

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: P180462

Luminaire Tested: **ICM-F01-LED-E1-SL2-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180462
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F01-LED-E1-SL2-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (7) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2142.8 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

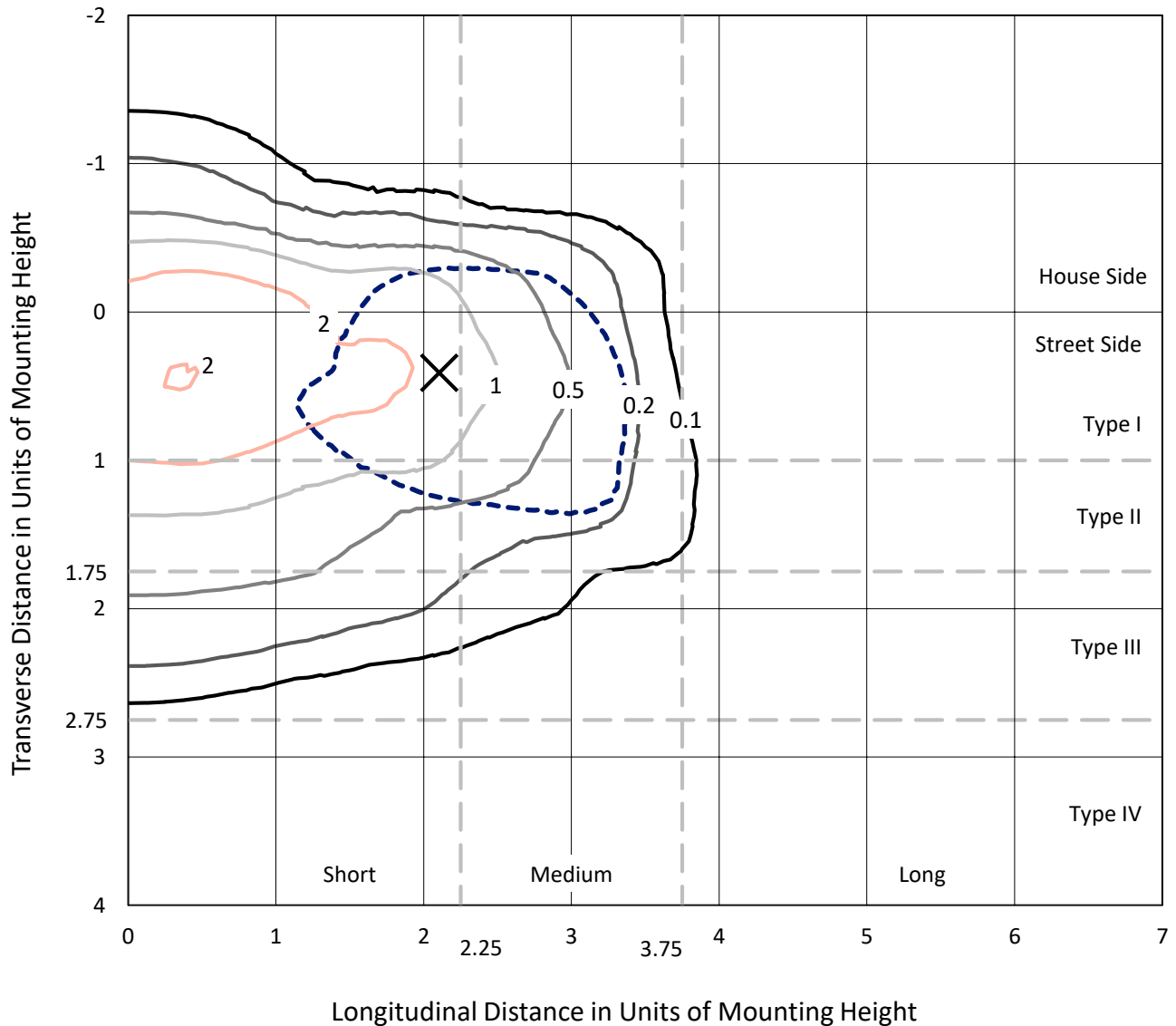
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

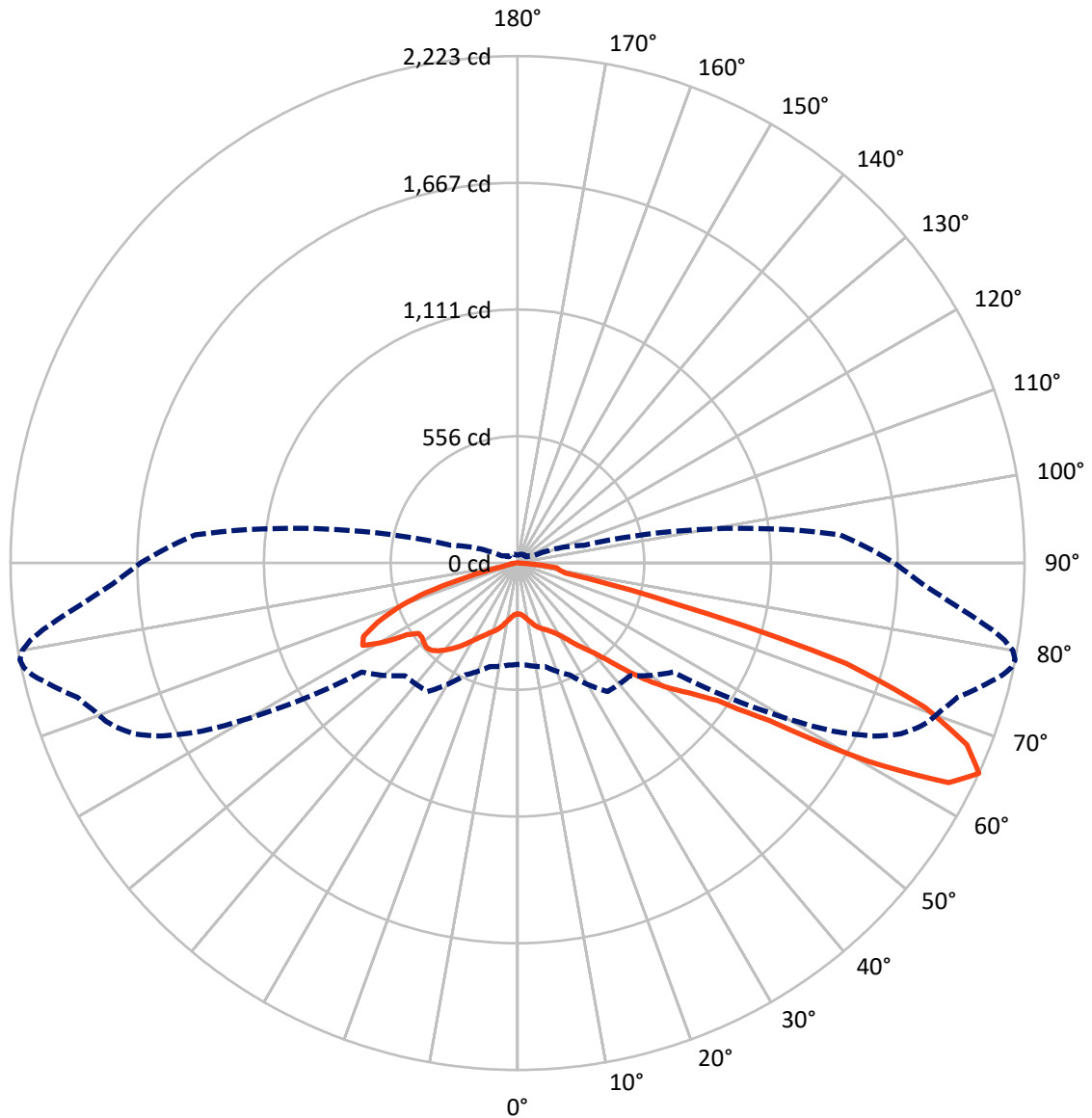
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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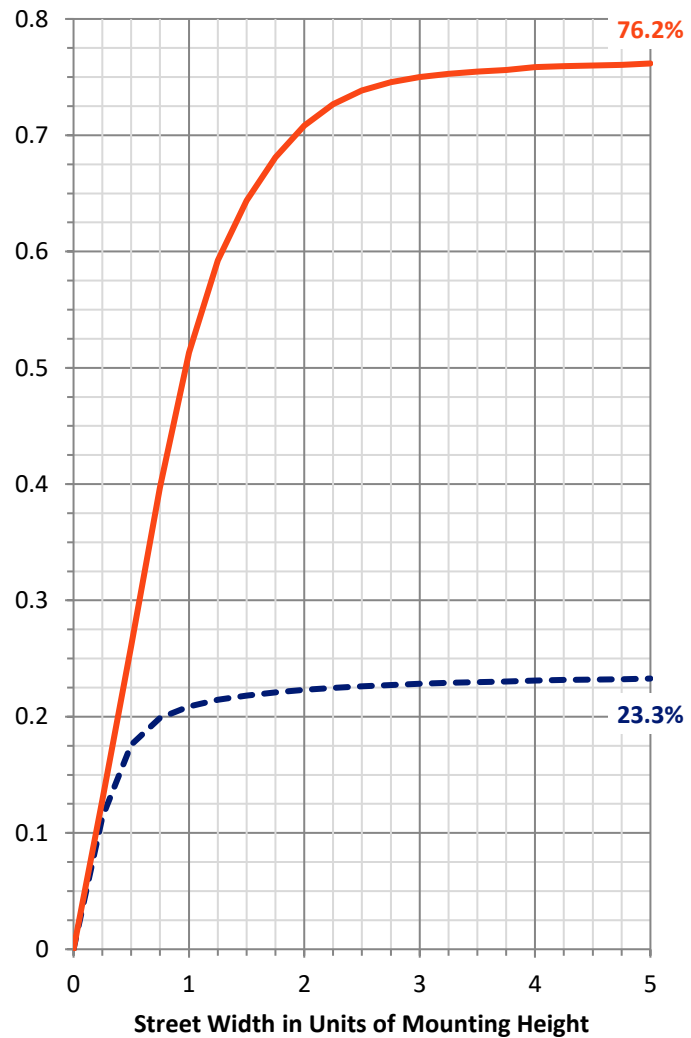
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	506.5	0.0	506.5
	% Fixture	23.6	0.0	23.6
Street Side	Lumens	1636.3	0.0	1636.3
	% Fixture	76.4	0.0	76.4
Total	Lumens	2142.8	0.0	2142.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.2	1.0
10°-20°	72.5	3.4
20°-30°	125.2	5.8
30°-40°	207.3	9.7
40°-50°	351.5	16.4
50°-60°	467.1	21.8
60°-70°	603.4	28.2
70°-80°	253.0	11.8
80°-90°	40.6	1.9
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°	2142.8	100.0
0°-180°	2142.8	100.0



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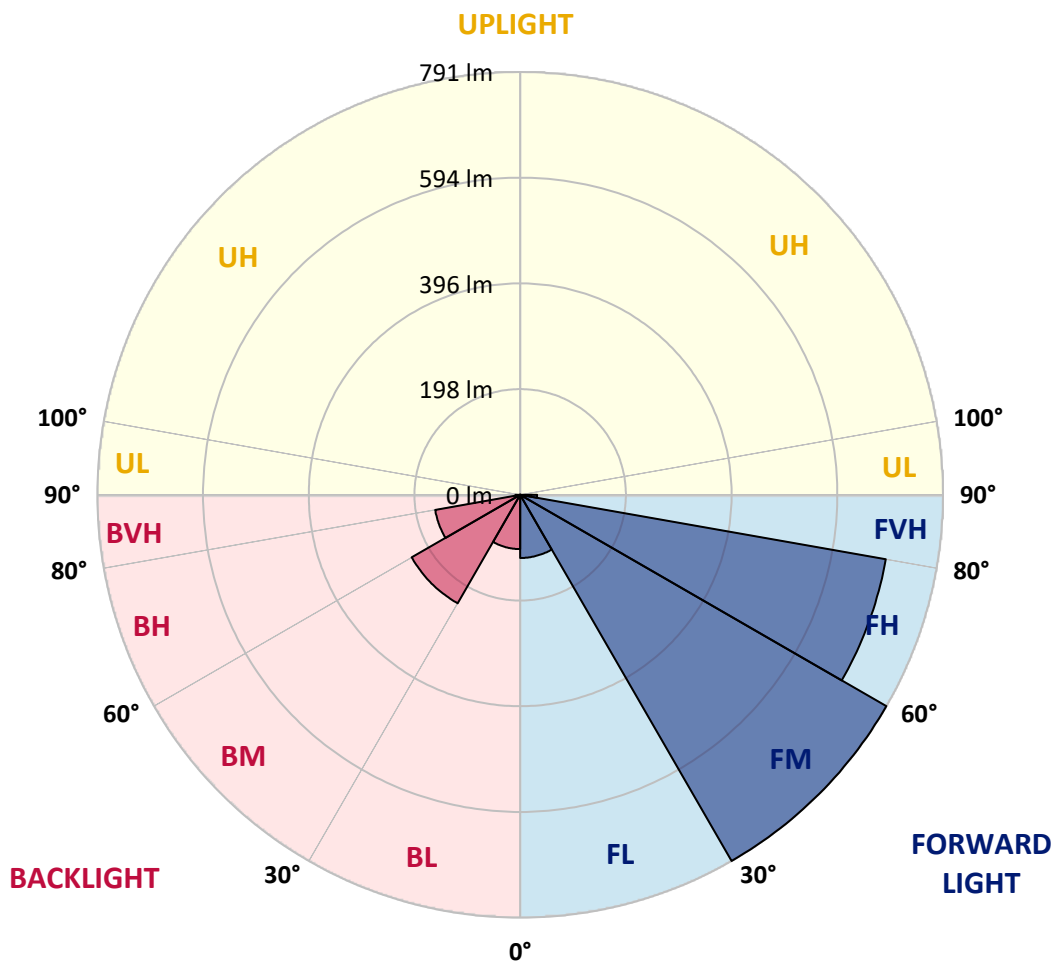
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	118.2	5.5			
FM (30°-60°)	791.4	36.9			
FH (60°-80°)	694.8	32.4			G1/1800
FVH (80°-90°)	31.8	1.5			G1/100
BL (0°-30°)	101.7	4.7	B0/110		
BM (30°-60°)	234.5	10.9	B1/1000		
BH (60°-80°)	161.6	7.5	B1/500		G1/500
BVH (80°-90°)	8.9	0.4			G0/10
