

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: P180663

Luminaire Tested: **ICM-F01-LED-E1-SL3**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180663
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)
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-SL3
Description: ICON SITE MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2331.6 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

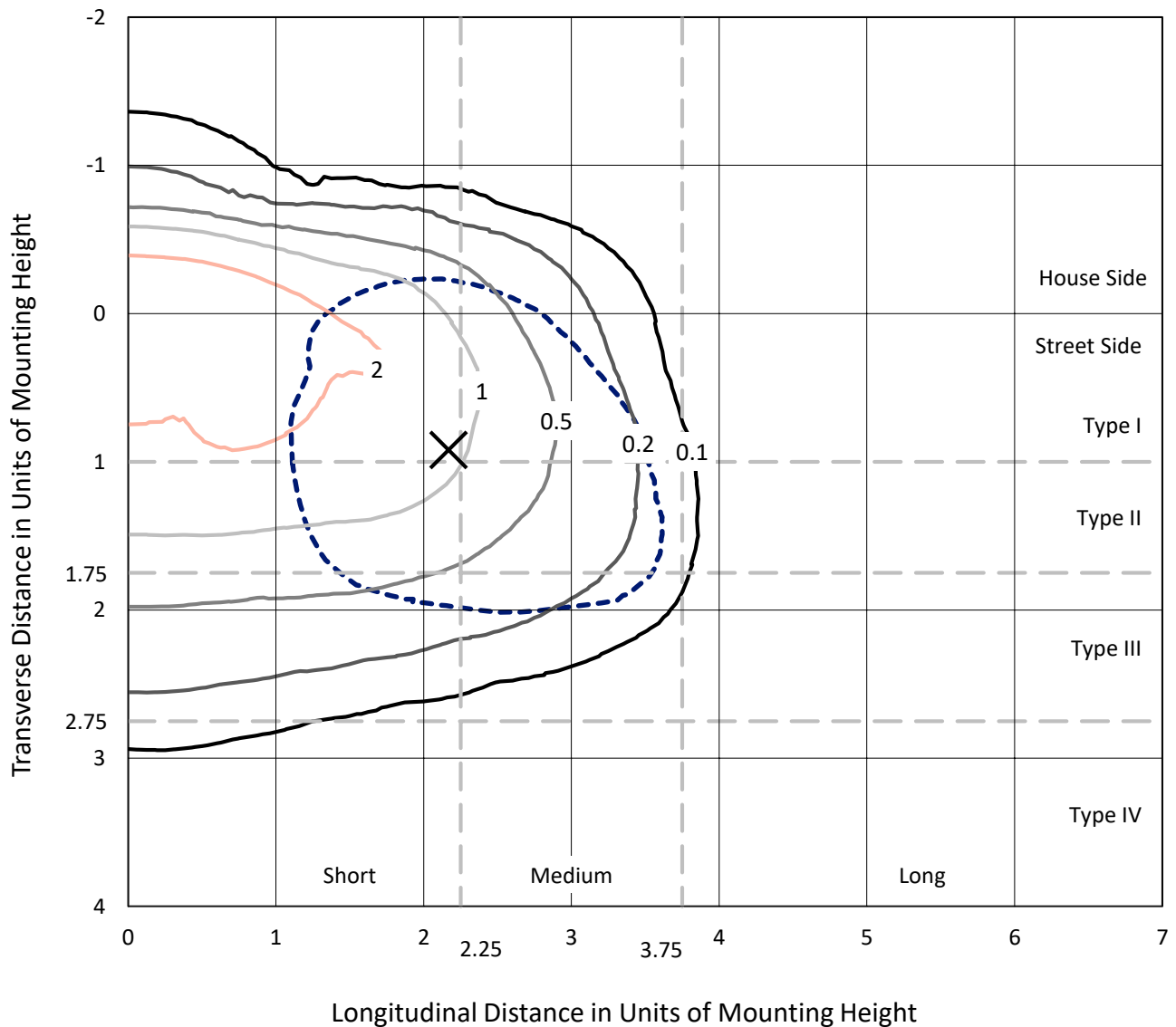
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

