

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: P180323

Luminaire Tested: **ICS-F01-LED-E1-RW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180323
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F01-LED-E1-RW
Description: ICON SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2321.1 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

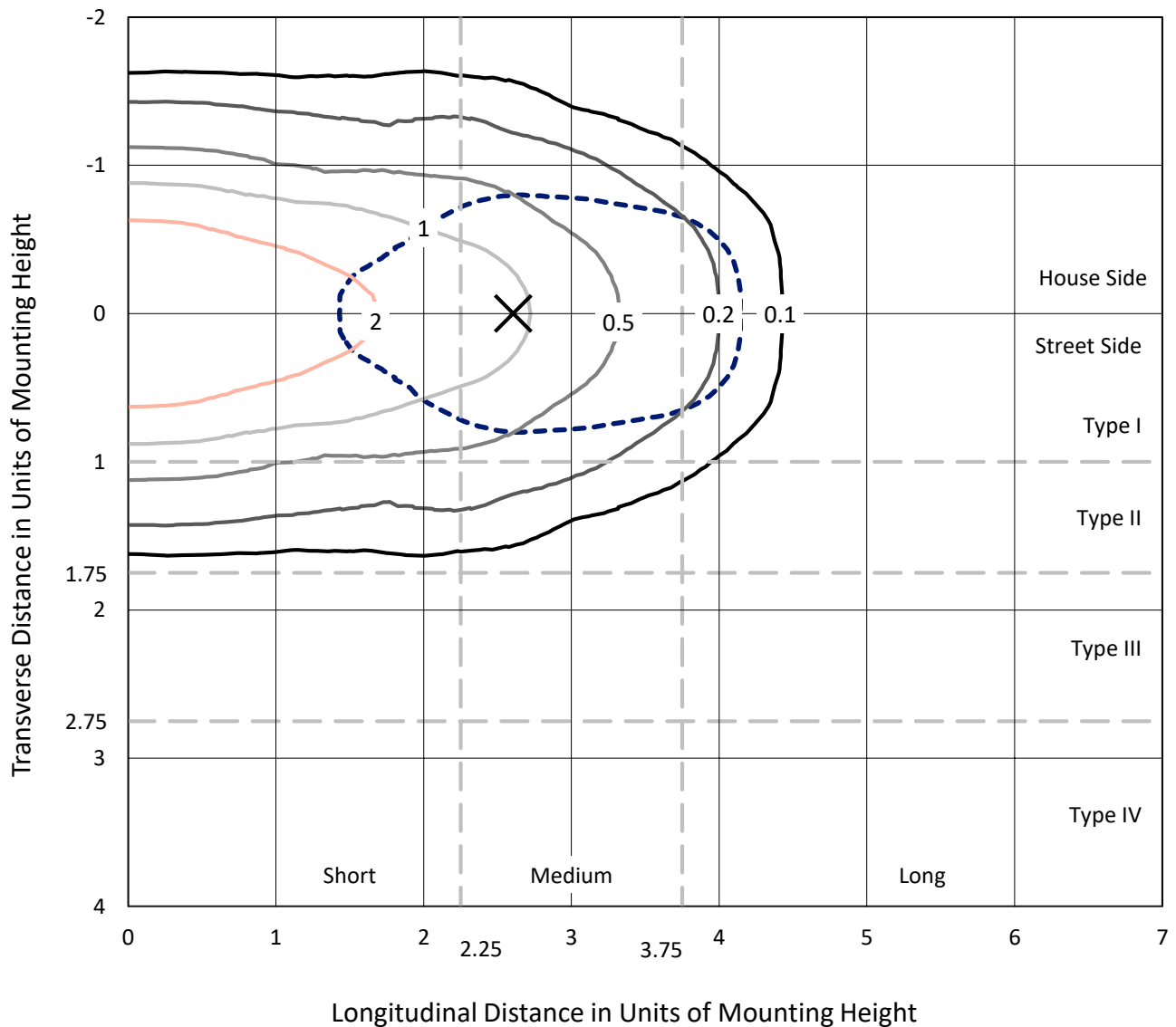
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

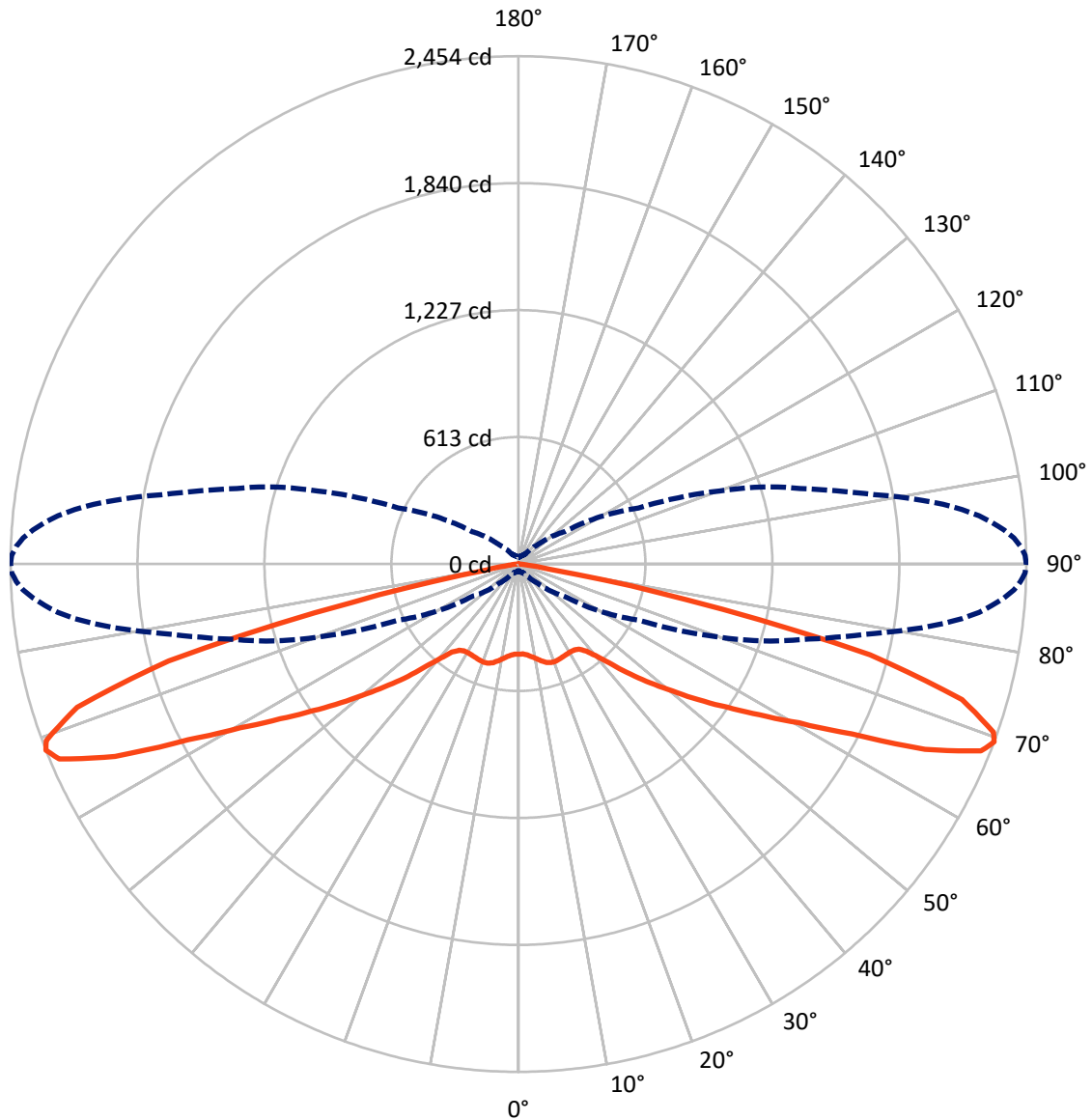
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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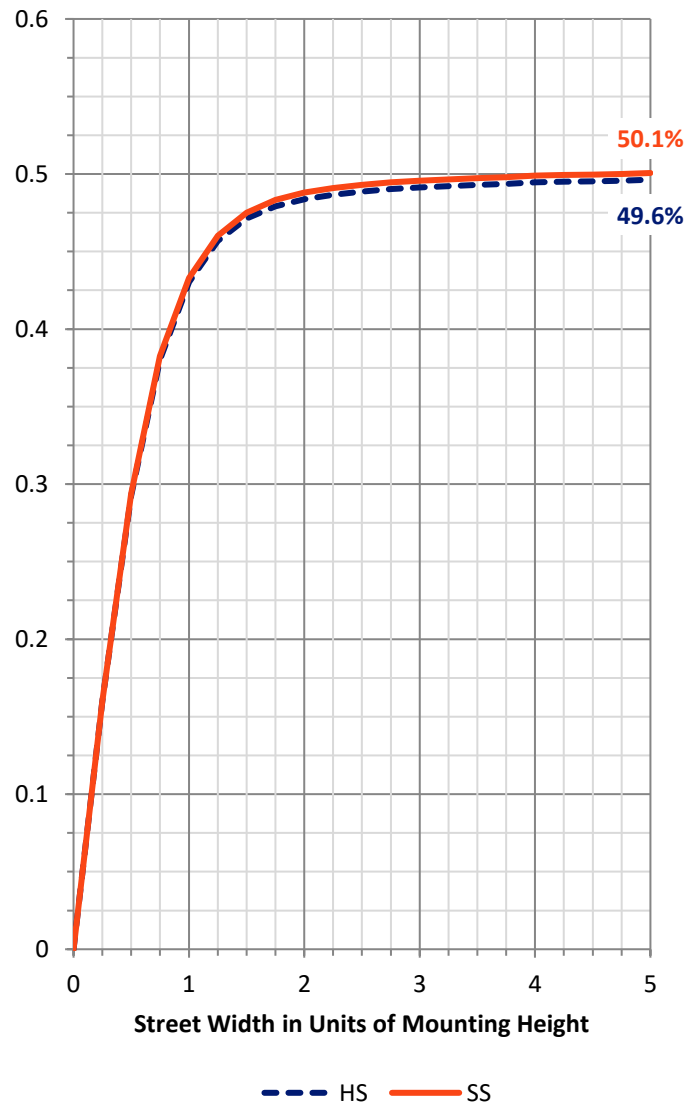
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1160.6	0.0	1160.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1160.6	0.0	1160.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	2321.1	0.0	2321.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	1.8
10°-20°	134.6	5.8
20°-30°	218.0	9.4
30°-40°	271.7	11.7
40°-50°	339.5	14.6
50°-60°	419.3	18.1
60°-70°	520.9	22.4
70°-80°	345.8	14.9
80°-90°	28.6	1.2
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°	2321.1	100.0
0°-180°	2321.1	100.0

Coefficient of Utilization



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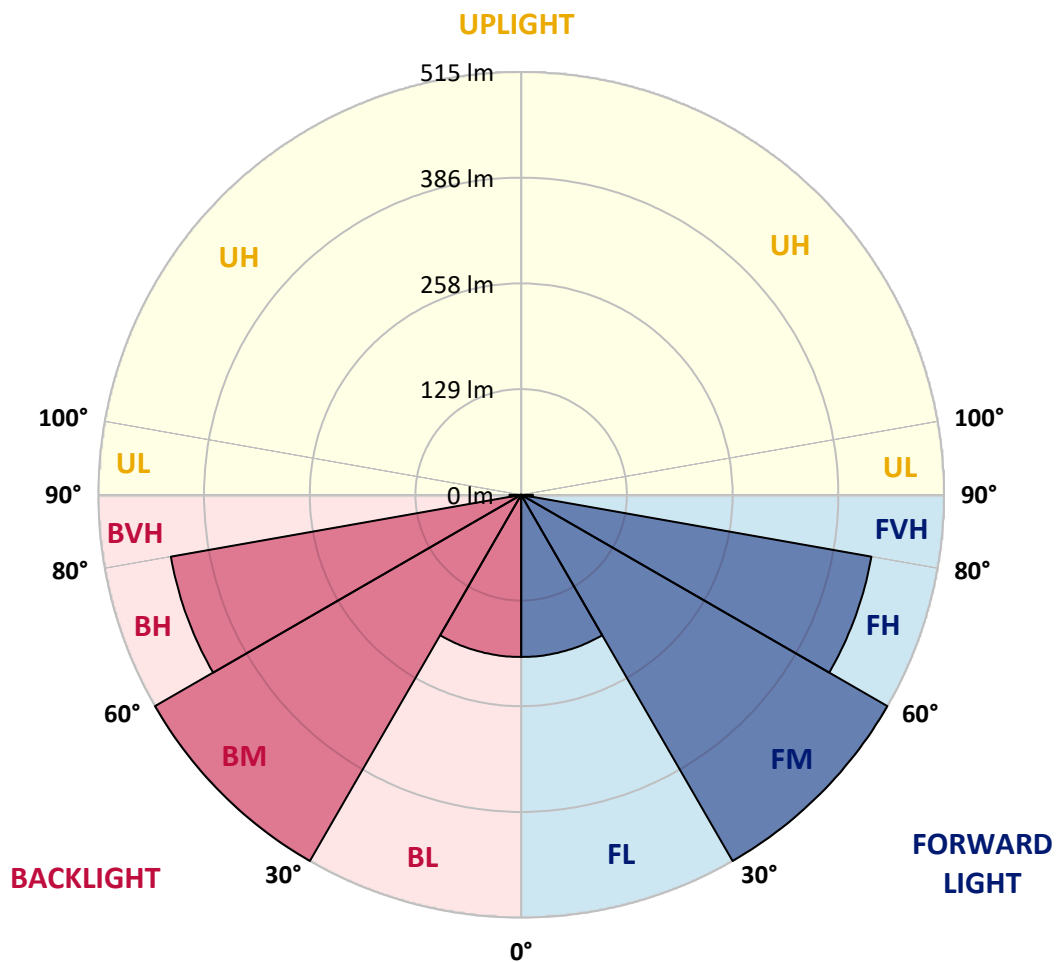
