664.0	666.1	666.6	668.1	669.1	668.1	670.1	672.2	672.2
25°	701.9	703.9	705.5	708.6	710.1	709.0	709.6	712.1	713.1	715.2	717.2
27.5°	743.9	744.4	746.4	750.1	752.6	753.6	754.1	758.2	758.7	759.7	761.8
30°	784.8	790.0	788.9	793.5	795.1	796.6	799.6	801.2	804.8	806.9	806.9
32.5°	832.9	831.9	836.0	839.6	842.1	844.7	847.3	849.3	851.4	852.4	857.5
35°	892.8	894.9	894.9	895.4	901.6	902.1	904.1	908.7	910.2	913.3	915.4
37.5°	952.3	948.7	948.1	948.1	946.1	947.6	948.1	948.7	950.7	951.3	953.3
40°	1018.8	1014.1	1010.1	1007.5	1003.4	997.8	996.8	994.2	995.7	995.3	995.7
42.5°	1110.0	1097.1	1087.4	1080.2	1072.0	1065.9	1061.3	1054.6	1050.1	1044.4	1043.4
45°	1226.1	1202.1	1185.7	1174.0	1162.1	1145.2	1135.5	1125.3	1116.1	1106.9	1099.2
47.5°	1378.7	1353.1	1327.0	1305.5	1287.1	1259.9	1232.3	1216.9	1199.0	1183.2	1171.9
50°	1558.4	1527.6	1515.4	1485.2	1462.1	1421.2	1386.9	1361.8	1326.0	1301.9	1280.9
52.5°	1742.2	1734.5	1727.8	1702.2	1675.1	1651.5	1621.4	1577.3	1541.0	1513.3	1470.3
55°	1992.6	1996.1	1993.6	1979.7	1970.0	1947.5	1935.2	1896.8	1880.4	1840.5	1795.5
57.5°	2413.9	2442.5	2478.9	2493.2	2512.7	2494.2	2515.7	2541.9	2476.9	2499.4	2458.9
60°	2951.9	3083.6	3161.9	3258.1	3321.0	3409.1	3425.0	3448.0	3441.4	3454.2	3480.3
62.5°	3280.6	3436.8	3586.8	3695.8	3812.6	3877.0	3954.9	4009.1	4065.4	4103.4	4092.6
65°	3377.4	3538.2	3674.3	3793.6	3898.1	3976.9	4049.0	4117.1	4168.9	4205.2	4226.7
67.5°	3022.1	3232.0	3375.4	3515.1	3649.7	3732.7	3793.0	3859.1	3934.9	3997.9	4010.2
70°	2274.2	2588.9	2792.2	2959.6	3117.8	3229.4	3313.9	3375.4	3434.2	3479.3	3528.4
72.5°	1422.2	1697.7	1930.1	2147.2	2315.1	2468.7	2539.8	2676.0	2658.1	2692.4	2729.2
75°	852.4	986.5	1114.5	1267.6	1355.6	1483.6	1506.7	1529.2	1517.4	1479.1	1507.7
77.5°	592.4	614.3	613.3	604.7	595.4	572.8	543.7	527.8	517.1	501.7	507.8
80°	595.9	548.3	475.6	399.8	330.2	284.1	265.7	265.7	284.7	311.8	338.9
82.5°	712.1	661.5	589.8	493.5	391.2	318.4	269.8	250.3	254.0	281.6	316.4
85°	480.2	491.4	431.1	394.2	312.3	243.2	203.7	165.4	146.4	151.1	171.0
87.5°	17.4	21.0	7.7	10.2	7.2	6.1	6.1	6.7	4.7	5.7	5.1
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5
2.5°	476.7	476.1	476.1	475.1	475.1	474.6	474.6	474.0	473.6	473.6	473.0
5°	487.9	487.4	486.3	485.9	484.8	484.8	484.3	483.3	483.3	482.2	481.8
7.5°	503.7	502.7	501.7	501.2	500.7	499.2	499.2	498.1	498.1	497.1	496.6
10°	522.7	521.7	520.7	521.2	519.6	519.2	518.1	518.1	516.6	516.1	516.1
12.5°	543.2	542.7	542.7	541.1	540.7	540.1	538.0	538.0	538.0	537.0	537.6
15°	565.2	565.7	564.2	565.7	565.2	563.6	563.6	563.6	561.6	564.2	562.1
17.5°	594.9	596.5	595.4	595.9	594.9	594.9	595.4	594.9	595.9	595.9	599.0
20°	631.7	632.3	634.8	633.8	633.8	633.3	634.3	634.8	636.8	635.8	637.9
22.5°	672.2	674.8	675.3	677.3	677.3	676.8	677.9	679.9	680.9	682.4	682.0
