

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: P181284

Luminaire Tested: **ICS-F01-LED-E1-T2-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181284
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-F01-LED-E1-T2-8030
Description: ICON SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1921.3 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

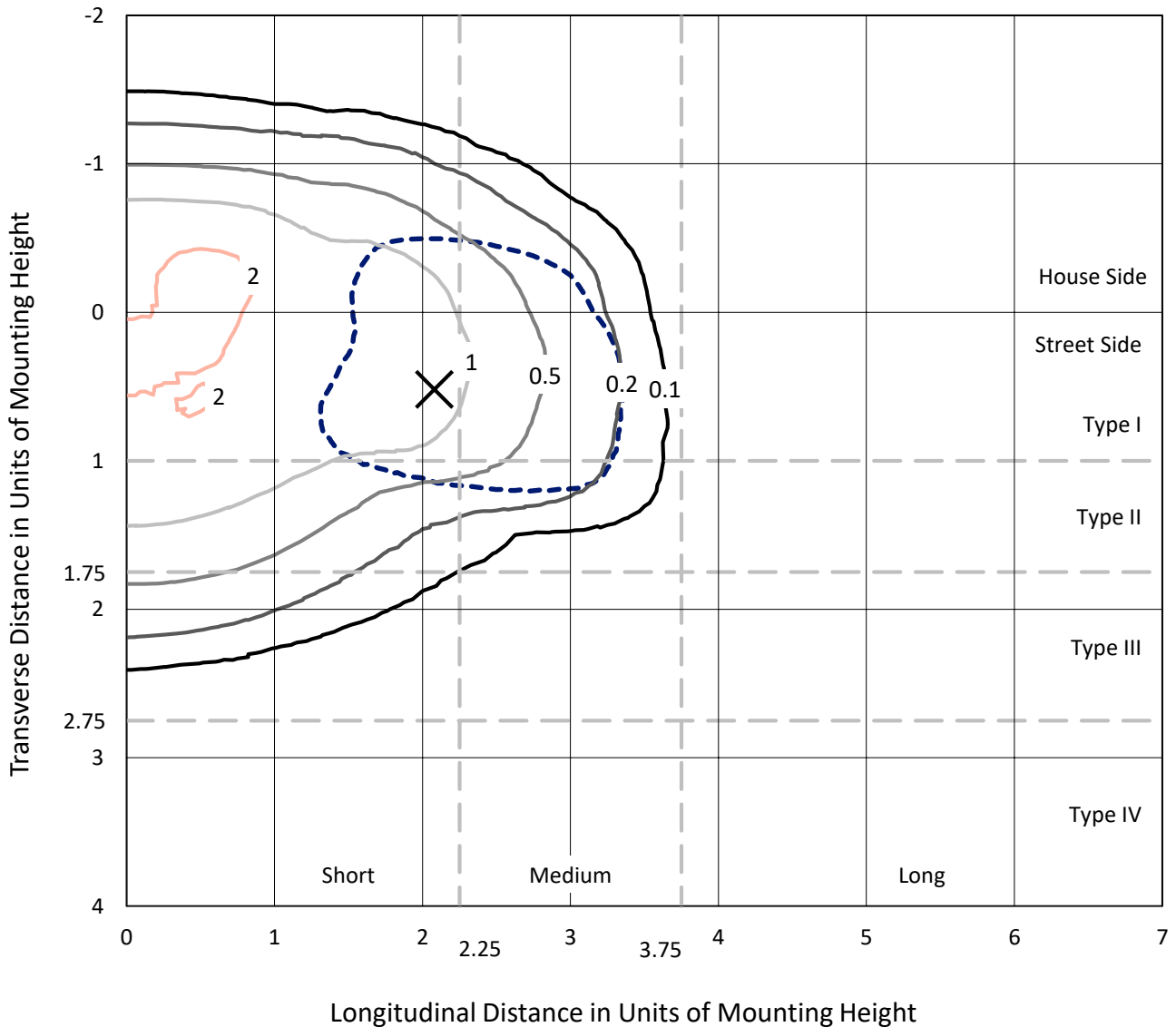
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

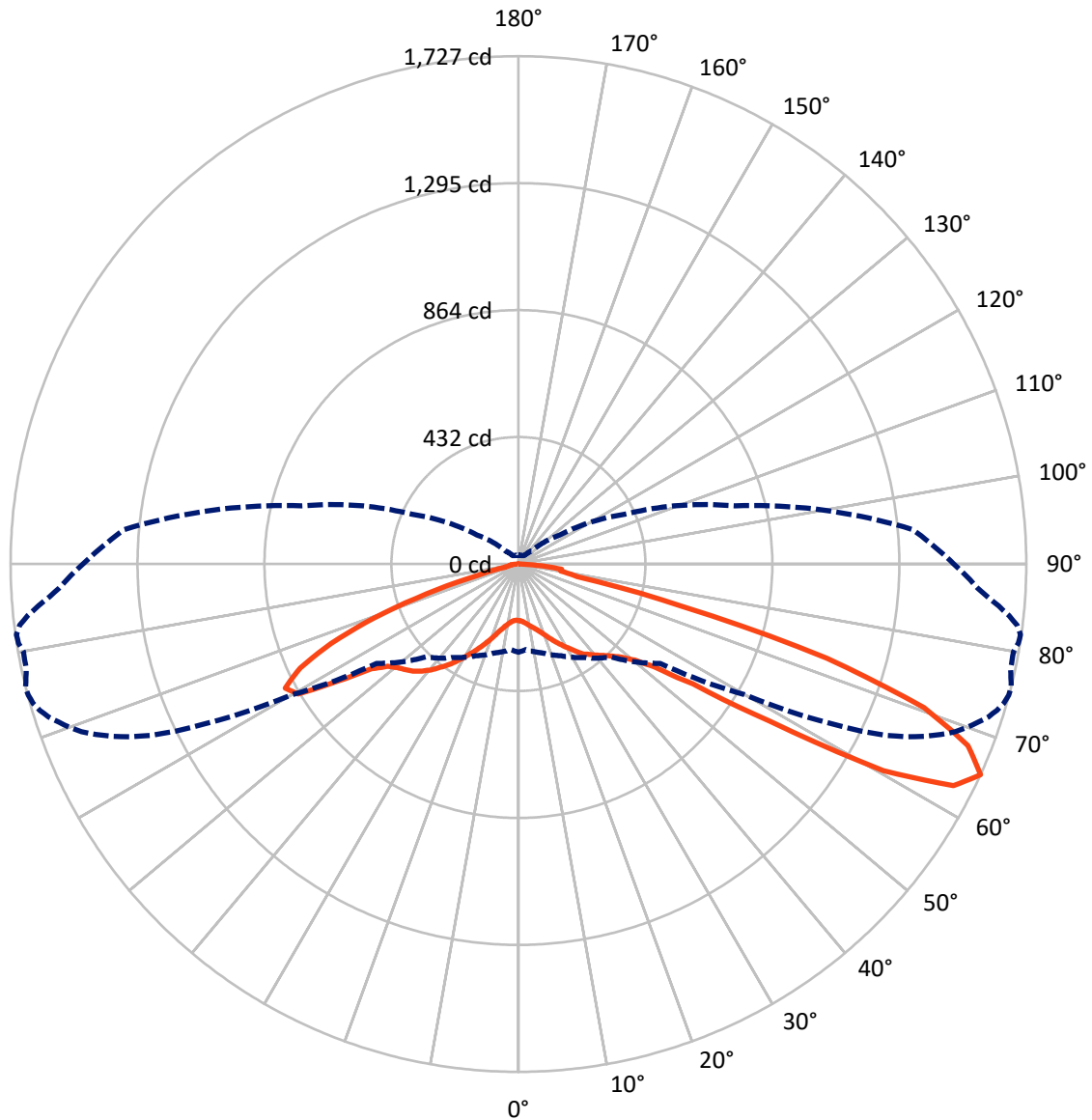
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.3 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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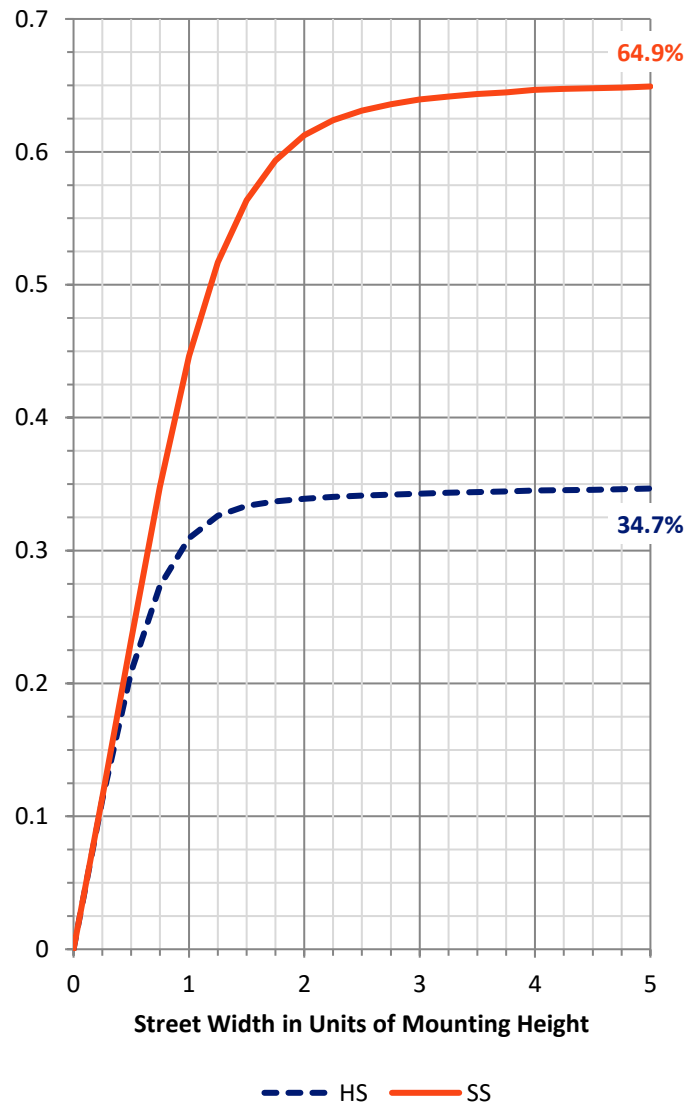
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	672.8	0.0	672.8
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	1248.5	0.0	1248.5
	% Fixture	65.0	0.0	65.0
Total	Lumens	1921.3	0.0	1921.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.2	1.0
10°-20°	66.1	3.4
20°-30°	129.8	6.8
30°-40°	215.7	11.2
40°-50°	316.9	16.5
50°-60°	438.8	22.8
60°-70°	523.7	27.3
70°-80°	185.2	9.6
80°-90°	25.9	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°	1921.3	100.0
0°-180°	1921.3	100.0



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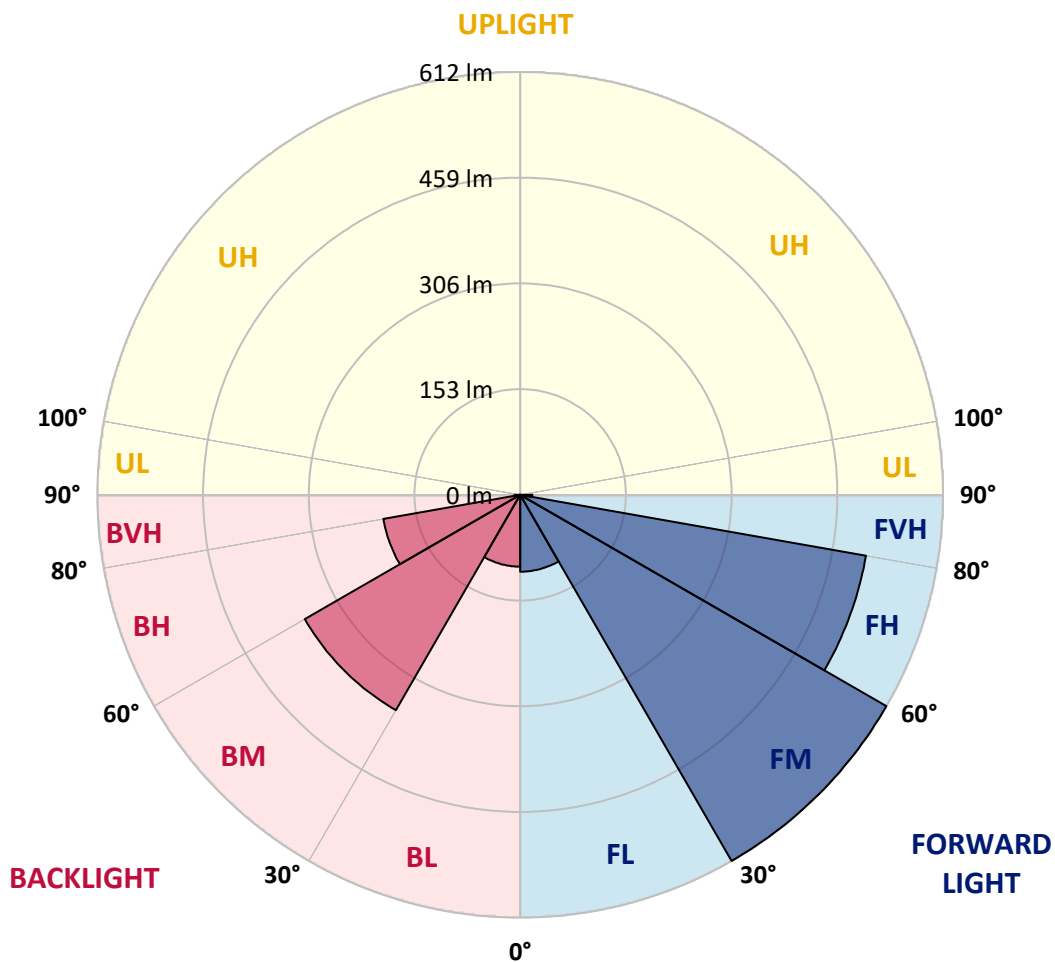
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	111.2	5.8			
FM	(30°-60°)	611.7	31.8			
FH	(60°-80°)	508.0	26.4			G0/660
FVH	(80°-90°)	17.7	0.9			G1/100
BL	(0°-30°)	103.9	5.4	B0/110		
BM	(30°-60°)	359.7	18.7	B1/1000		
BH	(60°-80°)	201.0	10.5	B1/500		G1/500
