

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: P181287

Luminaire Tested: **ICS-E02-LED-E1-T2-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181287
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: ICS-E02-LED-E1-T2-8030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4654.8 lumens
Efficiency: N/A
Efficacy: 89.3 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

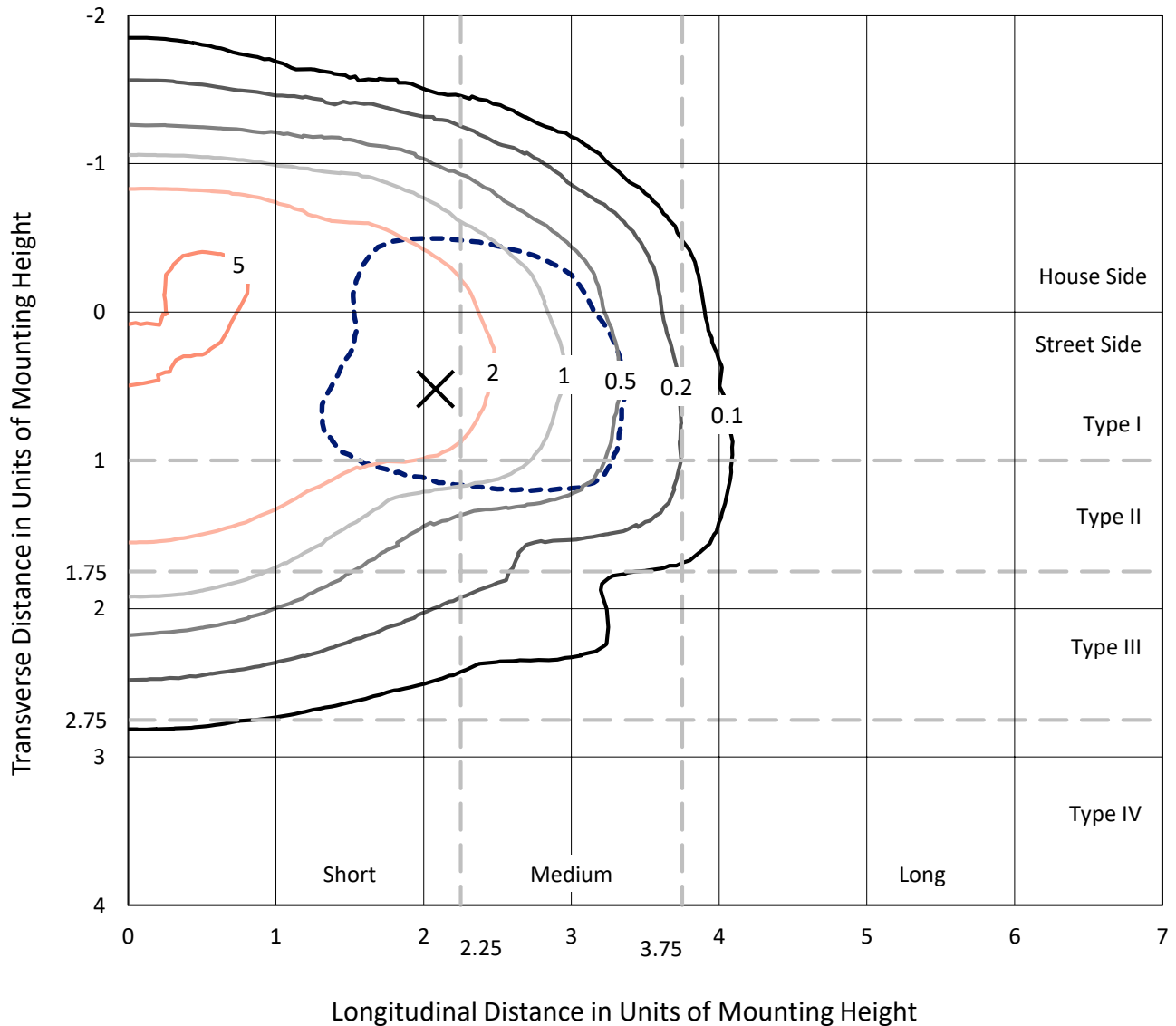
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

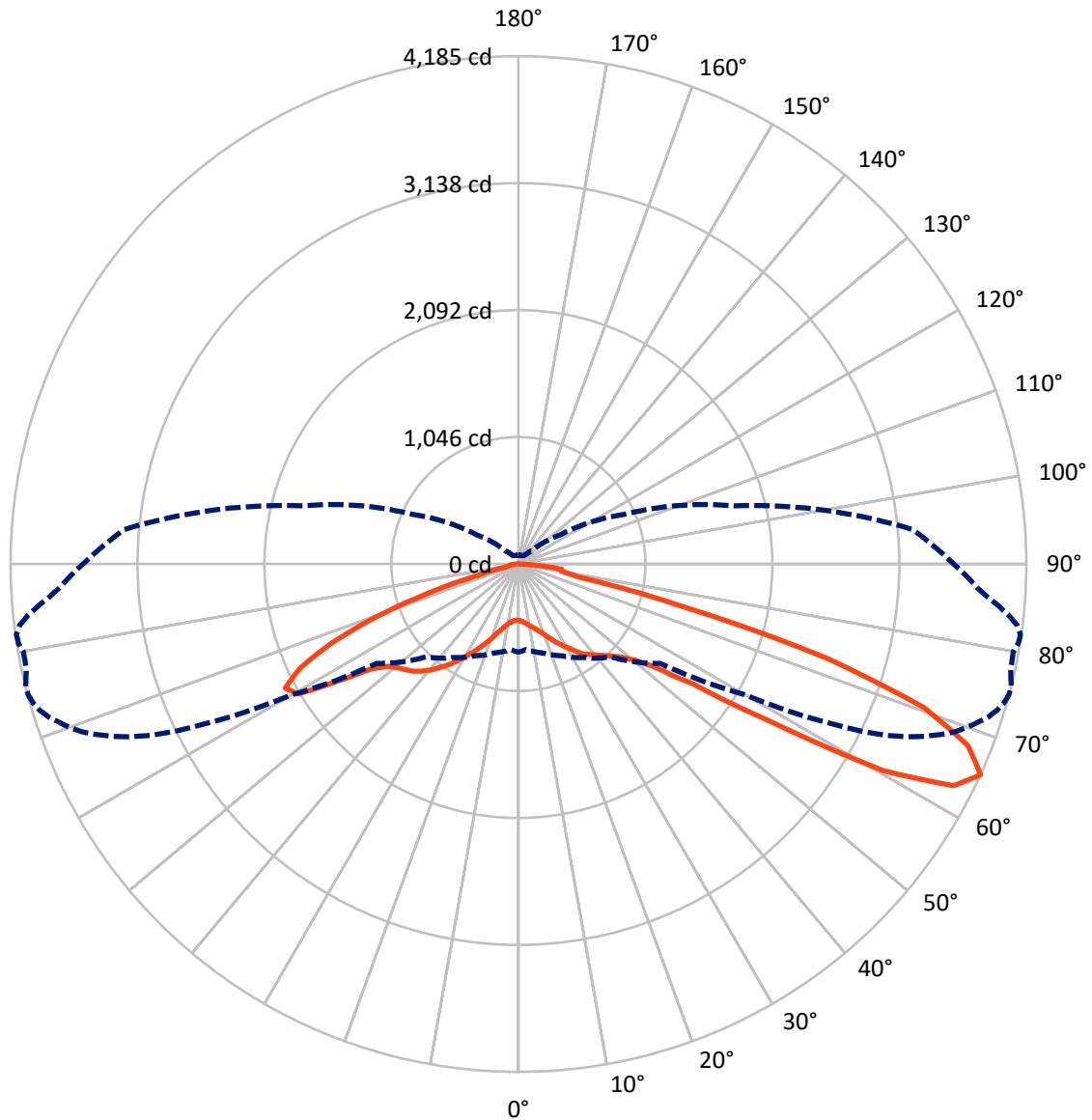
× Max cd
 - - - 1/2 Max cd



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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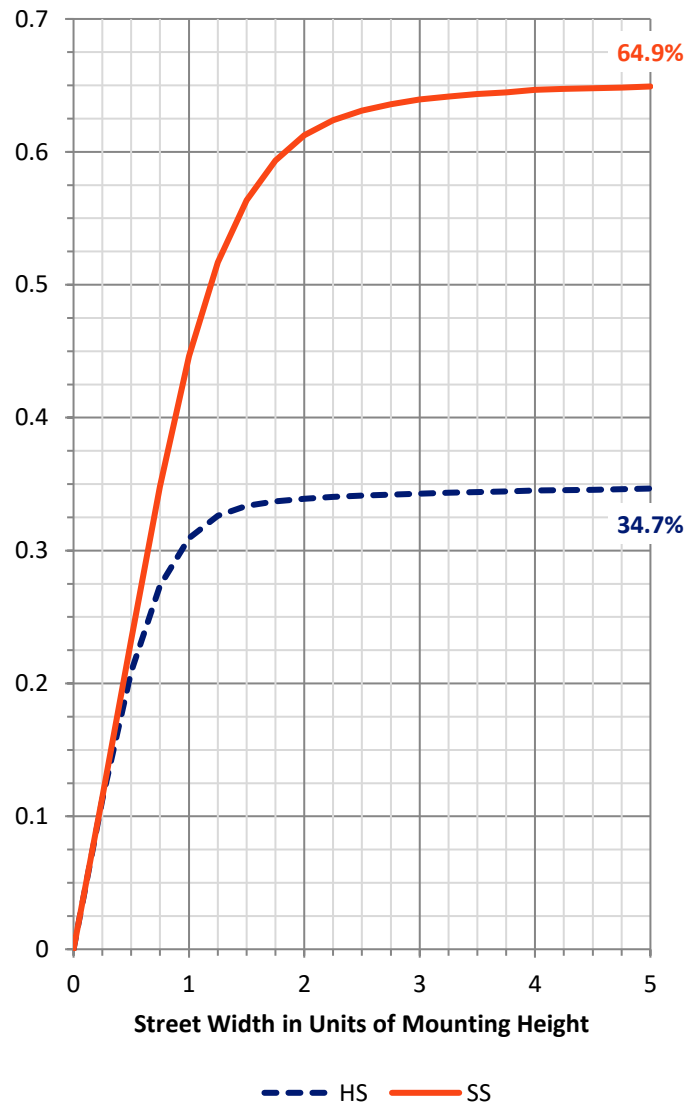
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1630.0	0.0	1630.0
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	3024.8	0.0	3024.8
	% Fixture	65.0	0.0	65.0
Total	Lumens	4654.8	0.0	4654.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	1.0
10°-20°	160.1	3.4
20°-30°	314.5	6.8
30°-40°	522.5	11.2
40°-50°	767.8	16.5
50°-60°	1063.0	22.8
60°-70°	1268.8	27.3
70°-80°	448.7	9.6
80°-90°	62.7	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°	4654.8	100.0
0°-180°	4654.8	100.0

Coefficient of Utilization



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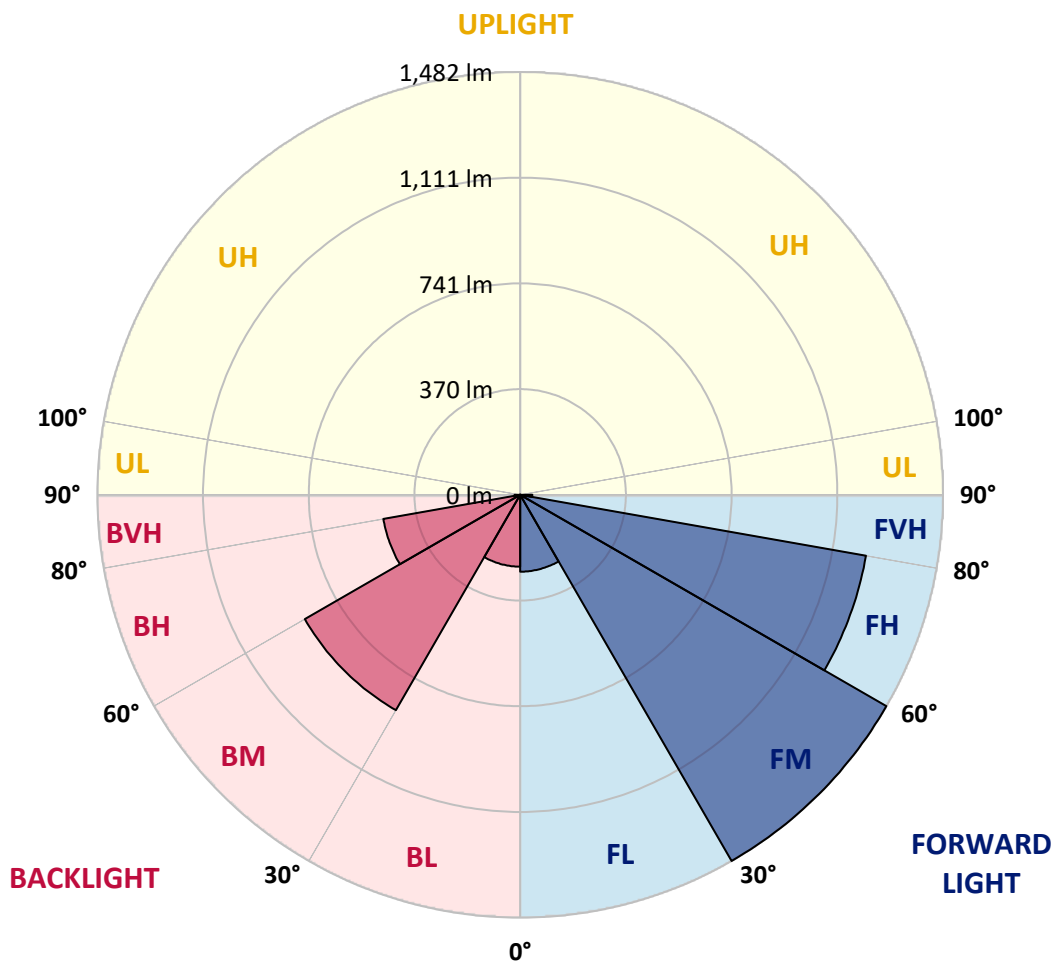
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	269.3	5.8			
FM	(30°-60°)	1482.0	31.8			
FH	(60°-80°)	1230.7	26.4			G1/1800
FVH	(80°-90°)	42.9	0.9			G1/100
BL	(0°-30°)	251.8	5.4	B1/500		
BM	(30°-60°)	871.4	18.7	B1/1000		
BH	(60°-80°)	486.9	10.5	B1/500		G1/500
BVH	(80°-90°)	19.8	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4
