

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: P180316

Luminaire Tested: **ICS-E01-LED-E1-RW-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180316
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-E01-LED-E1-RW-8030
Description: ICON SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2373 lumens
Efficiency: N/A
Efficacy: 96.1 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

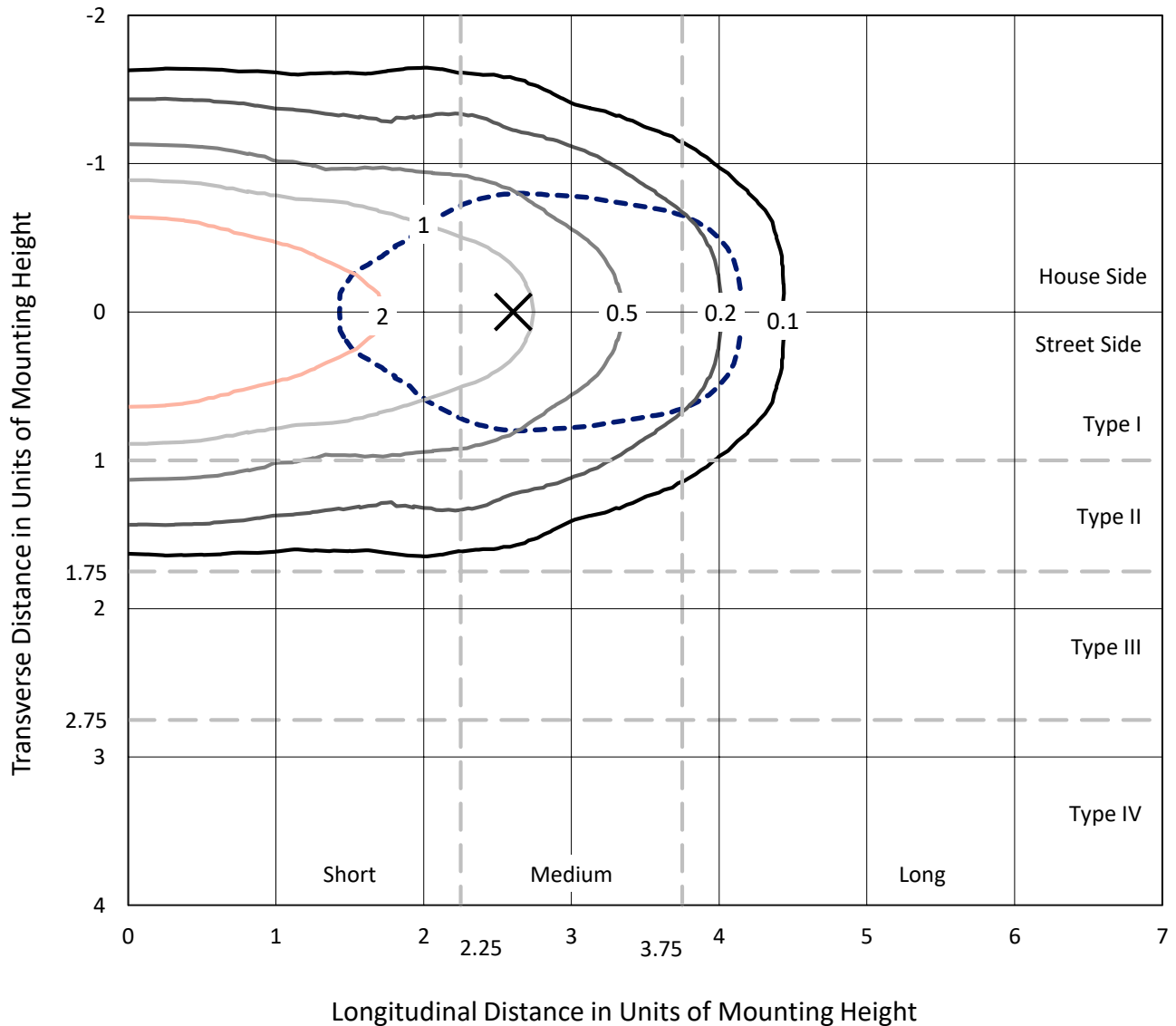
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

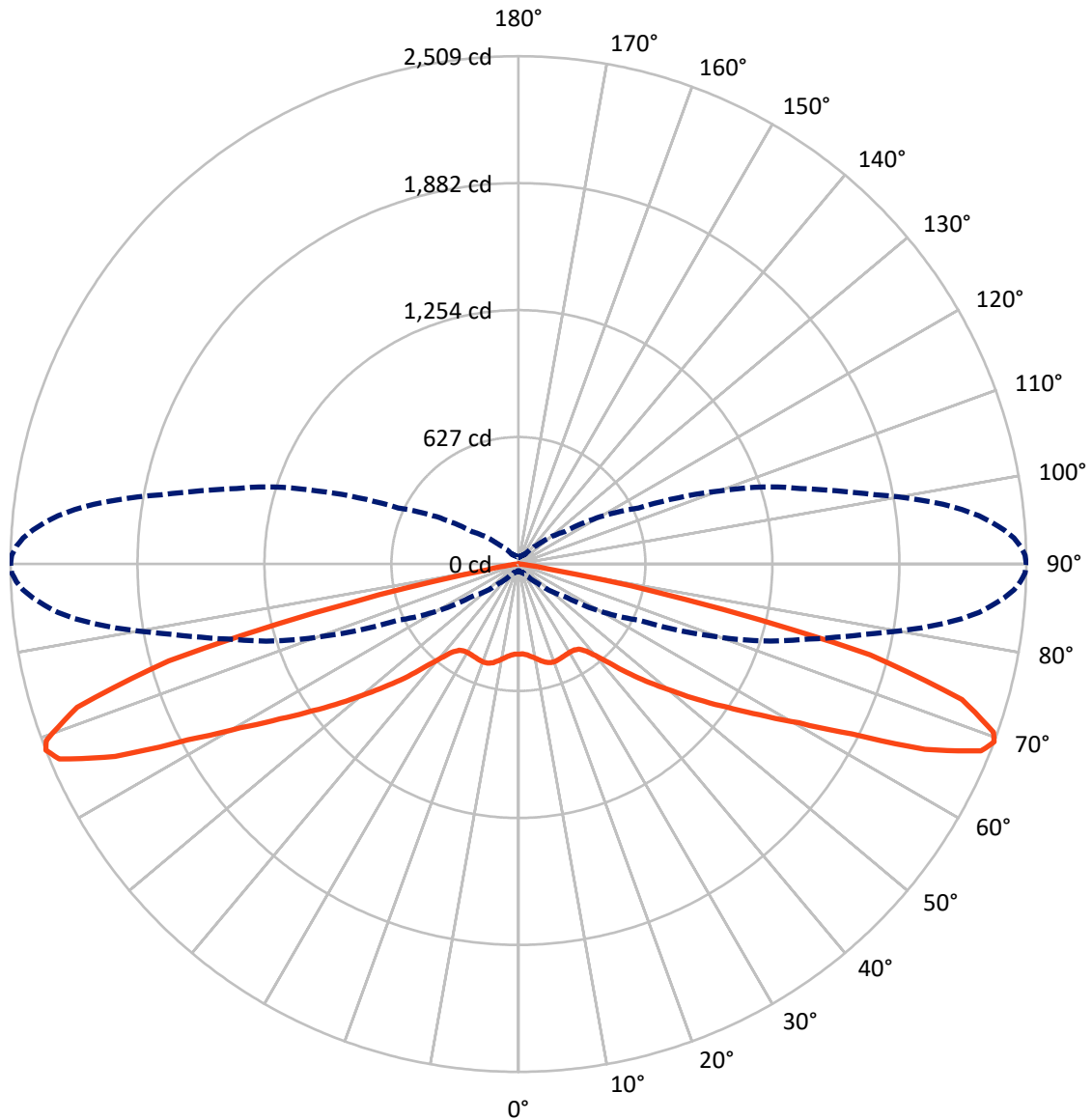
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 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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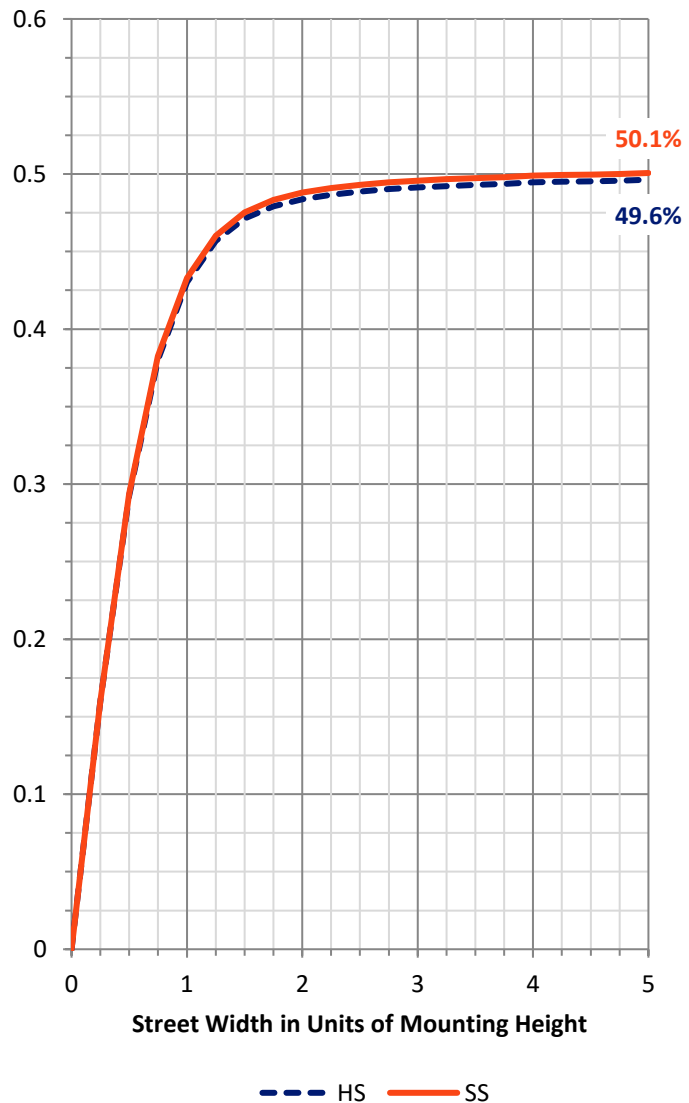
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1186.5	0.0	1186.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1186.5	0.0	1186.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	2373.0	0.0	2373.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	1.8
10°-20°	137.6	5.8
20°-30°	222.9	9.4
30°-40°	277.8	11.7
40°-50°	347.1	14.6
50°-60°	428.6	18.1
60°-70°	532.6	22.4
70°-80°	353.6	14.9
80°-90°	29.2	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°	2373.0	100.0
0°-180°	2373.0	100.0