BVH	(80°-90°)	8.2	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°	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1
2.5°	200.5	200.7	200.3	200.0	199.4	198.4	197.5	196.7	196.7	196.7	196.1
5°	209.2	209.7	208.8	208.2	206.3	205.3	203.8	202.8	202.3	202.1	201.5
7.5°	220.3	219.7	218.4	218.0	216.6	214.3	211.5	209.5	209.5	209.2	209.5
10°	231.4	229.7	229.1	228.5	226.2	223.2	220.1	217.8	217.6	217.4	216.8
12.5°	242.5	241.9	241.2	238.9	236.6	232.0	228.5	226.2	226.0	226.2	225.3
15°	257.1	255.6	255.0	251.0	246.0	241.0	236.6	234.5	233.9	234.1	233.5
17.5°	268.4	268.4	266.9	262.5	256.1	249.2	244.6	243.3	243.1	243.1	243.3
20°	277.4	277.2	275.7	272.2	264.4	257.5	255.2	254.8	254.6	254.6	255.2
22.5°	282.4	282.0	281.4	277.4	271.3	266.7	266.9	268.2	268.6	269.0	269.9
25°	284.9	284.3	284.1	281.4	277.0	276.3	280.1	283.4	284.3	285.1	286.2
27.5°	289.1	288.0	288.5	287.4	286.4	288.3	296.0	299.5	300.2	301.2	301.8
30°	300.6	300.2	301.8	302.3	303.1	305.8	312.9	316.3	317.7	317.7	320.7
32.5°	322.5	322.7	323.2	327.6	329.0	330.9	334.7	337.4	337.6	337.8	340.5
35°	352.0	353.3	356.8	360.6	364.1	363.9	361.6	363.1	362.0	363.3	363.5
37.5°	389.2	387.5	392.8	401.3	406.8	405.3	395.1	388.4	390.3	389.4	388.8
40°	417.9	419.7	429.8	441.1	445.2	449.8	436.5	425.0	423.3	420.2	418.3
42.5°	457.4	457.6	465.7	474.1	486.2	496.2	487.7	471.2	466.1	462.4	454.2
45°	493.9	493.3	500.0	510.2	524.7	539.1	542.2	524.3	522.4	515.7	505.0
47.5°	518.4	517.6	522.2	535.5	559.0	582.6	595.5	590.1	586.5	583.8	567.1
50°	534.9	533.2	538.5	552.7	578.8	615.2	649.0	653.6	652.2	652.2	641.5
52.5°	547.2	547.2	551.0	562.5	589.1	634.4	695.0	718.2	720.1	722.2	721.6
