

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: P181292

Luminaire Tested: **ICS-F02-LED-E1-T2-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181292
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-F02-LED-E1-T2-8030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3842.7 lumens
Efficiency: N/A
Efficacy: 69.9 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

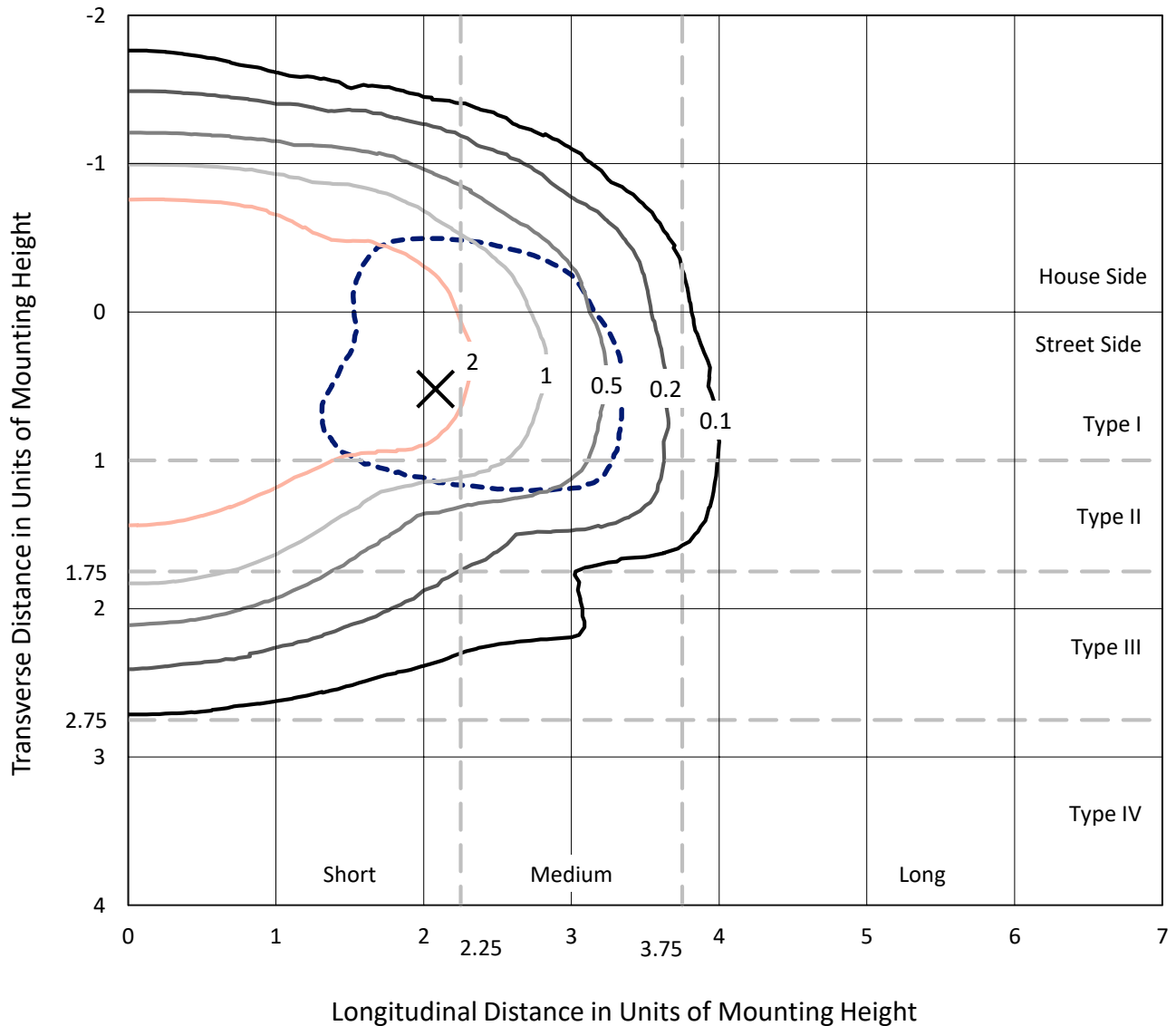
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

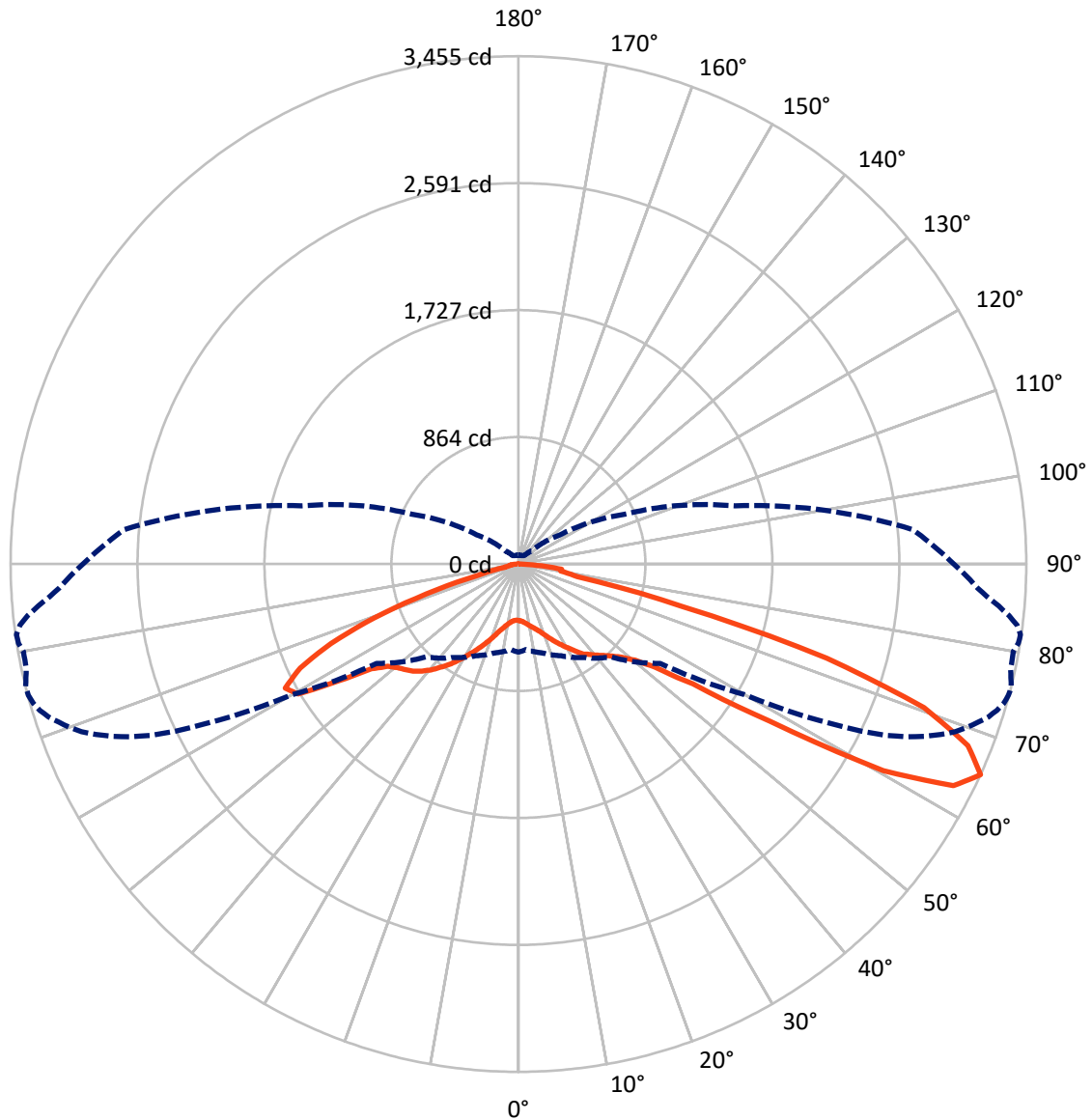
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 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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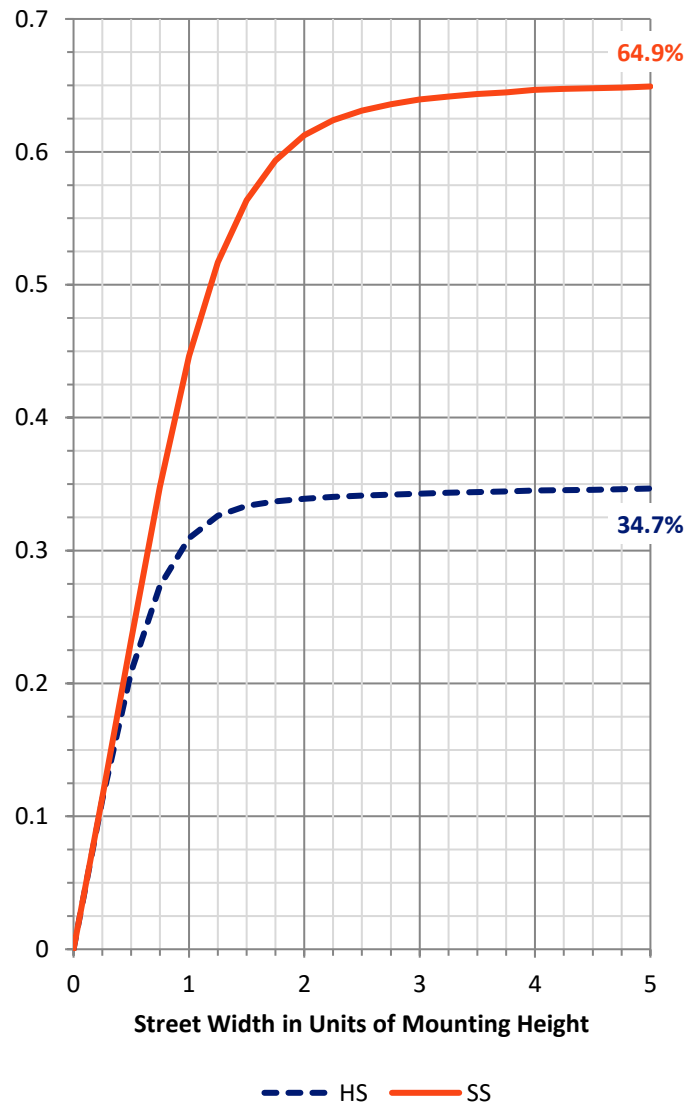
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1345.6	0.0	1345.6
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	2497.1	0.0	2497.1
	% Fixture	65.0	0.0	65.0
Total	Lumens	3842.7	0.0	3842.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	1.0
10°-20°	132.1	3.4
20°-30°	259.6	6.8
30°-40°	431.4	11.2
40°-50°	633.9	16.5
50°-60°	877.6	22.8
60°-70°	1047.5	27.3
70°-80°	370.4	9.6
80°-90°	51.8	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°	3842.7	100.0
0°-180°	3842.7	100.0



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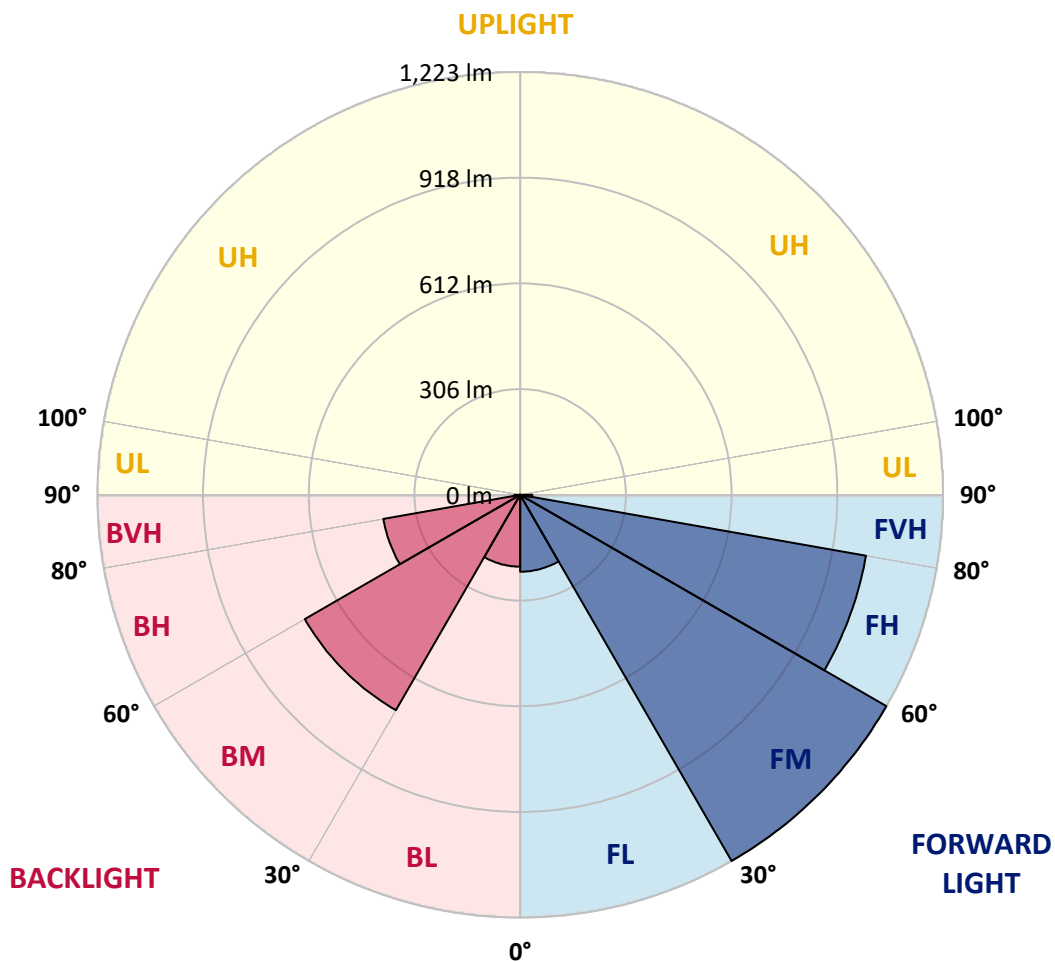
CATALOG NUMBER: ICS-F02-LED-E1-T2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	222.3	5.8			
FM (30°-60°)	1223.4	31.8			
FH (60°-80°)	1016.0	26.4			G1/1800
FVH (80°-90°)	35.4	0.9			G1/100
BL (0°-30°)	207.9	5.4	B1/500		
BM (30°-60°)	719.4	18.7	B1/1000		
BH (60°-80°)	401.9	10.5	B1/500		G1/500