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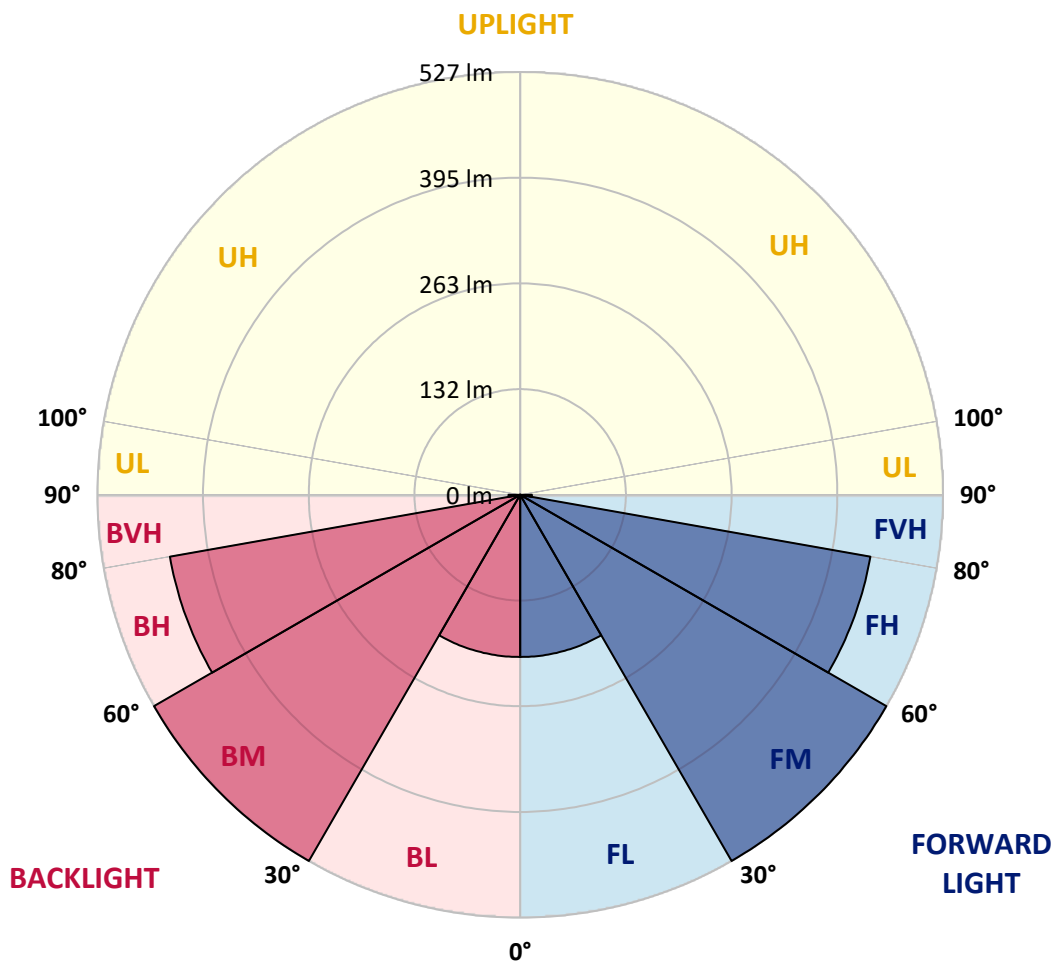
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	202.0	8.5			
FM	(30°-60°)	526.8	22.2			
FH	(60°-80°)	443.1	18.7			G0/660
FVH	(80°-90°)	14.6	0.6			G1/100
BL	(0°-30°)	202.0	8.5	B1/500		
BM	(30°-60°)	526.8	22.2	B1/1000		
BH	(60°-80°)	443.1	18.7	B1/500		G1/500
BVH	(80°-90°)	14.6	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°	444.6	444.6	444.6	444.6	444.6	444.6	444.6	444.6	444.6	444.6	444.6
2.5°	446.7	447.0	446.8	447.3	447.2	447.2	447.0	446.4	446.1	445.9	445.9
5°	451.0	450.5	451.2	452.0	451.8	451.8	451.7	451.8	451.5	451.4	451.4
7.5°	455.5	455.4	455.9	458.0	458.2	458.9	459.8	460.4	460.6	460.7	460.6
10°	459.4	459.6	460.8	463.8	465.3	467.7	470.1	472.0	472.7	473.1	473.1
12.5°	462.6	462.8	464.6	469.2	472.8	477.4	482.6	485.6	486.8	487.0	487.2
15°	462.8	463.2	466.6	474.0	481.4	488.8	495.0	499.0	499.9	500.6	500.7
17.5°	459.6	459.8	465.4	476.4	488.7	500.4	506.8	508.6	509.0	509.2	509.1
20°	451.0	451.6	459.4	475.8	494.5	509.7	516.4	514.0	512.8	512.7	512.5
22.5°	437.0	437.0	447.2	469.2	495.6	517.0	523.0	516.6	512.9	512.2	511.7
25°	414.5	416.0	428.0	454.4	489.2	518.7	527.7	518.0	512.7	511.5	510.0
27.5°	390.0	391.0	403.8	432.0	474.1	513.0	530.0	520.8	514.8	513.2	511.5