2.5°	485.7	486.2	485.2	484.6	483.1	480.6	478.6	476.5	476.5	476.5	475.0
5°	506.9	507.9	505.9	504.4	499.8	497.3	493.8	491.2	490.2	489.7	488.2
7.5°	533.8	532.2	529.2	528.2	524.7	519.1	512.5	507.4	507.4	506.9	507.4
10°	560.6	556.6	555.0	553.5	547.9	540.9	533.3	527.7	527.2	526.7	525.2
12.5°	587.4	585.9	584.4	578.8	573.3	562.1	553.5	547.9	547.4	547.9	545.9
15°	622.9	619.4	617.8	608.2	596.1	583.9	573.3	568.2	566.7	567.2	565.7
17.5°	650.2	650.2	646.7	636.1	620.4	603.7	592.5	589.5	589.0	589.0	589.5
20°	672.0	671.5	668.0	659.4	640.6	623.9	618.3	617.3	616.8	616.8	618.3
22.5°	684.2	683.2	681.6	672.0	657.3	646.2	646.7	649.7	650.8	651.8	653.8
25°	690.3	688.7	688.2	681.6	671.0	669.5	678.6	686.7	688.7	690.8	693.3
27.5°	700.4	697.8	698.9	696.3	693.8	698.4	717.1	725.7	727.2	729.8	731.3
30°	728.2	727.2	731.3	732.3	734.3	740.9	758.1	766.2	769.8	769.8	776.9
32.5°	781.4	781.9	782.9	793.6	797.1	801.7	810.8	817.4	817.9	818.4	825.0
35°	852.8	855.9	864.5	873.6	882.2	881.7	876.1	879.7	877.1	880.2	880.7
37.5°	943.0	938.9	951.6	972.3	985.5	982.0	957.1	940.9	945.5	943.5	941.9
40°	1012.3	1016.9	1041.2	1068.6	1078.7	1089.8	1057.4	1029.6	1025.5	1017.9	1013.4
42.5°	1108.1	1108.6	1128.3	1148.6	1177.9	1202.2	1181.5	1141.5	1129.3	1120.2	1100.5
45°	1196.7	1195.2	1211.4	1236.2	1271.1	1306.1	1313.7	1270.1	1265.5	1249.3	1223.5
47.5°	1255.9	1253.9	1265.0	1297.5	1354.2	1411.4	1442.8	1429.6	1421.0	1414.4	1373.9
50°	1295.9	1291.9	1304.5	1339.0	1402.3	1490.4	1572.4	1583.6	1580.0	1580.0	1554.2
52.5°	1325.8	1325.8	1334.9	1362.8	1427.1	1537.0	1683.9	1740.1	1744.6	1749.7	1748.2
55°	1309.1	1311.6	1334.4	1374.9	1442.8	1569.4	1776.0	1899.1	1924.4	1945.7	1970.0