55°	540.3	541.4	550.8	567.5	595.5	647.8	733.1	783.9	794.3	803.1	813.1
57.5°	516.7	520.3	532.8	560.2	597.2	657.8	775.3	875.8	905.3	930.8	970.5
60°	482.2	486.8	505.0	539.9	584.9	641.5	790.1	953.6	1000.4	1056.0	1159.7
62.5°	423.1	427.7	445.4	480.4	518.8	579.0	728.7	965.1	1039.9	1118.7	1275.5
65°	299.8	292.4	312.9	344.3	388.4	446.7	588.8	888.0	995.6	1102.4	1296.0
67.5°	167.0	166.4	178.9	202.3	244.6	307.3	405.7	681.0	780.1	901.1	1138.8
70°	115.2	116.4	124.4	149.7	184.6	238.7	289.1	427.7	499.0	581.1	814.8
72.5°	80.9	83.6	88.0	103.1	138.8	201.1	295.4	255.6	291.2	347.2	490.0
75°	47.5	49.3	52.5	59.8	79.0	134.4	305.8	224.7	224.7	237.9	296.4
77.5°	29.3	29.3	31.1	34.1	42.0	65.8	217.8	252.5	245.4	237.9	238.5
80°	15.1	16.1	18.8	20.3	23.4	30.1	97.8	235.6	258.4	273.6	263.0
82.5°	6.9	7.7	11.5	12.3	13.6	15.9	33.7	134.0	179.6	236.4	295.4
85°	3.6	3.6	6.1	7.5	8.2	7.3	12.3	54.1	81.9	125.0	195.7
87.5°	0.6	0.6	1.0	1.3	1.9	1.7	2.1	3.1	5.2	5.6	5.9
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°	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1
2.5°	195.9	196.1	195.9	195.7	195.2	195.2	195.2	195.0	195.0	195.0	194.8
5°	201.5	200.7	200.9	200.5	200.3	200.0	200.3	199.8	199.4	199.6	199.4
7.5°	208.6	208.2	207.4	207.4	207.2	206.7	206.7	206.1	205.9	205.5	205.3
10°	216.6	215.5	215.9	215.5	215.7	214.9	214.5	214.0	213.6	213.6	213.8
12.5°	224.7	224.5	223.9	223.5	223.5	222.8	223.0	222.8	222.2	222.0	221.4
15°	233.1	233.1	232.4	232.7	232.4	232.0	231.6	231.6	231.2	230.8	231.0
17.5°	242.9	242.9	242.9	242.9	243.1	242.5	242.7	242.3	241.9	242.7	242.7
20°	255.6	256.5	256.5	256.3	257.3	256.7	256.5	257.5	256.5	257.9	257.7