30°	361.6	362.7	376.4	405.9	450.0	498.3	529.4	527.2	520.2	518.2	516.0
32.5°	333.7	335.0	347.2	379.5	424.6	478.2	525.5	536.2	529.0	526.7	524.5
35°	304.9	306.8	321.8	354.4	400.0	455.8	519.7	547.7	543.7	541.8	539.8
37.5°	281.0	281.3	295.8	330.1	377.2	434.4	512.0	562.2	565.2	565.2	565.4
40°	254.2	256.6	271.0	307.3	356.5	416.2	504.6	582.0	597.1	599.9	602.0
42.5°	230.3	230.6	245.2	282.6	334.1	401.7	500.6	605.8	638.2	644.1	650.0
45°	205.1	206.1	219.4	255.5	308.3	384.5	500.5	633.2	684.9	694.9	704.0
47.5°	181.3	181.6	195.8	229.2	278.6	360.4	499.6	662.8	733.1	747.8	759.7
50°	158.5	158.2	171.9	204.2	249.4	328.9	491.9	696.2	785.0	801.7	816.4
52.5°	132.4	134.2	148.5	179.4	222.8	296.8	469.4	732.8	839.0	858.3	876.8
55°	106.8	107.6	123.0	151.8	195.8	267.0	430.0	766.5	891.7	913.5	934.1
57.5°	78.8	81.0	94.4	123.0	168.5	241.8	380.2	784.0	936.3	961.5	986.0
60°	55.6	57.4	69.2	93.2	138.5	215.4	337.2	774.2	972.2	1004.4	1033.8
62.5°	43.3	44.7	54.2	69.8	108.0	188.9	306.6	742.7	1012.1	1054.1	1094.2
65°	38.0	39.2	47.8	55.8	80.6	162.0	289.7	709.4	1065.5	1127.4	1183.2
67.5°	34.3	35.8	43.3	48.9	65.7	141.3	285.2	688.4	1091.7	1172.2	1247.6
69°	32.6	34.2	40.9	45.6	61.0	134.0	277.6	655.3	1056.4	1142.4	1224.7
70°	31.6	33.0	39.1	43.9	59.5	128.9	265.0	614.0	1007.9	1094.7	1180.7