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°	223.1	223.1	223.1	223.1	223.1	223.1	223.1	223.1	223.1	223.1	223.1
2.5°	222.3	223.1	222.6	223.1	223.5	223.7	224.2	224.0	224.0	224.2	223.7
5°	222.3	222.3	223.1	224.2	224.7	226.0	227.7	227.4	227.7	227.4	227.9
7.5°	227.0	226.8	227.4	228.9	229.4	231.4	234.2	234.7	235.2	235.2	235.9
10°	235.2	235.0	235.6	236.4	237.0	238.7	242.7	244.3	244.6	244.7	245.7
12.5°	245.5	245.2	244.3	244.3	244.1	247.2	252.5	255.5	256.0	256.9	257.7
15°	252.7	252.0	250.6	249.7	250.9	255.8	263.7	267.3	267.7	268.4	270.2
17.5°	259.7	259.1	256.0	253.7	255.4	263.3	274.0	277.8	278.7	279.4	281.5
20°	269.6	269.1	264.7	259.1	258.6	268.8	282.0	286.9	287.5	288.5	290.6
22.5°	284.6	282.4	277.3	266.8	261.6	272.1	287.5	294.3	295.3	296.2	299.1
25°	303.3	302.3	293.4	277.3	266.5	275.4	293.7	302.0	303.4	304.7	308.4
27.5°	322.6	321.2	311.6	290.6	275.2	282.0	303.3	312.8	314.7	316.6	320.1
30°	339.9	339.4	331.5	308.7	289.2	294.3	318.7	330.3	332.5	334.8	338.0
32.5°	380.7	380.8	372.7	349.3	323.1	316.8	340.8	358.4	359.4	362.1	368.0
35°	458.5	459.4	456.4	437.9	408.5	382.5	384.8	402.1	403.1	405.4	411.0
37.5°	510.6	512.5	521.9	527.7	512.7	500.8	471.1	464.3	465.0	463.6	462.4
40°	539.4	542.1	566.7	597.1	613.5	613.7	600.8	571.0	559.4	556.2	542.1
42.5°	555.7	560.4	595.3	647.2	694.1	726.4	734.3	701.1	692.7	677.8	650.9
45°	566.5	572.1	613.2	684.3	753.5	808.5	849.9	835.2	829.5	820.4	795.6
47.5°	564.7	569.0	611.8	696.9	784.7	862.7	936.1	951.4	944.6	942.2	925.4
50°	530.5	534.4	578.0	665.6	767.5	883.3	990.8	1033.9	1033.9	1038.3	1033.1
52.5°	494.0	497.3	536.8	615.6	712.4	863.2	1021.2	1092.6	1101.9	1109.6	1121.8