57.5°	1251.9	1260.5	1290.9	1357.2	1446.8	1593.7	1878.3	2121.9	2193.3	2255.1	2351.3
60°	1168.3	1179.5	1223.5	1308.1	1417.0	1554.2	1914.3	2310.3	2423.7	2558.4	2809.6
62.5°	1025.0	1036.1	1079.2	1163.8	1256.9	1402.8	1765.4	2338.2	2519.4	2710.4	3090.2
65°	726.2	708.5	758.1	834.1	940.9	1082.2	1426.6	2151.3	2412.1	2670.9	3139.8
67.5°	404.6	403.1	433.5	490.2	592.5	744.4	983.0	1649.9	1890.0	2183.2	2759.0
70°	279.0	282.1	301.3	362.6	447.2	578.3	700.4	1036.1	1208.8	1407.9	1974.0
72.5°	196.0	202.6	213.2	249.7	336.3	487.2	715.6	619.4	705.4	841.2	1187.1
75°	115.0	119.5	127.1	144.8	191.4	325.6	740.9	544.4	544.4	576.3	718.1
77.5°	70.9	70.9	75.5	82.5	101.8	159.5	527.7	611.8	594.5	576.3	577.8
80°	36.5	39.0	45.6	49.1	56.7	72.9	237.0	570.7	625.9	662.9	637.1
82.5°	16.7	18.7	27.9	29.9	32.9	38.5	81.5	324.6	435.0	572.8	715.6
85°	8.6	8.6	14.7	18.2	19.8	17.7	29.9	131.2	198.5	302.8	474.0
87.5°	1.5	1.5	2.5	3.0	4.6	4.1	5.1	7.6	12.7	13.7	14.2
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4
2.5°	474.5	475.0	474.5	474.0	473.0	473.0	473.0	472.5	472.5	472.5	472.0
5°	488.2	486.2	486.7	485.7	485.2	484.6	485.2	484.1	483.1	483.6	483.1
7.5°	505.4	504.4	502.4	502.4	501.9	500.9	500.9	499.3	498.8	497.8	497.3
10°	524.7	522.1	523.1	522.1	522.6	520.6	519.6	518.6	517.6	517.6	518.1
12.5°	544.4	543.9	542.4	541.4	541.4	539.8	540.4	539.8	538.3	537.8	536.3
15°	564.7	564.7	563.1	563.6	563.1	562.1	561.1	561.1	560.1	559.1	559.6
17.5°	588.5	588.5	588.5	588.5	589.0	587.4	588.0	586.9	585.9	588.0	588.0
20°	619.4	621.4	621.4	620.9	623.4	621.9	621.4	623.9	621.4	624.9	624.4
22.5°	654.8	656.8	656.8	658.9	659.4	660.9	661.9	660.9	662.9	664.9	664.9