72.5°	29.4	30.0	35.4	40.2	55.2	104.2	203.8	456.0	797.4	882.2	965.7
75°	26.0	26.7	31.8	36.3	43.0	64.7	129.0	282.0	537.0	600.0	677.5
77.5°	22.4	23.0	27.4	34.7	33.4	40.4	77.1	157.0	304.8	341.5	391.8
80°	18.0	18.7	22.6	34.4	27.6	31.4	55.4	109.8	149.6	160.6	172.6
82.5°	13.2	13.8	17.7	27.8	21.2	23.6	42.3	93.0	106.9	111.9	114.3
85°	6.7	6.8	11.3	17.0	13.4	12.2	23.8	63.7	72.5	73.8	75.7
87.5°	1.2	1.2	2.6	2.9	3.3	2.0	3.0	10.8	12.6	12.5	13.6
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	444.6	444.6	444.6	444.6	444.6	444.6	444.6	444.6	444.6	444.6	444.6
2.5°	446.1	446.0	446.2	446.2	446.3	445.9	445.7	445.6	445.6	445.9	445.6
5°	451.6	451.5	451.6	451.8	451.7	451.5	451.4	451.4	451.0	451.0	451.2
7.5°	460.8	460.7	460.4	460.9	461.1	461.2	461.4	461.2	461.1	461.0	461.2
10°	473.5	473.5	473.5	473.9	474.3	474.3	474.6	474.3	474.2	474.4	474.4
12.5°	487.7	487.4	488.0	488.3	488.7	489.5	489.1	489.6	489.2	489.8	489.8
15°	501.1	501.3	501.8	502.1	502.2	502.8	502.9	503.2	502.8	502.8	503.9
17.5°	509.4	509.3	509.7	509.9	510.2	510.5	511.2	511.5	511.2	511.2	511.7
20°	512.3	511.9	512.0	512.2	512.2	512.6	513.0	513.0	513.0	513.2	513.6
22.5°	510.9	510.2	509.6	509.6	509.7	509.6	509.9	510.1	510.4	510.6	511.2
25°	509.0	507.5	506.3	506.2	505.8	505.8	506.0	506.0	506.3	506.6	507.2