BVH (80°-90°)	16.4	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°	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2
2.5°	400.9	401.3	400.5	400.1	398.8	396.7	395.1	393.4	393.4	393.4	392.1
5°	418.5	419.3	417.6	416.4	412.6	410.5	407.6	405.5	404.7	404.3	403.0
7.5°	440.6	439.4	436.9	436.0	433.1	428.5	423.1	418.9	418.9	418.5	418.9
10°	462.8	459.5	458.2	456.9	452.3	446.5	440.2	435.6	435.2	434.8	433.5
12.5°	485.0	483.7	482.4	477.8	473.2	464.1	456.9	452.3	451.9	452.3	450.7
15°	514.2	511.3	510.0	502.1	492.1	482.0	473.2	469.1	467.8	468.2	467.0
17.5°	536.8	536.8	533.9	525.1	512.1	498.3	489.1	486.6	486.2	486.2	486.6
20°	554.8	554.4	551.4	544.3	528.9	515.1	510.5	509.6	509.2	509.2	510.5
22.5°	564.8	564.0	562.7	554.8	542.6	533.4	533.9	536.4	537.2	538.0	539.7
25°	569.8	568.6	568.1	562.7	553.9	552.7	560.2	566.9	568.6	570.2	572.3
27.5°	578.2	576.1	576.9	574.8	572.7	576.5	592.0	599.1	600.3	602.4	603.7
30°	601.2	600.3	603.7	604.5	606.2	611.6	625.8	632.5	635.5	635.5	641.3
32.5°	645.1	645.5	646.3	655.1	658.0	661.8	669.3	674.8	675.2	675.6	681.0
35°	704.0	706.5	713.6	721.2	728.3	727.8	723.3	726.2	724.1	726.6	727.0
37.5°	778.4	775.1	785.5	802.7	813.6	810.6	790.1	776.8	780.5	778.9	777.6
40°	835.7	839.5	859.5	882.1	890.5	899.7	872.9	849.9	846.6	840.3	836.5
42.5°	914.7	915.1	931.4	948.2	972.4	992.5	975.3	942.3	932.3	924.8	908.5
45°	987.9	986.6	1000.0	1020.5	1049.3	1078.2	1084.5	1048.5	1044.7	1031.4	1010.0
47.5°	1036.8	1035.1	1044.3	1071.1	1117.9	1165.1	1191.1	1180.2	1173.1	1167.7	1134.2
50°	1069.8	1066.5	1076.9	1105.4	1157.6	1230.4	1298.1	1307.3	1304.4	1304.4	1283.0
52.5°	1094.5	1094.5	1102.0	1125.0	1178.1	1268.8	1390.1	1436.5	1440.2	1444.4	1443.2