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	197.6	8.5			
FM (30°-60°)	515.3	22.2			
FH (60°-80°)	433.4	18.7			G0/660
FVH (80°-90°)	14.3	0.6			G1/100
BL (0°-30°)	197.6	8.5	B1/500		
BM (30°-60°)	515.3	22.2	B1/1000		
BH (60°-80°)	433.4	18.7	B1/500		G1/500
BVH (80°-90°)	14.3	0.6			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9
2.5°	436.9	437.2	437.0	437.5	437.4	437.4	437.2	436.6	436.4	436.1	436.2
5°	441.1	440.6	441.4	442.1	441.8	442.0	441.8	441.8	441.6	441.6	441.6
7.5°	445.6	445.4	446.0	448.0	448.2	448.9	449.8	450.4	450.5	450.6	450.5
10°	449.4	449.5	450.8	453.6	455.1	457.4	459.8	461.6	462.3	462.8	462.7
12.5°	452.5	452.6	454.5	459.0	462.6	467.0	472.0	474.9	476.2	476.4	476.6
15°	452.7	453.1	456.4	463.6	470.8	478.1	484.2	488.0	489.0	489.7	489.8
17.5°	449.6	449.8	455.2	466.0	478.0	489.4	495.7	497.4	497.8	498.1	497.9
20°	441.1	441.7	449.4	465.4	483.7	498.6	505.1	502.8	501.6	501.5	501.3
22.5°	427.5	427.4	437.4	459.0	484.8	505.8	511.6	505.4	501.8	501.0	500.5
25°	405.4	406.9	418.7	444.4	478.5	507.4	516.2	506.7	501.4	500.3	498.9
27.5°	381.6	382.4	395.0	422.6	463.8	501.8	518.4	509.4	503.6	501.9	500.3
30°	353.6	354.8	368.2	397.0	440.2	487.4	517.8	515.7	508.8	506.8	504.7