55°	480.2	484.2	514.1	581.5	665.4	805.7	1031.5	1136.5	1153.8	1166.9	1194.5
57.5°	486.8	490.7	512.0	563.0	637.8	747.0	1032.0	1195.6	1229.0	1256.0	1311.8
60°	515.1	518.8	536.6	580.1	630.5	713.1	1012.1	1289.9	1343.2	1393.7	1486.7
62.5°	502.0	506.6	532.6	608.4	684.6	687.4	940.4	1362.8	1448.6	1523.2	1671.2
65°	444.7	449.6	470.0	540.7	687.8	698.6	834.0	1364.2	1470.8	1571.5	1731.3
67.5°	337.6	339.4	355.6	412.4	550.1	711.0	724.6	1202.6	1304.1	1416.6	1581.4
70°	172.6	175.8	180.5	227.7	354.2	587.5	622.6	886.3	1015.6	1131.8	1329.9
72.5°	59.8	61.0	65.7	87.0	172.6	385.5	545.0	607.4	685.5	794.2	1023.5
75°	36.0	36.0	37.7	44.0	78.8	200.8	484.9	496.1	506.6	543.1	693.2
77.5°	28.6	29.0	29.0	30.1	43.7	103.1	368.2	461.3	462.7	466.2	491.4
80°	20.4	21.3	23.2	24.1	28.3	56.6	206.7	404.9	432.6	445.9	464.3
82.5°	15.2	16.1	19.6	20.8	22.0	31.5	92.8	279.4	329.7	356.3	421.3
85°	6.8	7.9	13.3	14.7	15.4	16.8	43.4	79.5	91.4	102.6	135.3
87.5°	1.2	1.2	2.1	3.1	4.5	4.2	9.6	13.6	13.8	16.1	18.0
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°	223.1	223.1	223.1	223.1	223.1	223.1	223.1	223.1	223.1	223.1	223.1
2.5°	223.7	223.7	223.7	223.5	223.7	223.7	223.7	223.7	224.0	224.0	224.0
5°	228.7	228.2	228.5	228.5	228.5	228.2	228.7	228.5	228.7	229.4	229.1
7.5°	235.9	236.4	236.6	236.8	236.8	236.8	237.0	237.6	237.6	238.2	238.0
10°	246.7	246.4	246.7	247.4	248.1	248.3	249.0	248.7	249.2	250.1	251.1
12.5°	258.1	258.6	259.3	260.0	261.1	261.4	262.0	262.3	263.7	263.7	264.7
15°	271.0	271.2	272.7	272.8	274.2	274.7	275.9	276.4	278.0	278.2	279.2
17.5°	282.7	283.2	283.8	284.6	286.1	286.9	287.8	288.7	290.1	290.6	292.3
20°	292.0	292.9	293.2	294.6	296.0	296.9	297.9	298.8	300.2	300.9	302.5