22.5°	270.3	271.1	271.1	272.0	272.2	272.8	273.2	272.8	273.6	274.5	274.5
25°	286.6	287.4	288.0	289.3	289.9	289.5	289.7	290.8	291.2	292.0	292.9
27.5°	303.7	303.9	304.8	306.2	307.3	307.7	307.9	309.6	309.8	310.2	311.0
30°	320.4	322.5	322.1	324.0	324.6	325.3	326.5	327.1	328.6	329.4	329.4
32.5°	340.1	339.7	341.3	342.8	343.9	344.9	345.9	346.8	347.6	348.0	350.1
35°	364.6	365.4	365.4	365.6	368.1	368.3	369.2	371.0	371.7	372.9	373.7
37.5°	388.8	387.3	387.1	387.1	386.3	386.9	387.1	387.3	388.2	388.4	389.2
40°	416.0	414.1	412.4	411.4	409.7	407.4	407.0	405.9	406.6	406.4	406.6
42.5°	453.2	448.0	444.0	441.1	437.7	435.2	433.3	430.6	428.7	426.4	426.0
45°	500.6	490.8	484.1	479.3	474.5	467.6	463.6	459.5	455.7	451.9	448.8
47.5°	562.9	552.5	541.8	533.0	525.5	514.4	503.1	496.9	489.6	483.1	478.5
50°	636.3	623.8	618.7	606.4	597.0	580.3	566.3	556.0	541.4	531.6	523.0
52.5°	711.3	708.2	705.5	695.0	684.0	674.3	662.0	644.0	629.2	617.9	600.3
55°	813.6	815.0	814.0	808.3	804.4	795.2	790.1	774.5	767.8	751.5	733.1
57.5°	985.6	997.3	1012.1	1018.0	1025.9	1018.4	1027.2	1037.8	1011.3	1020.5	1004.0
60°	1205.3	1259.0	1291.0	1330.3	1356.0	1391.9	1398.4	1407.8	1405.1	1410.3	1421.0
62.5°	1339.5	1403.2	1464.5	1509.0	1556.7	1583.0	1614.8	1636.9	1659.9	1675.4	1671.0
65°	1379.0	1444.6	1500.2	1548.9	1591.6	1623.8	1653.2	1681.0	1702.1	1717.0	1725.8
67.5°	1233.9	1319.6	1378.1	1435.2	1490.2	1524.1	1548.7	1575.7	1606.6	1632.3	1637.3
70°	928.5	1057.1	1140.1	1208.4	1273.0	1318.6	1353.1	1378.1	1402.2	1420.6	1440.6
72.5°	580.7	693.2	788.1	876.7	945.2	1008.0	1037.0	1092.6	1085.3	1099.3	1114.3