55°	1080.7	1082.8	1101.6	1135.0	1191.1	1295.6	1466.2	1567.7	1588.6	1606.2	1626.3
57.5°	1033.5	1040.6	1065.6	1120.4	1194.4	1315.6	1550.6	1751.7	1810.6	1861.6	1941.1
60°	964.5	973.7	1010.0	1079.9	1169.7	1283.0	1580.3	1907.2	2000.9	2112.1	2319.4
62.5°	846.2	855.4	890.9	960.7	1037.6	1158.0	1457.4	1930.2	2079.9	2237.5	2551.0
65°	599.5	584.9	625.8	688.6	776.8	893.4	1177.7	1775.9	1991.2	2204.9	2592.0
67.5°	334.0	332.8	357.9	404.7	489.1	614.6	811.5	1362.1	1560.2	1802.3	2277.6
70°	230.4	232.9	248.7	299.3	369.2	477.4	578.2	855.4	997.9	1162.2	1629.6
72.5°	161.8	167.2	176.0	206.1	277.6	402.2	590.7	511.3	582.4	694.4	979.9
75°	94.9	98.7	104.9	119.6	158.0	268.8	611.6	449.4	449.4	475.8	592.8
77.5°	58.5	58.5	62.3	68.1	84.0	131.7	435.6	505.0	490.8	475.8	477.0
80°	30.1	32.2	37.6	40.6	46.8	60.2	195.7	471.2	516.7	547.2	525.9
82.5°	13.8	15.5	23.0	24.7	27.2	31.8	67.3	268.0	359.1	472.8	590.7
85°	7.1	7.1	12.1	15.1	16.3	14.6	24.7	108.3	163.9	250.0	391.3
87.5°	1.3	1.3	2.1	2.5	3.8	3.3	4.2	6.3	10.5	11.3	11.7
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2
2.5°	391.7	392.1	391.7	391.3	390.5	390.5	390.5	390.1	390.1	390.1	389.6
5°	403.0	401.3	401.8	400.9	400.5	400.1	400.5	399.7	398.8	399.3	398.8
7.5°	417.2	416.4	414.7	414.7	414.3	413.5	413.5	412.2	411.8	411.0	410.5
10°	433.1	431.0	431.9	431.0	431.4	429.8	428.9	428.1	427.3	427.3	427.7
12.5°	449.4	449.0	447.7	446.9	446.9	445.7	446.1	445.7	444.4	444.0	442.7
15°	466.1	466.1	464.9	465.3	464.9	464.1	463.2	463.2	462.4	461.5	462.0
17.5°	485.8	485.8	485.8	485.8	486.2	485.0	485.4	484.5	483.7	485.4	485.4
20°	511.3	513.0	513.0	512.5	514.6	513.4	513.0	515.1	513.0	515.9	515.5