22.5°	300.5	301.4	302.0	303.3	304.2	305.6	306.0	307.7	309.1	310.2	311.6
25°	309.6	311.0	311.6	313.8	314.4	315.8	317.0	318.7	320.6	322.0	323.8
27.5°	322.4	324.5	325.5	327.8	329.4	330.1	332.0	334.3	336.0	337.6	339.4
30°	340.2	344.2	344.8	346.5	349.5	350.0	352.4	354.2	356.7	358.4	360.0
32.5°	367.7	372.7	373.1	375.0	377.6	378.5	380.4	382.5	386.5	387.2	389.8
35°	410.0	412.2	414.0	414.8	416.8	418.0	419.4	421.8	425.8	425.3	428.1
37.5°	460.8	461.5	461.8	459.4	459.9	457.8	460.4	460.8	462.2	463.4	466.2
40°	533.3	526.0	525.1	519.5	513.9	510.9	509.7	505.0	506.1	506.6	508.9
42.5°	639.2	625.2	613.5	605.5	591.7	584.9	575.8	568.6	563.0	565.1	566.0
45°	773.4	753.3	734.6	710.2	692.3	679.4	663.3	648.7	642.2	639.2	643.0
47.5°	907.4	889.6	867.6	842.6	814.1	792.8	766.0	742.3	726.0	719.8	723.2
50°	1023.1	1006.7	990.1	975.4	942.2	919.1	882.3	851.7	826.1	812.9	809.4
52.5°	1119.2	1110.5	1101.7	1089.3	1062.6	1039.4	1010.2	980.1	946.0	919.3	910.1
55°	1205.0	1210.1	1205.7	1206.0	1195.4	1180.7	1155.9	1133.5	1109.6	1079.4	1066.8
57.5°	1330.1	1360.5	1366.5	1381.8	1389.2	1397.2	1404.2	1390.9	1384.8	1362.3	1362.6
60°	1527.2	1571.5	1610.1	1645.2	1674.0	1702.1	1731.5	1744.6	1759.1	1765.9	1789.0
62.5°	1736.8	1779.2	1836.8	1883.7	1910.2	1946.6	1978.6	1999.5	2024.9	2052.0	2087.4
65°	1788.8	1839.7	1876.0	1907.4	1933.5	1952.9	1970.4	1995.3	2016.5	2059.5	2101.1
67.5°	1655.7	1696.5	1729.6	1760.5	1780.8	1797.2	1812.8	1829.2	1865.7	1904.8	1946.6
70°	1421.2	1470.3	1525.3	1565.3	1575.4	1589.3	1604.3	1625.6	1643.8	1684.8	1716.6
72.5°	1141.9	1212.5	1259.0	1314.4	1326.3	1347.6	1356.0	1372.7	1375.9	1398.1	1406.5