75°	348.0	402.8	455.1	517.6	553.5	605.8	615.2	624.4	619.6	603.9	615.6
77.5°	241.9	250.8	250.4	246.9	243.1	233.9	222.0	215.5	211.1	204.9	207.4
80°	243.3	223.9	194.2	163.3	134.8	116.0	108.5	108.5	116.2	127.3	138.4
82.5°	290.8	270.1	240.8	201.5	159.7	130.0	110.2	102.2	103.7	115.0	129.2
85°	196.1	200.7	176.0	161.0	127.5	99.3	83.2	67.5	59.8	61.7	69.8
87.5°	7.1	8.6	3.1	4.2	2.9	2.5	2.5	2.7	1.9	2.3	2.1
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°	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1
2.5°	194.6	194.4	194.4	194.0	194.0	193.8	193.8	193.6	193.4	193.4	193.1
5°	199.2	199.0	198.6	198.4	198.0	198.0	197.7	197.3	197.3	196.9	196.7
7.5°	205.7	205.3	204.9	204.6	204.4	203.8	203.8	203.4	203.4	203.0	202.8
10°	213.4	213.0	212.6	212.8	212.2	212.0	211.5	211.5	210.9	210.7	210.7
12.5°	221.8	221.6	221.6	220.9	220.7	220.5	219.7	219.7	219.7	219.3	219.5
15°	230.8	231.0	230.4	231.0	230.8	230.1	230.1	230.1	229.3	230.4	229.5
17.5°	242.9	243.5	243.1	243.3	242.9	242.9	243.1	242.9	243.3	243.3	244.6
20°	257.9	258.2	259.2	258.8	258.8	258.6	259.0	259.2	260.0	259.6	260.5
22.5°	274.5	275.5	275.7	276.5	276.5	276.3	276.8	277.6	278.0	278.6	278.4
25°	293.3	293.9	294.7	293.7	295.4	295.4	295.8	296.8	297.0	297.0	298.5
27.5°	310.8	312.5	312.7	313.8	313.1	313.5	315.0	315.6	316.5	316.5	316.9
30°	330.7	331.3	331.7	333.0	332.8	333.0	333.2	334.2	334.2	335.3	336.3
32.5°	351.2	351.6	352.0	353.3	353.7	354.5	354.1	354.9	356.0	356.2	356.8
35°	375.6	376.0	376.5	378.3	378.6	380.0	380.4	380.0	381.7	380.6	381.7
37.5°	389.8	391.7	392.1	393.4	393.0	394.0	394.7	395.5	395.9	396.7	398.4
40°	407.2	407.8	409.1	409.7	410.5	410.7	411.6	412.2	412.8	414.7	416.6