25°	718.2	719.8	721.9	719.3	723.4	723.4	724.4	727.0	727.4	727.4	731.1
27.5°	761.3	765.4	765.9	768.5	766.9	767.9	771.5	773.0	775.1	775.1	776.1
30°	810.0	811.4	812.5	815.5	815.1	815.5	816.1	818.6	818.6	821.2	823.7
32.5°	860.1	861.1	862.1	865.2	866.2	868.3	867.3	869.3	871.8	872.4	873.9
35°	920.0	921.0	922.1	926.6	927.2	930.7	931.7	930.7	934.8	932.3	934.8
37.5°	954.8	959.4	960.5	963.5	962.5	965.0	966.6	968.7	969.7	971.7	975.8
40°	997.3	998.8	1001.9	1003.4	1005.5	1006.0	1008.0	1009.6	1011.1	1015.7	1020.3
42.5°	1040.8	1042.9	1044.4	1046.4	1049.0	1051.1	1052.6	1057.2	1058.2	1061.3	1070.0
45°	1093.5	1092.5	1093.0	1093.5	1094.5	1097.1	1101.8	1106.3	1109.4	1116.6	1123.7
47.5°	1159.1	1152.4	1149.9	1145.8	1146.8	1152.4	1153.4	1161.1	1167.3	1174.0	1182.6
50°	1258.4	1240.5	1229.7	1219.0	1218.0	1221.0	1225.1	1233.3	1240.5	1249.2	1261.5
52.5°	1425.3	1391.0	1369.5	1339.8	1331.6	1330.1	1327.0	1331.6	1333.7	1345.4	1368.5
55°	1763.2	1699.7	1658.7	1612.7	1569.7	1556.8	1532.3	1537.4	1532.3	1539.5	1573.8
57.5°	2468.7	2418.0	2378.1	2319.2	2245.4	2167.1	2147.6	2067.3	2083.2	2129.2	2099.5
60°	3493.0	3474.6	3446.0	3417.8	3317.0	3260.1	3167.5	3157.2	3092.2	3092.8	3050.3
62.5°	4066.4	4090.0	4072.6	4064.4	4058.8	4040.9	3994.8	3939.5	3856.6	3796.7	3708.6
65°	4230.3	4210.4	4191.4	4188.9	4187.3	4216.5	4223.1	4184.2	4109.0	4015.7	3914.4
67.5°	4039.4	4028.1	4029.1	4007.6	4020.9	4071.6	4106.9	4096.1	4027.1	3914.4	3785.4
70°	3584.8	3562.7	3585.2	3613.4	3633.3	3662.5	3697.9	3706.5	3643.6	3527.9	3396.3
72.5°	2684.2	2687.7	2709.3	2716.9	2797.3	2789.1	2820.9	2717.5	2671.9	2561.9	2494.2
75°	1412.5	1389.4	1449.3	1322.4	1270.1	1306.5	1204.7	1106.9	1127.4	1144.2	1022.3
77.5°	499.2	466.9	412.1	390.1	324.6	274.9	224.7	202.7	191.0	184.8	177.1
80°	358.3	368.7	357.3	330.7	281.0	225.3	177.7	140.3	120.3	109.6	102.4
82.5°	362.4	402.9	420.8	413.1	368.1	278.5	183.8	117.2	87.1	72.7	67.5
85°	194.5	212.9	204.7	172.6	155.2	92.7	63.4	42.5	35.8	32.7	30.2
87.5°	7.7	6.1	5.1	5.1	5.7	6.1	5.1	5.7	5.1	5.1	5.1
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5
2.5°	472.0	472.0	472.0	471.5	470.5	467.9	465.4	463.4	461.8	460.3	458.2
5°	481.2	480.2	480.2	480.2	476.1	472.0	468.5	464.8	461.8	459.3	457.2
7.5°	496.6	496.1	494.0	493.5	490.4	483.8	479.7	473.6	470.0	466.4	465.4
10°	515.1	514.5	514.0	513.5	509.4	502.7	497.6	492.0	486.9	481.8	476.7
12.5°	536.6	536.0	535.5	534.0	532.5	528.8	523.3	517.1	510.9	500.2	494.5
15°	563.2	564.2	563.2	562.6	561.6	562.1	558.5	549.9	540.1	526.3	514.5
17.5°	598.5	597.5	596.9	599.0	598.5	601.0	600.0	588.7	573.9	551.9	531.4
20°	637.4	637.4	639.4	640.9	645.6	652.2	649.1	635.4	608.2	577.5	550.9
22.5°	684.0	685.0	687.1	686.1	693.2	703.9	704.9	685.5	650.1	607.7	570.3