32.5°	326.5	327.6	339.6	371.3	415.2	467.7	514.0	524.4	517.4	515.2	513.0
35°	298.2	300.0	314.6	346.6	391.2	445.8	508.4	535.7	531.8	529.9	528.0
37.5°	274.8	275.2	289.2	322.8	368.9	424.8	500.8	550.0	552.8	552.8	553.0
40°	248.6	251.0	265.2	300.6	348.8	407.2	493.6	569.2	584.0	586.8	588.9
42.5°	225.2	225.5	239.8	276.4	326.8	393.0	489.6	592.6	624.2	630.0	635.8
45°	200.6	201.6	214.6	249.9	301.5	376.1	489.5	619.4	670.0	679.7	688.6
47.5°	177.4	177.7	191.4	224.2	272.6	352.6	488.6	648.3	717.1	731.4	743.1
50°	155.0	154.6	168.2	199.8	244.0	321.8	481.1	681.0	767.8	784.1	798.5
52.5°	129.6	131.3	145.2	175.4	218.0	290.4	459.1	716.8	820.7	839.5	857.6
55°	104.6	105.2	120.2	148.5	191.6	261.2	420.6	749.7	872.2	893.5	913.7
57.5°	77.1	79.2	92.4	120.2	164.8	236.5	371.9	766.8	915.8	940.5	964.4
60°	54.4	56.1	67.7	91.2	135.4	210.6	329.9	757.2	951.0	982.4	1011.2
62.5°	42.4	43.8	53.0	68.2	105.6	184.8	299.8	726.4	989.9	1031.0	1070.2
65°	37.2	38.4	46.8	54.6	78.8	158.4	283.3	693.8	1042.2	1102.7	1157.3
67.5°	33.6	35.0	42.4	47.8	64.3	138.2	279.0	673.3	1067.8	1146.6	1220.3
69°	32.0	33.4	40.0	44.6	59.7	131.0	271.6	641.0	1033.2	1117.4	1197.9
70°	31.0	32.2	38.2	42.9	58.2	126.0	259.2	600.6	985.8	1070.8	1154.9
72.5°	28.7	29.4	34.6	39.2	54.0	102.0	199.4	446.0	780.0	862.9	944.5