25°	694.3	696.3	697.8	700.9	702.4	701.4	701.9	704.4	705.4	707.5	709.5
27.5°	735.8	736.3	738.4	741.9	744.4	745.5	746.0	750.0	750.5	751.5	753.6
30°	776.3	781.4	780.4	785.0	786.5	788.0	791.0	792.6	796.1	798.1	798.1
32.5°	823.9	822.9	827.0	830.5	833.1	835.6	838.1	840.2	842.2	843.2	848.3
35°	883.2	885.2	885.2	885.7	891.8	892.3	894.3	898.9	900.4	903.5	905.5
37.5°	941.9	938.4	937.9	937.9	935.9	937.4	937.9	938.4	940.4	940.9	943.0
40°	1007.8	1003.2	999.2	996.6	992.6	987.0	986.0	983.5	985.0	984.5	985.0
42.5°	1097.9	1085.3	1075.6	1068.6	1060.4	1054.4	1049.8	1043.2	1038.7	1033.1	1032.1
45°	1212.9	1189.1	1172.9	1161.2	1149.6	1132.9	1123.2	1113.1	1104.0	1094.9	1087.3
47.5°	1363.8	1338.5	1312.6	1291.4	1273.1	1246.3	1219.0	1203.8	1186.0	1170.3	1159.2
50°	1541.5	1511.2	1499.0	1469.1	1446.3	1405.8	1371.9	1347.1	1311.6	1287.8	1267.1
52.5°	1723.4	1715.8	1709.2	1683.9	1657.0	1633.7	1603.8	1560.3	1524.3	1497.0	1454.4
55°	1971.0	1974.5	1972.0	1958.3	1948.7	1926.4	1914.3	1876.3	1860.1	1820.6	1776.0
57.5°	2387.8	2416.1	2452.1	2466.3	2485.5	2467.3	2488.6	2514.4	2450.1	2472.4	2432.3
60°	2920.0	3050.2	3127.7	3222.9	3285.2	3372.3	3388.0	3410.8	3404.2	3416.8	3442.7
62.5°	3245.2	3399.6	3548.0	3655.9	3771.3	3835.1	3912.1	3965.8	4021.5	4059.0	4048.3
65°	3340.9	3499.9	3634.6	3752.6	3855.9	3933.9	4005.3	4072.6	4123.8	4159.8	4181.0
67.5°	2989.4	3197.0	3338.8	3477.1	3610.3	3692.3	3752.1	3817.4	3892.4	3954.7	3966.8
70°	2249.5	2561.0	2762.0	2927.6	3084.1	3194.5	3278.1	3338.8	3397.1	3441.6	3490.3
72.5°	1406.8	1679.3	1909.2	2123.9	2290.0	2442.0	2512.4	2647.1	2629.3	2663.3	2699.7
75°	843.2	975.9	1102.5	1253.9	1341.0	1467.6	1490.4	1512.7	1501.0	1463.1	1491.4