42.5°	425.0	425.8	426.4	427.3	428.3	429.1	429.8	431.7	432.1	433.3	436.9
45°	446.5	446.1	446.3	446.5	446.9	448.0	449.8	451.7	453.0	455.9	458.8
47.5°	473.2	470.5	469.5	467.8	468.2	470.5	470.9	474.1	476.6	479.3	482.9
50°	513.8	506.5	502.1	497.7	497.3	498.5	500.2	503.6	506.5	510.0	515.1
52.5°	581.9	567.9	559.2	547.0	543.7	543.1	541.8	543.7	544.5	549.3	558.7
55°	719.9	694.0	677.3	658.5	640.9	635.7	625.6	627.7	625.6	628.6	642.6
57.5°	1008.0	987.3	971.0	946.9	916.8	884.8	876.9	844.1	850.6	869.4	857.2
60°	1426.2	1418.7	1407.0	1395.5	1354.3	1331.1	1293.3	1289.1	1262.6	1262.8	1245.4
62.5°	1660.3	1670.0	1662.8	1659.5	1657.2	1649.9	1631.1	1608.5	1574.6	1550.2	1514.2
65°	1727.2	1719.1	1711.3	1710.3	1709.7	1721.6	1724.3	1708.4	1677.7	1639.6	1598.3
67.5°	1649.3	1644.7	1645.1	1636.3	1641.7	1662.4	1676.9	1672.5	1644.2	1598.3	1545.6
70°	1463.6	1454.7	1463.9	1475.3	1483.5	1495.4	1509.8	1513.4	1487.7	1440.4	1386.7
72.5°	1096.0	1097.4	1106.2	1109.3	1142.2	1138.8	1151.8	1109.5	1090.9	1046.0	1018.4
75°	576.7	567.3	591.8	539.9	518.6	533.4	491.9	451.9	460.3	467.2	417.4
77.5°	203.8	190.6	168.3	159.3	132.5	112.3	91.8	82.8	78.0	75.5	72.3
80°	146.3	150.5	145.9	135.0	114.8	92.0	72.5	57.3	49.1	44.7	41.8
82.5°	148.0	164.5	171.8	168.7	150.3	113.7	75.0	47.9	35.5	29.7	27.6
85°	79.4	87.0	83.6	70.4	63.3	37.8	25.9	17.3	14.6	13.4	12.3
87.5°	3.1	2.5	2.1	2.1	2.3	2.5	2.1	2.3	2.1	2.1	2.1
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°	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1
2.5°	192.7	192.7	192.7	192.5	192.1	191.1	190.0	189.2	188.5	187.9	187.1