75°	25.4	26.1	31.1	35.6	42.1	63.3	126.2	275.9	525.2	586.9	662.7
77.5°	21.9	22.5	26.9	34.0	32.7	39.5	75.4	153.6	298.1	334.0	383.3
80°	17.6	18.3	22.2	33.7	27.0	30.7	54.2	107.4	146.4	157.1	168.9
82.5°	12.9	13.5	17.3	27.2	20.7	23.2	41.4	91.0	104.6	109.4	111.8
85°	6.6	6.7	11.0	16.6	13.1	12.0	23.3	62.3	70.9	72.2	74.0
87.5°	1.1	1.1	2.5	2.8	3.2	2.0	3.0	10.6	12.3	12.2	13.3
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9
2.5°	436.3	436.3	436.4	436.4	436.6	436.1	436.0	435.9	435.9	436.2	435.9
5°	441.6	441.6	441.8	441.9	441.9	441.6	441.5	441.6	441.2	441.1	441.4
7.5°	450.8	450.7	450.4	450.8	451.1	451.1	451.4	451.1	451.0	450.9	451.1
10°	463.1	463.1	463.2	463.6	463.9	463.9	464.2	463.9	463.8	464.0	464.0
12.5°	477.1	476.8	477.4	477.6	478.0	478.8	478.4	478.8	478.5	479.1	479.2
15°	490.2	490.4	490.9	491.1	491.2	491.8	491.9	492.2	491.8	491.8	492.9
17.5°	498.3	498.2	498.6	498.7	499.1	499.4	500.0	500.3	500.0	500.0	500.5
20°	501.1	500.7	500.8	501.0	501.0	501.3	501.8	501.8	501.8	501.9	502.4
22.5°	499.7	499.1	498.4	498.5	498.5	498.5	498.8	499.0	499.2	499.4	500.0
25°	497.8	496.4	495.2	495.1	494.8	494.8	495.0	495.0	495.2	495.6	496.1
27.5°	498.0	496.2	494.2	493.6	492.9	492.5	492.3	492.0	492.2	492.6	493.2