77.5°	585.9	607.7	606.7	598.1	589.0	566.7	537.8	522.1	511.5	496.3	502.4
80°	589.5	542.4	470.5	395.5	326.6	281.1	262.8	262.8	281.6	308.4	335.3
82.5°	704.4	654.3	583.4	488.2	386.9	315.0	266.9	247.6	251.2	278.5	313.0
85°	475.0	486.2	426.4	389.9	308.9	240.6	201.6	163.6	144.8	149.4	169.1
87.5°	17.2	20.8	7.6	10.1	7.1	6.1	6.1	6.6	4.6	5.6	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°	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4
2.5°	471.5	471.0	471.0	470.0	470.0	469.5	469.5	468.9	468.4	468.4	467.9
5°	482.6	482.1	481.1	480.6	479.6	479.6	479.1	478.1	478.1	477.0	476.5
7.5°	498.3	497.3	496.3	495.8	495.3	493.8	493.8	492.7	492.7	491.7	491.2
10°	517.1	516.0	515.0	515.5	514.0	513.5	512.5	512.5	511.0	510.5	510.5
12.5°	537.3	536.8	536.8	535.3	534.8	534.3	532.2	532.2	532.2	531.2	531.7
15°	559.1	559.6	558.1	559.6	559.1	557.6	557.6	557.6	555.5	558.1	556.1
17.5°	588.5	590.0	589.0	589.5	588.5	588.5	589.0	588.5	589.5	589.5	592.5
20°	624.9	625.4	628.0	627.0	627.0	626.4	627.5	628.0	630.0	629.0	631.0
22.5°	664.9	667.5	668.0	670.0	670.0	669.5	670.5	672.5	673.5	675.1	674.6
25°	710.5	712.0	714.1	711.5	715.6	715.6	716.6	719.1	719.6	719.6	723.2
27.5°	753.0	757.1	757.6	760.1	758.6	759.6	763.2	764.7	766.7	766.7	767.7
30°	801.2	802.7	803.7	806.7	806.2	806.7	807.2	809.8	809.8	812.3	814.8
32.5°	850.8	851.8	852.8	855.9	856.9	858.9	857.9	859.9	862.4	862.9	864.5
35°	910.0	911.1	912.1	916.6	917.1	920.7	921.7	920.7	924.7	922.2	924.7
37.5°	944.5	949.0	950.0	953.1	952.1	954.6	956.1	958.2	959.2	961.2	965.2
40°	986.5	988.0	991.1	992.6	994.6	995.1	997.1	998.7	1000.2	1004.7	1009.3
42.5°	1029.6	1031.6	1033.1	1035.1	1037.7	1039.7	1041.2	1045.8	1046.8	1049.8	1058.4