22.5°	540.6	542.2	542.2	543.9	544.3	545.6	546.4	545.6	547.2	548.9	548.9
25°	573.2	574.8	576.1	578.6	579.9	579.0	579.4	581.5	582.4	584.0	585.7
27.5°	607.4	607.9	609.5	612.5	614.6	615.4	615.8	619.2	619.6	620.4	622.1
30°	640.9	645.1	644.2	648.0	649.3	650.5	653.0	654.3	657.2	658.9	658.9
32.5°	680.2	679.4	682.7	685.6	687.7	689.8	691.9	693.6	695.2	696.1	700.3
35°	729.1	730.8	730.8	731.2	736.2	736.6	738.3	742.1	743.3	745.8	747.5
37.5°	777.6	774.7	774.3	774.3	772.6	773.8	774.3	774.7	776.3	776.8	778.4
40°	831.9	828.2	824.8	822.8	819.4	814.8	814.0	811.9	813.1	812.7	813.1
42.5°	906.4	895.9	888.0	882.1	875.4	870.4	866.6	861.2	857.4	852.9	852.0
45°	1001.3	981.6	968.2	958.6	949.0	935.2	927.3	918.9	911.4	903.9	897.6
47.5°	1125.8	1104.9	1083.6	1066.1	1051.0	1028.9	1006.3	993.7	979.1	966.1	956.9
50°	1272.6	1247.5	1237.5	1212.8	1194.0	1160.5	1132.5	1112.1	1082.8	1063.1	1046.0
52.5°	1422.7	1416.4	1411.0	1390.1	1367.9	1348.7	1324.0	1288.1	1258.4	1235.8	1200.7
55°	1627.1	1630.0	1627.9	1616.7	1608.7	1590.3	1580.3	1548.9	1535.5	1502.9	1466.2
57.5°	1971.2	1994.6	2024.3	2036.0	2051.9	2036.8	2054.4	2075.7	2022.6	2041.0	2008.0
60°	2410.6	2518.0	2582.0	2660.6	2712.0	2783.9	2796.8	2815.7	2810.2	2820.7	2842.0
62.5°	2679.0	2806.5	2929.0	3018.0	3113.3	3166.0	3229.5	3273.9	3319.8	3350.8	3342.0
65°	2758.0	2889.2	3000.4	3097.9	3183.1	3247.5	3306.5	3362.1	3404.3	3434.0	3451.5
67.5°	2467.8	2639.2	2756.3	2870.4	2980.4	3048.1	3097.4	3151.4	3213.2	3264.7	3274.7
70°	1857.0	2114.1	2280.1	2416.8	2546.0	2637.1	2706.1	2756.3	2804.4	2841.2	2881.3
72.5°	1161.4	1386.3	1576.1	1753.4	1890.5	2015.9	2074.0	2185.2	2170.6	2198.6	2228.7