30°	502.3	499.3	496.6	495.7	494.8	493.9	493.2	492.4	491.8	492.2	492.5
32.5°	509.8	506.8	504.2	502.8	501.4	499.9	498.5	497.6	496.6	496.2	496.1
35°	525.5	523.2	520.8	519.3	517.0	515.8	514.2	511.8	510.1	510.0	509.0
37.5°	552.3	551.2	549.4	547.9	547.1	544.0	542.0	540.8	538.8	540.0	538.0
40°	590.7	592.6	594.2	593.3	593.5	592.7	591.5	592.7	591.3	591.0	591.3
42.5°	639.9	646.4	651.0	652.4	656.1	657.5	660.2	664.4	663.5	668.2	669.0
45°	697.0	706.3	715.4	722.2	729.6	737.9	746.3	753.0	758.1	757.8	763.6
47.5°	755.2	769.0	781.0	791.2	804.5	816.8	830.3	843.9	853.8	857.6	858.8
50°	814.1	830.0	846.5	861.5	879.4	899.1	920.4	941.6	952.3	961.0	966.8
52.5°	875.8	894.1	911.7	932.8	954.9	980.9	1007.5	1037.8	1053.8	1070.2	1078.8
55°	934.6	955.0	973.1	1001.3	1028.5	1059.5	1094.2	1132.4	1160.4	1179.6	1196.5
57.5°	987.9	1009.6	1031.9	1063.8	1098.4	1134.6	1178.6	1225.1	1255.4	1288.9	1319.0
60°	1040.1	1067.3	1093.0	1134.6	1175.8	1220.8	1275.6	1334.4	1381.4	1426.9	1461.5
62.5°	1109.2	1144.2	1176.1	1228.5	1282.3	1337.9	1403.0	1472.6	1540.8	1602.4	1649.1
65°	1211.2	1262.7	1310.4	1376.8	1444.7	1517.9	1595.7	1684.6	1766.4	1848.0	1914.9
67.5°	1288.8	1353.9	1415.2	1495.5	1575.4	1660.2	1754.2	1859.3	1960.4	2052.4	2134.0
69°	1273.5	1342.6	1409.0	1491.0	1574.0	1660.7	1755.5	1867.2	1972.4	2072.2	2159.7