75°	795.8	876.7	923.5	964.2	972.1	960.5	965.1	906.4	891.4	879.4	869.5
77.5°	525.3	547.1	554.6	548.0	516.7	492.2	466.0	440.3	443.1	422.2	385.8
80°	467.2	472.0	465.2	458.7	440.7	415.0	391.4	367.3	355.4	342.8	324.0
82.5°	454.5	473.4	475.5	467.6	453.3	425.3	396.7	361.0	330.6	302.5	274.0
85°	152.0	184.9	199.6	213.5	217.7	222.6	205.8	182.8	155.3	136.7	107.1
87.5°	19.4	24.1	27.8	23.8	27.8	32.7	23.6	26.4	26.7	16.6	12.4
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°	223.1	223.1	223.1	223.1	223.1	223.1	223.1	223.1	223.1	223.1	223.1
2.5°	224.2	224.0	224.0	224.0	223.7	224.0	224.0	224.0	224.0	224.0	223.7
5°	229.4	229.4	230.0	230.3	229.9	229.6	229.9	230.0	230.0	229.9	230.0
7.5°	239.0	239.2	239.6	240.4	239.9	240.1	240.4	240.1	240.8	241.0	240.8
10°	251.1	251.5	252.7	252.9	252.7	253.7	253.9	253.4	253.9	253.9	254.9
12.5°	265.1	265.6	267.0	267.4	267.9	268.2	268.8	269.1	269.8	270.2	271.0
15°	280.3	280.7	281.8	283.4	283.8	284.3	284.7	286.1	286.4	287.4	288.0
17.5°	293.2	293.9	295.3	296.5	297.1	298.3	298.8	300.5	300.9	302.3	303.4
20°	303.4	304.7	305.8	307.2	308.4	309.8	310.2	311.9	312.8	313.5	314.9
22.5°	312.8	314.2	315.8	317.5	318.4	320.3	321.0	321.7	323.8	324.7	326.1
25°	325.0	326.4	328.3	330.3	331.3	333.6	334.3	335.5	337.9	338.8	340.8
27.5°	341.6	343.4	344.8	347.0	348.1	349.8	351.4	352.8	354.9	356.3	358.6
30°	362.4	363.8	366.1	367.7	369.7	372.0	373.9	375.3	376.4	378.5	381.1
32.5°	393.0	393.2	394.0	398.0	399.8	401.7	404.3	405.4	407.3	409.4	412.2
35°	431.2	433.2	434.9	436.7	438.8	440.9	441.9	445.4	447.0	449.9	452.7
37.5°	469.0	469.2	472.9	474.1	476.0	478.1	481.4	484.9	489.1	491.9	496.4