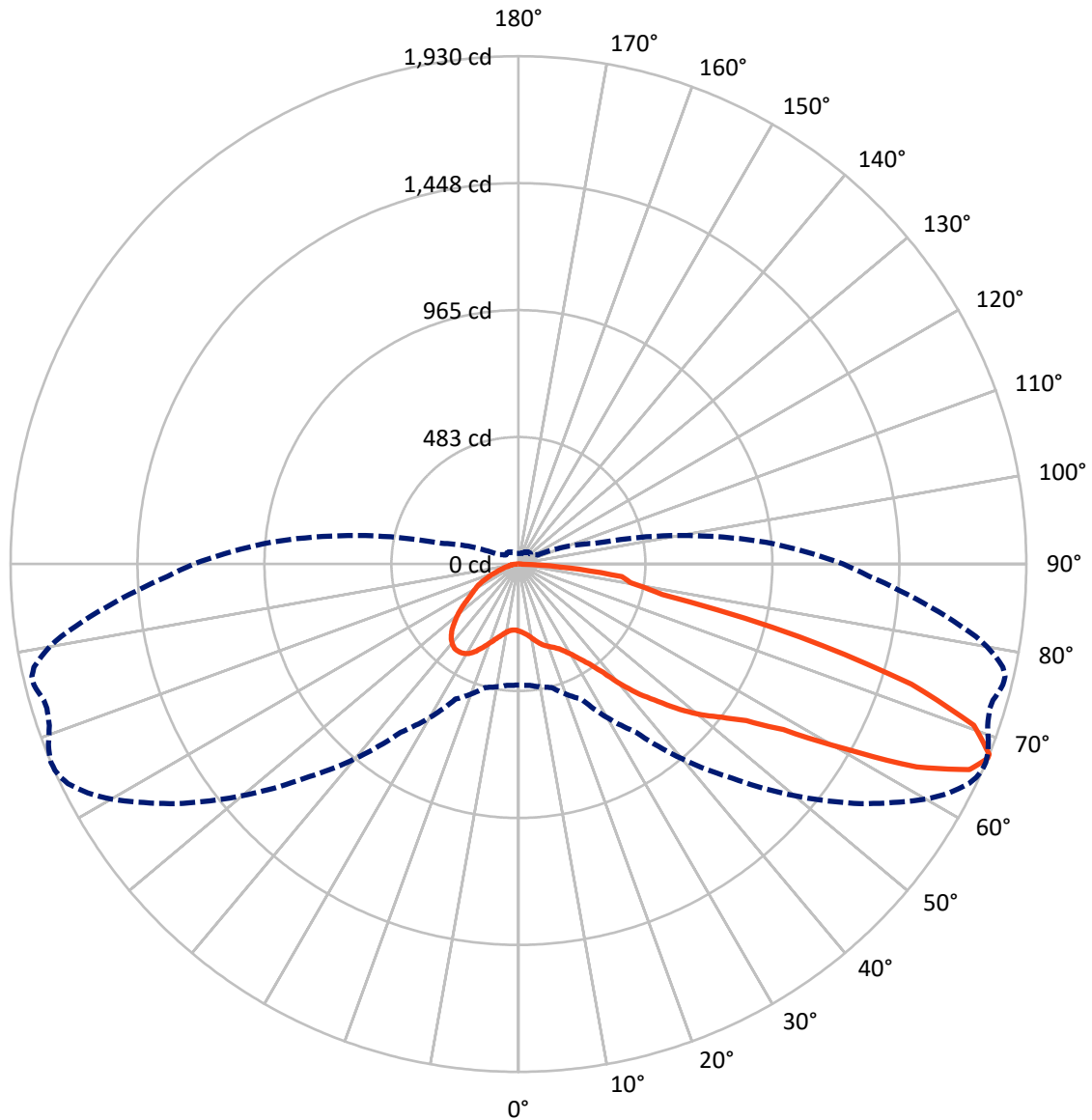
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	538.0	0.0	538.0
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	1793.5	0.0	1793.5
	% Fixture	76.9	0.0	76.9
Total	Lumens	2331.6	0.0	2331.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.4	1.1
10°-20°	87.0	3.7
20°-30°	153.5	6.6
30°-40°	220.4	9.5
40°-50°	334.7	14.4
50°-60°	492.8	21.1
60°-70°	654.9	28.1
70°-80°	320.4	13.7
80°-90°	42.5	1.8
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°	2331.6	100.0
0°-180°	2331.6	100.0