70°	1227.2	1299.2	1368.0	1449.3	1533.5	1620.4	1719.6	1829.3	1936.9	2043.4	2131.7
72.5°	1017.1	1089.4	1156.2	1239.3	1324.1	1415.3	1509.3	1616.2	1731.1	1844.9	1922.3
75°	729.2	793.1	857.8	928.2	1010.8	1086.0	1172.0	1274.0	1370.6	1458.9	1518.1
77.5°	431.0	469.3	515.4	548.5	596.5	637.9	681.6	738.3	768.0	825.0	839.6
80°	175.6	174.5	181.4	174.6	176.2	170.6	164.7	163.6	154.3	166.0	157.2
82.5°	111.5	103.8	95.4	84.0	73.9	63.2	53.5	45.4	43.8	44.1	43.6
85°	73.5	70.1	62.6	52.7	42.9	34.5	27.6	21.8	21.5	21.2	21.0
87.5°	13.3	12.3	10.2	8.7	7.3	5.5	3.8	2.8	2.8	2.8	3.2
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):

	84°	85°	86°	87°	88°	89°	90°
0°	434.9	434.9	434.9	434.9	434.9	434.9	434.9
2.5°	435.9	435.9	435.8	436.0	435.9	435.6	435.2
5°	441.6	441.1	441.5	441.8	441.2	441.3	441.1
7.5°	451.2	451.0	451.1	450.8	450.5	450.9	451.3
10°	464.5	464.2	464.2	464.5	464.2	464.0	464.1
12.5°	479.5	479.5	479.4	479.5	479.4	479.0	478.7
15°	492.8	493.0	493.0	492.8	492.6	492.5	492.6
17.5°	500.9	500.8	500.8	500.8	500.6	500.8	501.0
20°	503.0	502.6	502.6	502.9	502.6	502.9	503.0
22.5°	500.2	500.2	500.2	500.3	500.6	500.6	500.8
25°	496.6	496.6	496.6	496.8	496.8	497.0	497.1
27.5°	493.8	493.8	493.8	494.0	494.0	494.1	494.4
30°	492.8	492.8	492.8	492.9	493.0	493.0	493.1