75°	696.1	805.6	910.1	1035.1	1107.0	1211.5	1230.4	1248.8	1239.1	1207.8	1231.2
77.5°	483.7	501.7	500.8	493.7	486.2	467.8	444.0	431.0	422.2	409.7	414.7
80°	486.6	447.7	388.4	326.5	269.7	232.0	217.0	217.0	232.4	254.6	276.8
82.5°	581.5	540.1	481.6	403.0	319.4	260.0	220.3	204.4	207.4	229.9	258.4
85°	392.1	401.3	352.0	321.9	255.0	198.6	166.4	135.0	119.6	123.3	139.6
87.5°	14.2	17.1	6.3	8.4	5.9	5.0	5.0	5.4	3.8	4.6	4.2
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2
2.5°	389.2	388.8	388.8	388.0	388.0	387.5	387.5	387.1	386.7	386.7	386.3
5°	398.4	398.0	397.2	396.7	395.9	395.9	395.5	394.7	394.7	393.8	393.4
7.5°	411.4	410.5	409.7	409.3	408.9	407.6	407.6	406.8	406.8	405.9	405.5
10°	426.8	426.0	425.2	425.6	424.3	423.9	423.1	423.1	421.8	421.4	421.4
12.5°	443.6	443.1	443.1	441.9	441.5	441.1	439.4	439.4	439.4	438.5	439.0
15°	461.5	462.0	460.7	462.0	461.5	460.3	460.3	460.3	458.6	460.7	459.0
17.5°	485.8	487.0	486.2	486.6	485.8	485.8	486.2	485.8	486.6	486.6	489.1
20°	515.9	516.3	518.4	517.6	517.6	517.1	518.0	518.4	520.1	519.2	520.9
22.5°	548.9	551.0	551.4	553.1	553.1	552.7	553.5	555.2	556.0	557.3	556.9
25°	586.5	587.8	589.5	587.4	590.7	590.7	591.6	593.7	594.1	594.1	597.0
27.5°	621.7	625.0	625.4	627.5	626.3	627.1	630.0	631.3	632.9	632.9	633.8
30°	661.4	662.6	663.5	666.0	665.6	666.0	666.4	668.5	668.5	670.6	672.7
32.5°	702.3	703.2	704.0	706.5	707.4	709.0	708.2	709.9	712.0	712.4	713.6
35°	751.3	752.1	752.9	756.7	757.1	760.0	760.9	760.0	763.4	761.3	763.4
37.5°	779.7	783.5	784.3	786.8	786.0	788.1	789.3	791.0	791.8	793.5	796.8
40°	814.4	815.6	818.2	819.4	821.1	821.5	823.2	824.4	825.7	829.4	833.2