27.5°	509.2	507.2	505.3	504.6	503.9	503.5	503.3	503.0	503.3	503.6	504.2
30°	513.5	510.4	507.7	506.8	505.8	505.0	504.2	503.4	502.8	503.2	503.5
32.5°	521.1	518.2	515.4	514.0	512.7	511.1	509.7	508.8	507.7	507.3	507.2
35°	537.3	534.9	532.5	530.9	528.6	527.4	525.7	523.2	521.5	521.3	520.4
37.5°	564.6	563.5	561.8	560.1	559.3	556.2	554.2	552.9	550.8	552.2	550.0
40°	603.9	605.8	607.4	606.5	606.8	605.9	604.7	605.9	604.6	604.2	604.6
42.5°	654.3	660.9	665.6	667.1	670.8	672.2	675.0	679.2	678.4	683.2	684.0
45°	712.6	722.1	731.4	738.3	745.8	754.4	763.0	769.8	775.1	774.8	780.6
47.5°	772.0	786.2	798.5	808.9	822.5	835.0	848.8	862.8	873.0	876.8	878.0
50°	832.3	848.6	865.5	880.8	899.1	919.2	941.0	962.7	973.6	982.4	988.4
52.5°	895.4	914.0	932.0	953.7	976.3	1002.8	1030.0	1060.9	1077.4	1094.2	1103.0
55°	955.5	976.3	994.9	1023.8	1051.5	1083.2	1118.7	1157.8	1186.3	1205.9	1223.2
57.5°	1010.0	1032.2	1055.0	1087.6	1123.0	1160.0	1205.0	1252.5	1283.6	1317.8	1348.5
60°	1063.3	1091.2	1117.4	1160.0	1202.1	1248.1	1304.1	1364.3	1412.2	1458.8	1494.2
62.5°	1134.0	1169.8	1202.4	1256.0	1310.9	1367.8	1434.4	1505.6	1575.2	1638.2	1686.0
65°	1238.4	1291.0	1339.8	1407.6	1477.1	1551.8	1631.4	1722.4	1805.9	1889.4	1957.7
67.5°	1317.6	1384.2	1446.8	1528.9	1610.6	1697.4	1793.5	1900.8	2004.3	2098.4	2181.7