5°	196.5	196.1	196.1	196.1	194.4	192.7	191.3	189.8	188.5	187.5	186.7
7.5°	202.8	202.6	201.7	201.5	200.3	197.5	195.9	193.4	191.9	190.4	190.0
10°	210.3	210.1	209.9	209.7	208.0	205.3	203.2	200.9	198.8	196.7	194.6
12.5°	219.1	218.9	218.6	218.0	217.4	215.9	213.6	211.1	208.6	204.2	201.9
15°	229.9	230.4	229.9	229.7	229.3	229.5	228.1	224.5	220.5	214.9	210.1
17.5°	244.4	243.9	243.7	244.6	244.4	245.4	245.0	240.4	234.3	225.3	217.0
20°	260.2	260.2	261.1	261.7	263.6	266.3	265.1	259.4	248.3	235.8	224.9
22.5°	279.3	279.7	280.5	280.1	283.0	287.4	287.8	279.9	265.5	248.1	232.9
25°	299.1	299.5	298.7	300.0	304.8	311.0	312.3	301.0	282.0	259.4	239.6
27.5°	317.9	318.4	318.4	320.0	324.6	335.3	336.5	324.0	298.7	269.2	244.4
30°	336.3	338.0	338.4	338.8	345.7	360.6	363.3	345.1	313.3	276.5	247.7
32.5°	359.5	360.2	361.0	362.0	370.0	388.2	388.2	363.3	322.7	281.1	248.3
35°	384.4	384.6	386.5	386.7	398.0	416.2	412.6	378.3	329.4	280.1	243.7
37.5°	399.5	400.3	402.2	404.7	416.6	442.3	434.2	391.3	330.7	273.2	233.3
40°	418.1	419.7	421.6	424.1	441.9	468.9	452.3	399.5	325.5	259.6	217.6
42.5°	438.1	440.4	443.4	448.0	469.1	492.3	466.1	400.7	313.5	244.4	199.0
45°	460.7	464.9	468.2	473.7	497.5	512.5	474.5	393.4	298.5	224.3	179.1
47.5°	486.8	490.2	496.0	501.9	525.7	526.3	475.3	379.2	278.0	204.2	158.0
50°	519.0	521.1	529.9	533.4	555.8	540.8	469.3	360.0	256.5	181.6	134.6
52.5°	561.9	564.8	576.1	581.5	597.4	560.4	460.7	339.0	231.8	156.4	110.6
55°	646.5	659.3	667.2	676.6	686.9	604.9	456.9	316.7	204.0	127.1	87.6
57.5°	884.2	880.0	897.6	918.9	918.7	706.7	479.5	297.5	171.2	97.2	67.3
60°	1238.3	1242.3	1233.3	1246.0	1205.5	833.0	510.5	277.2	134.2	72.3	51.4