42.5°	849.9	851.6	852.9	854.5	856.6	858.3	859.5	863.3	864.1	866.6	873.8
45°	893.0	892.1	892.6	893.0	893.8	895.9	899.7	903.4	905.9	911.8	917.7
47.5°	946.5	941.1	939.0	935.6	936.5	941.1	941.9	948.2	953.2	958.6	965.7
50°	1027.6	1013.0	1004.2	995.4	994.6	997.1	1000.4	1007.1	1013.0	1020.1	1030.1
52.5°	1163.9	1135.9	1118.3	1094.1	1087.4	1086.1	1083.6	1087.4	1089.1	1098.7	1117.5
55°	1439.8	1388.0	1354.5	1316.9	1281.8	1271.3	1251.3	1255.4	1251.3	1257.1	1285.1
57.5°	2015.9	1974.5	1941.9	1893.8	1833.6	1769.7	1753.8	1688.1	1701.1	1738.7	1714.5
60°	2852.5	2837.4	2814.0	2791.0	2708.6	2662.2	2586.6	2578.2	2525.1	2525.5	2490.8
62.5°	3320.7	3339.9	3325.7	3319.0	3314.4	3299.8	3262.2	3217.0	3149.3	3100.4	3028.5
65°	3454.5	3438.2	3422.7	3420.6	3419.3	3443.2	3448.6	3416.8	3355.4	3279.3	3196.5
67.5°	3298.5	3289.3	3290.2	3272.6	3283.5	3324.9	3353.7	3344.9	3288.5	3196.5	3091.2
70°	2927.3	2909.3	2927.7	2950.7	2967.0	2990.8	3019.7	3026.8	2975.4	2880.9	2773.4
72.5°	2191.9	2194.8	2212.4	2218.7	2284.3	2277.6	2303.5	2219.1	2181.9	2092.0	2036.8
75°	1153.4	1134.6	1183.5	1079.9	1037.2	1066.9	983.7	903.9	920.6	934.4	834.9
77.5°	407.6	381.3	336.5	318.6	265.1	224.5	183.5	165.6	155.9	150.9	144.7
80°	292.6	301.0	291.8	270.1	229.5	183.9	145.1	114.5	98.2	89.5	83.6
82.5°	296.0	329.0	343.6	337.4	300.6	227.4	150.1	95.7	71.1	59.4	55.2
85°	158.9	173.9	167.2	140.9	126.7	75.7	51.8	34.7	29.3	26.8	24.7
87.5°	6.3	5.0	4.2	4.2	4.6	5.0	4.2	4.6	4.2	4.2	4.2
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2
2.5°	385.5	385.5	385.5	385.0	384.2	382.1	380.0	378.3	377.1	375.8	374.2
5°	393.0	392.1	392.1	392.1	388.8	385.5	382.5	379.6	377.1	375.0	373.3