32.5°	496.2	495.8	495.7	495.5	495.2	495.2	495.1
35°	508.0	507.0	507.1	506.4	506.6	506.0	505.5
37.5°	536.6	535.6	534.4	533.0	532.2	533.2	533.2
40°	590.0	590.7	588.0	587.2	585.6	586.7	588.2
42.5°	669.6	670.4	670.8	666.8	666.6	665.8	663.3
45°	763.8	762.1	762.8	761.0	760.2	757.5	760.8
47.5°	863.5	864.6	860.2	858.7	861.3	856.8	857.4
50°	970.2	970.4	967.0	966.3	968.6	960.2	964.2
52.5°	1085.0	1085.6	1088.2	1085.1	1086.3	1084.3	1088.3
55°	1207.2	1216.6	1217.4	1220.8	1221.1	1225.1	1221.0
57.5°	1335.6	1346.2	1356.1	1369.6	1372.6	1371.0	1373.6
60°	1490.4	1517.9	1532.8	1554.0	1557.4	1566.6	1558.6
62.5°	1693.0	1735.9	1768.4	1784.8	1794.6	1813.8	1807.5
65°	1976.3	2027.4	2076.8	2100.2	2126.2	2153.5	2158.5
67.5°	2208.4	2265.2	2316.5	2357.2	2389.0	2409.0	2410.6
69°	2237.4	2297.8	2351.8	2397.0	2427.9	2448.5	2453.9
70°	2211.2	2273.0	2330.2	2373.4	2407.9	2428.8	2436.1
72.5°	2003.6	2077.1	2123.0	2167.0	2215.6	2221.8	2241.9
75°	1586.0	1652.0	1697.0	1708.6	1734.0	1765.9	1754.5
77.5°	827.2	856.0	865.4	845.2	844.2	862.9	825.7
80°	157.6	157.8	155.2	154.2	156.0	154.2	151.6
82.5°	44.4	43.8	43.4	44.4	44.4	44.2	45.1
85°	20.6	20.0	19.0	19.0	19.5	18.7	19.1
87.5°	2.8	2.4	2.4	2.4	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)