40°	509.7	511.5	516.2	518.6	520.9	526.0	528.7	534.2	541.2	545.2	552.7
42.5°	568.6	571.4	579.8	583.5	589.2	597.6	603.0	610.7	613.5	623.1	626.6
45°	645.8	654.4	666.5	674.5	684.6	693.7	698.3	701.9	706.1	713.6	712.7
47.5°	729.2	740.5	754.0	770.3	776.9	787.6	793.8	800.6	796.7	794.9	793.0
50°	814.8	827.9	845.9	860.6	870.7	877.2	882.3	881.4	873.5	869.2	857.6
52.5°	910.0	917.7	934.7	947.4	953.4	954.8	953.7	946.6	939.2	925.9	912.0
55°	1055.8	1052.3	1059.1	1064.9	1063.1	1069.6	1052.8	1046.2	1027.8	1010.5	992.0
57.5°	1352.3	1356.9	1319.1	1302.1	1299.0	1305.0	1275.4	1271.6	1227.0	1221.4	1190.2
60°	1785.8	1808.7	1779.0	1762.3	1717.5	1702.7	1669.6	1655.7	1612.9	1578.3	1534.6
62.5°	2111.6	2132.5	2144.9	2121.2	2095.1	2056.5	2006.2	1950.6	1905.2	1852.1	1805.9
65°	2141.1	2183.2	2211.7	2222.7	2204.3	2162.0	2100.0	2029.9	1960.4	1893.8	1835.3
67.5°	2003.5	2041.0	2085.2	2124.8	2127.1	2099.5	2046.7	1975.4	1895.2	1812.8	1744.4
70°	1766.8	1814.1	1852.6	1894.2	1923.3	1907.4	1880.9	1815.5	1732.2	1668.1	1589.3
72.5°	1436.9	1456.8	1466.1	1507.1	1507.5	1478.5	1459.8	1423.6	1356.5	1311.2	1251.1
75°	839.1	795.4	748.8	708.4	675.4	661.7	600.4	590.1	548.9	523.4	486.0
77.5°	346.0	307.0	256.7	214.9	173.5	154.8	127.6	115.7	100.3	93.5	89.1
80°	296.7	259.7	221.9	185.7	153.4	121.1	94.2	73.2	57.5	48.8	45.4
82.5°	242.2	220.0	193.6	174.0	148.7	124.7	105.2	81.6	61.0	44.9	34.3
85°	87.4	71.8	57.8	53.1	42.3	34.8	29.2	25.0	20.6	16.4	14.5
87.5°	9.9	9.4	5.4	5.1	5.9	4.2	4.9	4.5	3.7	3.3	3.5
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°	223.1	223.1	223.1	223.1	223.1	223.1	223.1	223.1	223.1	223.1	223.1