45°	1081.7	1080.7	1081.2	1081.7	1082.7	1085.3	1089.8	1094.4	1097.4	1104.5	1111.6
47.5°	1146.5	1140.0	1137.4	1133.4	1134.4	1140.0	1141.0	1148.6	1154.6	1161.2	1169.8
50°	1244.8	1227.1	1216.4	1205.8	1204.8	1207.8	1211.9	1220.0	1227.1	1235.7	1247.8
52.5°	1409.9	1375.9	1354.7	1325.3	1317.2	1315.7	1312.6	1317.2	1319.2	1330.9	1353.7
55°	1744.1	1681.3	1640.8	1595.2	1552.7	1540.0	1515.7	1520.8	1515.7	1522.8	1556.7
57.5°	2442.0	2391.8	2352.3	2294.1	2221.2	2143.7	2124.4	2044.9	2060.6	2106.2	2076.8
60°	3455.3	3437.1	3408.7	3380.9	3281.1	3224.9	3133.2	3123.1	3058.8	3059.3	3017.3
62.5°	4022.5	4045.8	4028.6	4020.5	4014.9	3997.2	3951.6	3896.9	3814.9	3755.6	3668.5
65°	4184.6	4164.8	4146.1	4143.5	4142.0	4170.9	4177.5	4139.0	4064.5	3972.4	3872.1
67.5°	3995.7	3984.5	3985.5	3964.3	3977.4	4027.6	4062.5	4051.9	3983.5	3872.1	3744.5
70°	3546.0	3524.2	3546.5	3574.3	3594.1	3622.9	3657.9	3666.5	3604.2	3489.8	3359.6
72.5°	2655.2	2658.7	2680.0	2687.6	2767.1	2759.0	2790.4	2688.1	2643.0	2534.1	2467.3
75°	1397.2	1374.4	1433.7	1308.1	1256.4	1292.4	1191.6	1094.9	1115.1	1131.9	1011.3
77.5°	493.8	461.9	407.7	385.9	321.1	271.9	222.3	200.5	188.9	182.8	175.2
80°	354.5	364.6	353.5	327.1	278.0	222.8	175.7	138.8	119.0	108.4	101.3
82.5°	358.5	398.6	416.3	408.7	364.1	275.5	181.8	116.0	86.1	71.9	66.8
85°	192.4	210.7	202.6	170.7	153.4	91.7	62.8	42.0	35.4	32.4	29.9
87.5°	7.6	6.1	5.1	5.1	5.6	6.1	5.1	5.6	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°	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4
2.5°	466.9	466.9	466.9	466.4	465.4	462.9	460.3	458.3	456.8	455.3	453.2
5°	476.0	475.0	475.0	475.0	471.0	466.9	463.4	459.8	456.8	454.3	452.2