7.5°	405.5	405.1	403.4	403.0	400.5	395.1	391.7	386.7	383.8	380.9	380.0
10°	420.6	420.2	419.7	419.3	416.0	410.5	406.4	401.8	397.6	393.4	389.2
12.5°	438.1	437.7	437.3	436.0	434.8	431.9	427.3	422.2	417.2	408.4	403.8
15°	459.9	460.7	459.9	459.5	458.6	459.0	456.1	449.0	441.1	429.8	420.2
17.5°	488.7	487.9	487.5	489.1	488.7	490.8	490.0	480.8	468.6	450.7	434.0
20°	520.5	520.5	522.2	523.4	527.2	532.6	530.1	518.8	496.7	471.6	449.8
22.5°	558.5	559.4	561.0	560.2	566.1	574.8	575.7	559.8	530.9	496.2	465.7
25°	598.2	599.1	597.4	599.9	609.5	622.1	624.6	602.0	564.0	518.8	479.1
27.5°	635.9	636.7	636.7	640.1	649.3	670.6	673.1	648.0	597.4	538.5	488.7
30°	672.7	676.0	676.8	677.7	691.5	721.2	726.6	690.2	626.7	553.1	495.4
32.5°	719.1	720.3	722.0	724.1	740.0	776.3	776.3	726.6	645.5	562.3	496.7
35°	768.8	769.2	773.0	773.4	796.0	832.4	825.3	756.7	658.9	560.2	487.5
37.5°	798.9	800.6	804.4	809.4	833.2	884.6	868.3	782.6	661.4	546.4	466.6
40°	836.1	839.5	843.2	848.3	883.8	937.7	904.7	798.9	650.9	519.2	435.2
42.5°	876.3	880.9	886.7	895.9	938.1	984.5	932.3	801.4	627.1	488.7	398.0
45°	921.4	929.8	936.5	947.3	995.0	1025.1	949.0	786.8	597.0	448.6	358.3
47.5°	973.7	980.4	992.1	1003.8	1051.4	1052.7	950.7	758.4	556.0	408.4	316.1
50°	1038.1	1042.2	1059.8	1066.9	1111.6	1081.5	938.6	719.9	513.0	363.3	269.2
52.5°	1123.8	1129.6	1152.2	1163.1	1194.8	1120.8	921.4	678.1	463.6	312.7	221.2
55°	1293.1	1318.6	1334.5	1353.3	1373.8	1209.9	913.9	633.4	408.0	254.2	175.2
57.5°	1768.4	1760.0	1795.2	1837.8	1837.4	1413.5	959.0	594.9	342.4	194.4	134.6
60°	2476.6	2484.6	2466.6	2492.1	2411.0	1666.0	1020.9	554.4	268.4	144.7	102.8