69°	1302.0	1372.7	1440.6	1524.3	1609.2	1697.8	1794.8	1909.0	2016.4	2118.6	2208.0
70°	1254.7	1328.3	1398.6	1481.7	1567.8	1656.6	1758.1	1870.2	1980.2	2089.1	2179.4
72.5°	1039.9	1113.7	1182.0	1267.1	1353.7	1447.0	1543.1	1652.4	1769.8	1886.2	1965.2
75°	745.6	810.8	877.0	949.0	1033.5	1110.3	1198.3	1302.5	1401.3	1491.6	1552.0
77.5°	440.6	479.7	527.0	560.8	609.8	652.2	696.9	754.8	785.2	843.4	858.4
80°	179.5	178.4	185.4	178.5	180.1	174.4	168.4	167.2	157.8	169.6	160.8
82.5°	114.0	106.1	97.6	85.8	75.5	64.6	54.7	46.3	44.8	45.0	44.6
85°	75.1	71.7	64.1	53.9	43.9	35.2	28.2	22.3	22.0	21.6	21.5
87.5°	13.6	12.6	10.4	8.9	7.5	5.5	3.9	2.9	2.8	2.8	3.3
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):

	84°	85°	86°	87°	88°	89°	90°
0°	444.6	444.6	444.6	444.6	444.6	444.6	444.6
2.5°	445.6	445.6	445.5	445.8	445.7	445.2	444.9
5°	451.5	451.0	451.4	451.7	451.1	451.2	451.0
7.5°	461.2	461.1	461.2	460.8	460.6	461.0	461.4
10°	474.8	474.6	474.5	474.9	474.6	474.4	474.5
12.5°	490.2	490.2	490.1	490.2	490.1	489.8	489.5
15°	503.8	504.0	504.0	503.8	503.6	503.5	503.6
17.5°	512.1	512.0	512.0	512.0	511.8	512.0	512.2
20°	514.3	513.8	513.9	514.2	513.9	514.2	514.3
22.5°	511.4	511.4	511.4	511.5	511.8	511.8	512.0
25°	507.7	507.7	507.6	507.9	508.0	508.0	508.2
27.5°	504.8	504.8	504.8	505.0	505.0	505.2	505.4