7.5°	491.2	490.7	488.7	488.2	485.2	478.6	474.5	468.4	464.9	461.4	460.3
10°	509.5	509.0	508.4	507.9	503.9	497.3	492.2	486.7	481.6	476.5	471.5
12.5°	530.7	530.2	529.7	528.2	526.7	523.1	517.6	511.5	505.4	494.8	489.2
15°	557.1	558.1	557.1	556.6	555.5	556.1	552.5	543.9	534.3	520.6	509.0
17.5°	592.0	591.0	590.5	592.5	592.0	594.5	593.5	582.4	567.7	545.9	525.7
20°	630.5	630.5	632.5	634.0	638.6	645.2	642.1	628.5	601.6	571.2	544.9
22.5°	676.6	677.6	679.6	678.6	685.7	696.3	697.3	678.1	643.2	601.1	564.2
25°	724.7	725.7	723.7	726.7	738.4	753.6	756.6	729.2	683.2	628.5	580.4
27.5°	770.3	771.3	771.3	775.3	786.5	812.3	815.3	785.0	723.7	652.3	592.0
30°	814.8	818.9	819.9	820.9	837.6	873.6	880.2	836.1	759.1	670.0	600.1
32.5°	871.0	872.6	874.6	877.1	896.4	940.4	940.4	880.2	781.9	681.1	601.6
35°	931.3	931.8	936.4	936.9	964.2	1008.3	999.7	916.6	798.1	678.6	590.5
37.5°	967.8	969.8	974.4	980.4	1009.3	1071.6	1051.8	948.0	801.2	661.9	565.2
40°	1012.8	1016.9	1021.5	1027.5	1070.6	1135.9	1095.9	967.8	788.5	629.0	527.2
42.5°	1061.5	1067.0	1074.1	1085.3	1136.4	1192.6	1129.3	970.8	759.6	592.0	482.1
45°	1116.2	1126.3	1134.4	1147.6	1205.3	1241.7	1149.6	953.1	723.2	543.4	434.0
47.5°	1179.5	1187.6	1201.7	1215.9	1273.7	1275.2	1151.6	918.6	673.5	494.8	382.9
50°	1257.4	1262.5	1283.8	1292.4	1346.6	1310.1	1136.9	872.1	621.4	440.1	326.1
52.5°	1361.3	1368.4	1395.7	1408.9	1447.4	1357.7	1116.2	821.4	561.6	378.8	267.9
55°	1566.4	1597.3	1616.5	1639.3	1664.1	1465.6	1107.0	767.2	494.3	307.9	212.2
57.5°	2142.2	2132.0	2174.6	2226.2	2225.7	1712.2	1161.7	720.6	414.8	235.5	163.1
60°	3000.0	3009.7	2987.9	3018.8	2920.5	2018.1	1236.7	671.5	325.1	175.2	124.6