62.5°	3003.0	2957.0	2931.5	2901.4	2722.9	1693.6	975.8	471.2	195.2	101.6	79.0
65°	3127.5	3073.6	3018.8	2961.6	2692.3	1526.8	800.6	345.7	126.3	69.8	62.7
67.5°	3004.6	2918.1	2848.3	2789.3	2467.0	1265.5	585.3	212.4	72.3	56.4	53.5
70°	2686.1	2590.3	2477.4	2411.4	2077.4	932.7	375.0	114.5	55.6	50.2	48.9
72.5°	1966.2	1887.6	1764.2	1688.6	1491.7	566.9	209.5	64.4	51.8	48.1	46.4
75°	765.9	724.9	673.5	677.7	604.9	250.8	94.9	55.6	50.6	47.2	45.6
77.5°	131.7	128.3	118.7	118.7	135.0	91.6	63.1	56.0	50.2	46.4	43.5
80°	79.0	77.3	73.6	72.7	70.2	64.4	60.6	56.9	49.3	43.9	40.1
82.5°	51.8	49.7	48.5	48.1	52.3	56.4	56.9	56.4	46.8	38.0	32.6
85°	22.2	22.2	22.2	22.6	30.1	45.6	46.8	50.2	38.5	29.7	23.4
87.5°	3.8	4.6	4.6	5.0	5.4	10.0	12.5	16.3	13.0	12.5	11.3
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):

	165°	175°	180°
0°	384.2	384.2	384.2
2.5°	373.7	372.9	372.9
5°	372.5	371.7	372.1
7.5°	377.5	375.8	376.3
10°	386.7	385.0	384.2
12.5°	398.4	396.3	396.3
15°	410.5	405.5	405.1
17.5°	420.6	414.3	413.5
20°	431.9	423.5	422.2
22.5°	442.3	431.0	429.4
25°	449.8	436.0	434.0
27.5°	453.2	436.9	435.2
30°	455.7	437.3	434.8
32.5°	453.2	433.5	431.4
35°	439.4	418.1	416.8
37.5°	415.6	391.7	390.1
40°	384.2	359.1	354.9
42.5°	344.1	320.7	316.1
45°	305.2	278.4	276.3
47.5°	263.4	237.9	239.1
50°	219.5	196.5	196.1
52.5°	177.7	157.6	156.4
55°	140.1	125.8	124.6
57.5°	110.8	103.3	102.0
60°	90.3	86.5	85.3
62.5°	72.7	71.5	71.1
65°	60.6	60.6	60.6
67.5°	52.7	53.1	53.1
70°	48.5	48.9	48.5
72.5°	46.8	48.1	48.1
75°	45.6	46.4	44.7
77.5°	44.7	45.2	42.2
80°	44.3	43.9	38.5
82.5°	38.5	37.2	32.6
85°	35.1	26.8	22.6
87.5°	18.0	12.5	9.6
90°	0.0	0.0	0.0

(END OF REPORT)