2.5°	223.7	223.7	224.0	224.0	224.2	224.5	224.9	224.7	224.7	224.9	224.9
5°	230.0	230.8	230.5	230.5	230.5	230.8	231.0	230.0	229.1	228.2	227.7
7.5°	241.0	241.5	242.0	241.5	242.0	241.8	241.3	238.7	235.6	231.9	229.4
10°	255.4	255.4	255.8	255.5	256.5	255.8	254.3	248.6	242.0	234.0	228.2
12.5°	270.7	272.4	271.6	271.9	273.8	271.9	268.7	260.0	248.3	235.4	225.1
15°	288.9	289.7	290.1	289.4	290.6	288.9	283.2	269.3	252.3	234.2	219.1
17.5°	303.9	304.2	304.4	304.8	306.5	304.7	294.6	275.9	253.2	228.9	208.7
20°	315.6	316.8	317.8	317.8	320.1	317.3	303.9	279.2	250.1	220.0	195.7
22.5°	327.8	328.7	329.9	330.1	333.1	330.3	311.6	278.4	242.2	207.4	180.5
25°	342.8	343.7	344.7	345.8	350.0	346.0	319.4	275.6	231.3	192.4	164.1
27.5°	360.0	362.1	362.9	364.7	369.7	363.5	326.0	271.4	219.1	175.1	146.8
30°	383.2	385.8	386.7	389.3	396.1	382.7	329.7	264.2	203.6	157.6	128.4
32.5°	414.3	417.8	420.6	423.4	431.2	401.9	330.1	253.7	185.7	138.0	110.6
35°	455.0	460.4	462.4	464.3	471.5	422.7	328.0	238.0	163.6	117.9	96.6
37.5°	500.6	506.0	507.4	508.3	509.7	440.5	322.9	214.1	138.9	100.3	85.3
40°	556.7	561.3	563.3	561.8	554.3	454.2	311.4	186.3	114.8	88.4	78.3
42.5°	625.2	632.2	632.9	626.6	601.8	462.0	288.5	153.6	95.8	79.7	72.9
45°	710.1	709.6	705.6	701.1	653.5	459.0	256.5	125.1	83.9	72.9	68.0
47.5°	786.2	778.3	772.2	759.2	699.1	441.2	215.1	103.5	76.7	67.8	63.8
50°	848.7	834.1	821.3	807.1	732.9	409.6	174.0	87.9	69.9	63.3	59.8
52.5°	898.1	880.5	865.5	851.4	765.7	374.5	142.6	76.5	63.3	58.9	55.4
55°	975.2	957.7	933.8	918.3	815.7	342.2	122.2	67.3	57.0	54.2	50.7
57.5°	1170.4	1155.0	1126.4	1086.4	944.3	330.1	110.8	60.3	51.9	50.2	47.4