62.5°	1501.5	1478.5	1465.7	1450.7	1361.4	846.8	487.9	235.6	97.6	50.8	39.5
65°	1563.8	1536.8	1509.4	1480.8	1346.2	763.4	400.3	172.9	63.1	34.9	31.4
67.5°	1502.3	1459.0	1424.1	1394.7	1233.5	632.7	292.6	106.2	36.2	28.2	26.8
70°	1343.0	1295.2	1238.7	1205.7	1038.7	466.4	187.5	57.3	27.8	25.1	24.5
72.5°	983.1	943.8	882.1	844.3	745.8	283.4	104.7	32.2	25.9	24.0	23.2
75°	382.9	362.5	336.8	338.8	302.5	125.4	47.5	27.8	25.3	23.6	22.8
77.5°	65.8	64.2	59.4	59.4	67.5	45.8	31.6	28.0	25.1	23.2	21.7
80°	39.5	38.7	36.8	36.4	35.1	32.2	30.3	28.4	24.7	21.9	20.1
82.5°	25.9	24.9	24.2	24.0	26.1	28.2	28.4	28.2	23.4	19.0	16.3
85°	11.1	11.1	11.1	11.3	15.1	22.8	23.4	25.1	19.2	14.8	11.7
87.5°	1.9	2.3	2.3	2.5	2.7	5.0	6.3	8.2	6.5	6.3	5.6
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):

	165°	175°	180°
0°	192.1	192.1	192.1
2.5°	186.9	186.5	186.5
5°	186.2	185.8	186.0
7.5°	188.8	187.9	188.1
10°	193.4	192.5	192.1
12.5°	199.2	198.2	198.2
15°	205.3	202.8	202.6
17.5°	210.3	207.2	206.7
20°	215.9	211.7	211.1
22.5°	221.2	215.5	214.7
25°	224.9	218.0	217.0
27.5°	226.6	218.4	217.6
30°	227.8	218.6	217.4
32.5°	226.6	216.8	215.7
35°	219.7	209.0	208.4
37.5°	207.8	195.9	195.0
40°	192.1	179.6	177.5
42.5°	172.0	160.3	158.0
45°	152.6	139.2	138.2
47.5°	131.7	118.9	119.6
50°	109.7	98.2	98.0
52.5°	88.8	78.8	78.2
55°	70.0	62.9	62.3
57.5°	55.4	51.6	51.0
60°	45.2	43.3	42.6
62.5°	36.4	35.7	35.5
65°	30.3	30.3	30.3
67.5°	26.3	26.5	26.5
70°	24.2	24.5	24.2
72.5°	23.4	24.0	24.0
75°	22.8	23.2	22.4
77.5°	22.4	22.6	21.1
80°	22.2	21.9	19.2
82.5°	19.2	18.6	16.3
85°	17.6	13.4	11.3
87.5°	9.0	6.3	4.8
90°	0.0	0.0	0.0

(END OF REPORT)