25°	732.7	733.7	731.6	734.7	746.4	761.8	764.8	737.2	690.6	635.4	586.7
27.5°	778.7	779.7	779.7	783.8	795.1	821.2	824.3	793.5	731.6	659.4	598.5
30°	823.7	827.8	828.8	829.9	846.8	883.2	889.8	845.2	767.4	677.3	606.7
32.5°	880.6	882.1	884.2	886.7	906.1	950.7	950.7	889.8	790.4	688.6	608.2
35°	941.5	942.0	946.6	947.1	974.8	1019.3	1010.6	926.6	806.9	686.1	596.9
37.5°	978.3	980.4	985.0	991.2	1020.3	1083.3	1063.4	958.4	810.0	669.1	571.4
40°	1023.9	1028.0	1032.7	1038.8	1082.2	1148.3	1107.9	978.3	797.1	635.8	532.9
42.5°	1073.0	1078.7	1085.9	1097.1	1148.8	1205.7	1141.7	981.4	767.9	598.5	487.4
45°	1128.4	1138.6	1146.8	1160.1	1218.4	1255.4	1162.1	963.5	731.1	549.3	438.7
47.5°	1192.4	1200.6	1214.9	1229.2	1287.5	1289.1	1164.2	928.7	680.9	500.2	387.1
50°	1271.2	1276.3	1297.8	1306.5	1361.3	1324.5	1149.3	881.6	628.2	444.9	329.7
52.5°	1376.1	1383.3	1411.0	1424.3	1463.2	1372.6	1128.4	830.4	567.7	383.0	270.8
55°	1583.5	1614.7	1634.1	1657.2	1682.2	1481.6	1119.2	775.6	499.6	311.3	214.5
57.5°	2165.6	2155.4	2198.3	2250.5	2250.1	1730.9	1174.4	728.5	419.3	238.0	164.8
60°	3032.9	3042.5	3020.6	3051.7	2952.5	2040.1	1250.2	678.9	328.7	177.1	126.0
62.5°	3677.4	3621.0	3589.9	3553.0	3334.3	2074.0	1194.9	576.9	239.1	124.4	96.7
65°	3830.0	3763.9	3696.9	3626.7	3297.0	1869.7	980.4	423.4	154.6	85.5	76.8
67.5°	3679.5	3573.4	3487.9	3415.7	3021.0	1549.7	716.7	260.1	88.6	69.1	65.5
70°	3289.3	3172.1	3033.9	2952.9	2543.9	1142.1	459.3	140.3	68.1	61.4	59.9
72.5°	2407.7	2311.5	2160.5	2067.8	1826.6	694.2	256.5	78.9	63.4	58.9	56.8
75°	937.9	887.7	824.7	829.9	740.8	307.2	116.2	68.1	62.0	57.9	55.8
77.5°	161.3	157.2	145.4	145.4	165.4	112.1	77.3	68.6	61.4	56.8	53.2
80°	96.7	94.7	90.1	89.1	86.0	78.9	74.2	69.6	60.4	53.8	49.1
82.5°	63.4	60.9	59.3	58.9	64.0	69.1	69.6	69.1	57.3	46.6	39.9
85°	27.2	27.2	27.2	27.6	36.8	55.8	57.3	61.4	47.1	36.4	28.7
87.5°	4.7	5.7	5.7	6.1	6.7	12.3	15.3	20.0	15.9	15.3	13.9
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°	470.5	470.5	470.5
2.5°	457.7	456.7	456.7
5°	456.2	455.2	455.6
7.5°	462.3	460.3	460.7
10°	473.6	471.5	470.5
12.5°	487.9	485.3	485.3
15°	502.7	496.6	496.1
17.5°	515.1	507.4	506.3
20°	528.8	518.6	517.1
22.5°	541.7	527.8	525.8
25°	550.9	534.0	531.4
27.5°	555.0	535.0	532.9
30°	558.0	535.5	532.5
32.5°	555.0	530.9	528.4
35°	538.0	511.9	510.4
37.5°	508.8	479.7	477.7
40°	470.5	439.8	434.6
42.5°	421.3	392.7	387.1
45°	373.8	340.9	338.4
47.5°	322.5	291.3	292.8
50°	268.7	240.7	240.1
52.5°	217.6	193.0	191.4
55°	171.5	154.1	152.6
57.5°	135.6	126.4	124.9
60°	110.6	106.0	104.5
62.5°	89.1	87.5	87.1
65°	74.2	74.2	74.2
67.5°	64.5	65.0	65.0
70°	59.3	59.9	59.3
72.5°	57.3	58.9	58.9
75°	55.8	56.8	54.8
77.5°	54.8	55.3	51.7
80°	54.2	53.8	47.1
82.5°	47.1	45.6	39.9
85°	43.0	32.7	27.6
87.5°	22.0	15.3	11.8
90°	0.0	0.0	0.0

(END OF REPORT)