30°	503.8	503.9	503.8	503.9	504.0	504.0	504.1
32.5°	507.3	506.9	506.8	506.6	506.3	506.2	506.2
35°	519.4	518.3	518.4	517.7	518.0	517.3	516.8
37.5°	548.6	547.6	546.4	544.9	544.0	545.2	545.2
40°	603.3	603.9	601.2	600.4	598.8	599.9	601.4
42.5°	684.6	685.3	685.8	681.6	681.5	680.7	678.1
45°	780.9	779.2	779.9	778.0	777.2	774.4	777.9
47.5°	882.8	884.0	879.4	877.9	880.6	876.0	876.6
50°	991.8	992.0	988.7	987.9	990.4	981.7	985.8
52.5°	1109.3	1109.8	1112.4	1109.4	1110.6	1108.6	1112.6
55°	1234.3	1243.8	1244.6	1248.1	1248.3	1252.6	1248.3
57.5°	1365.6	1376.4	1386.4	1400.3	1403.3	1401.6	1404.3
60°	1523.7	1551.9	1567.1	1588.8	1592.2	1601.6	1593.5
62.5°	1730.8	1774.8	1808.0	1824.6	1834.8	1854.4	1847.9
65°	2020.5	2072.8	2123.2	2147.2	2173.8	2201.6	2206.7
67.5°	2257.8	2315.9	2368.2	2410.0	2442.3	2462.8	2464.5
69°	2287.4	2349.2	2404.4	2450.7	2482.2	2503.2	2508.8
70°	2260.6	2323.8	2382.3	2426.5	2461.7	2483.1	2490.6
72.5°	2048.4	2123.6	2170.4	2215.5	2265.1	2271.6	2292.1
75°	1621.4	1688.9	1734.9	1746.8	1772.7	1805.4	1793.7
77.5°	845.7	875.0	884.8	864.1	863.1	882.2	844.2
80°	161.0	161.3	158.6	157.6	159.6	157.6	155.0
82.5°	45.4	44.8	44.4	45.4	45.4	45.2	46.1
85°	21.0	20.4	19.4	19.4	19.8	19.1	19.5
87.5°	2.9	2.4	2.4	2.4	2.2	2.2	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)