60°	1511.3	1486.2	1449.1	1408.4	1205.7	338.3	101.7	55.4	48.4	47.0	44.9
62.5°	1768.5	1724.5	1682.4	1644.8	1414.7	338.0	89.8	51.6	45.9	45.1	43.0
65°	1779.0	1734.3	1692.0	1652.5	1419.4	300.9	75.7	48.4	45.4	45.1	41.6
67.5°	1684.5	1636.1	1595.2	1545.4	1314.0	235.2	60.7	46.3	47.3	46.8	41.1
70°	1530.2	1467.1	1433.4	1384.3	1156.4	164.6	50.0	47.0	51.2	49.8	41.9
72.5°	1201.0	1153.3	1102.1	1068.0	905.3	104.0	42.0	47.4	52.8	50.5	43.7
75°	447.0	459.9	438.8	431.4	459.9	61.0	37.4	44.2	47.3	43.7	39.7
77.5°	90.2	86.2	81.9	80.9	104.5	37.7	34.3	38.3	36.3	32.0	32.3
80°	43.3	42.0	40.7	40.5	38.8	31.3	31.8	32.7	27.3	24.7	26.4
82.5°	28.7	27.2	26.7	25.7	26.1	28.1	30.1	28.1	21.0	19.6	23.8
85°	13.3	12.8	12.7	12.7	14.0	25.2	25.0	20.6	14.5	14.0	23.8
87.5°	3.3	3.3	3.5	3.3	3.7	7.4	6.5	6.3	5.4	6.0	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°	223.1	223.1	223.1
2.5°	224.7	224.9	224.7
5°	226.8	226.8	226.8
7.5°	226.8	226.0	225.9
10°	223.5	221.4	221.4
12.5°	217.9	214.4	214.0
15°	207.4	202.7	202.0
17.5°	194.0	187.7	186.6
20°	179.1	171.2	169.8
22.5°	162.7	153.6	152.9
25°	146.6	137.2	135.3
27.5°	128.6	119.4	118.5
30°	110.6	102.6	102.1
32.5°	95.3	90.5	89.6
35°	84.7	81.9	80.7
37.5°	77.6	75.5	75.3
40°	72.3	70.4	70.1
42.5°	67.8	66.1	66.0
45°	63.3	62.0	61.5
47.5°	58.9	57.5	57.3
50°	55.0	53.1	52.8
52.5°	51.2	49.3	48.8
55°	47.7	45.9	45.9
57.5°	44.7	42.8	42.5
60°	41.9	40.0	39.7
62.5°	39.7	37.4	37.2
65°	38.1	35.8	35.3
67.5°	37.2	34.3	33.7
70°	38.8	33.7	32.5
72.5°	39.1	32.9	31.3
75°	37.7	31.1	30.0
77.5°	32.9	27.8	26.7
80°	28.6	21.5	19.9
82.5°	27.2	17.5	15.2
85°	21.0	11.4	10.8
87.5°	11.9	6.3	5.1
90°	0.0	0.0	0.0

(END OF REPORT)