62.5°	3637.6	3581.9	3551.0	3514.6	3298.3	2051.5	1182.0	570.7	236.5	123.1	95.7
65°	3788.5	3723.2	3656.9	3587.5	3261.4	1849.5	969.8	418.8	152.9	84.6	76.0
67.5°	3639.7	3534.8	3450.3	3378.8	2988.4	1532.9	709.0	257.3	87.6	68.4	64.8
70°	3253.8	3137.8	3001.1	2921.0	2516.4	1129.8	454.3	138.8	67.4	60.8	59.3
72.5°	2381.7	2286.5	2137.1	2045.4	1806.9	686.7	253.7	78.0	62.8	58.2	56.2
75°	927.8	878.1	815.8	820.9	732.8	303.9	115.0	67.4	61.3	57.2	55.2
77.5°	159.5	155.5	143.8	143.8	163.6	110.9	76.5	67.9	60.8	56.2	52.7
80°	95.7	93.7	89.1	88.1	85.1	78.0	73.4	68.9	59.8	53.2	48.6
82.5°	62.8	60.3	58.7	58.2	63.3	68.4	68.9	68.4	56.7	46.1	39.5
85°	26.8	26.8	26.8	27.3	36.5	55.2	56.7	60.8	46.6	36.0	28.4
87.5°	4.6	5.6	5.6	6.1	6.6	12.2	15.2	19.8	15.7	15.2	13.7
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°	465.4	465.4	465.4
2.5°	452.7	451.7	451.7
5°	451.2	450.2	450.7
7.5°	457.3	455.3	455.8
10°	468.4	466.4	465.4
12.5°	482.6	480.1	480.1
15°	497.3	491.2	490.7
17.5°	509.5	501.9	500.9
20°	523.1	513.0	511.5
22.5°	535.8	522.1	520.1
25°	544.9	528.2	525.7
27.5°	549.0	529.2	527.2
30°	552.0	529.7	526.7
32.5°	549.0	525.2	522.6
35°	532.2	506.4	504.9
37.5°	503.4	474.5	472.5
40°	465.4	435.0	430.0
42.5°	416.8	388.4	382.9
45°	369.7	337.3	334.7
47.5°	319.0	288.2	289.7
50°	265.9	238.0	237.5
52.5°	215.2	190.9	189.4
55°	169.7	152.4	150.9
57.5°	134.2	125.1	123.6
60°	109.4	104.8	103.3
62.5°	88.1	86.6	86.1
65°	73.4	73.4	73.4
67.5°	63.8	64.3	64.3
70°	58.7	59.3	58.7
72.5°	56.7	58.2	58.2
75°	55.2	56.2	54.2
77.5°	54.2	54.7	51.1
80°	53.7	53.2	46.6
82.5°	46.6	45.1	39.5
85°	42.5	32.4	27.3
87.5°	21.8	15.2	11.6
90°	0.0	0.0	0.0

(END OF REPORT)