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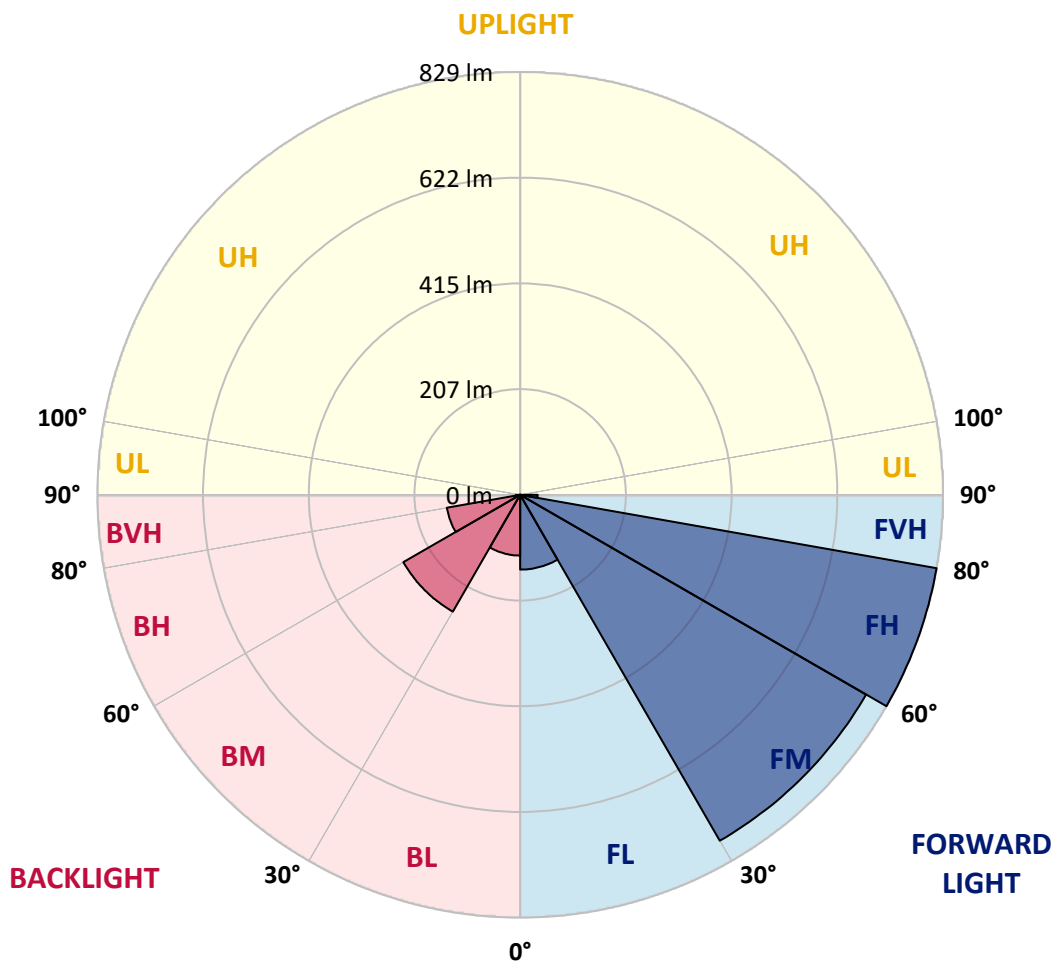
CATALOG NUMBER: ICM-F01-LED-E1-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	146.7	6.3			
FM	(30°-60°)	783.4	33.6			
FH	(60°-80°)	829.3	35.6			G1/1800
FVH	(80°-90°)	34.2	1.5			G1/100
BL	(0°-30°)	119.2	5.1	B1/500		
BM	(30°-60°)	264.5	11.3	B1/1000		
BH	(60°-80°)	146.0	6.3	B1/500		G1/500
BVH	(80°-90°)	8.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7
2.5°	266.7	267.0	266.5	266.2	264.7	263.2	262.1	260.8	260.8	260.8	260.4
5°	281.9	280.8	281.6	279.8	276.7	273.9	271.1	268.7	268.3	268.3	267.3
7.5°	300.0	298.7	298.2	295.6	291.1	287.0	281.3	279.0	277.8	277.2	276.7
10°	322.0	322.0	318.7	314.3	308.2	301.0	294.9	290.8	290.5	290.5	288.2
12.5°	344.6	345.0	340.7	336.4	326.3	316.9	309.8	305.1	304.8	303.8	302.6
15°	365.3	364.0	361.2	354.8	343.8	332.6	323.5	319.0	318.0	316.9	316.1
17.5°	382.4	381.1	377.6	369.4	357.9	344.6	333.6	328.7	328.2	327.6	326.6
20°	393.2	392.2	387.1	377.6	365.5	352.0	340.2	336.8	335.8	335.8	335.4
22.5°	399.4	397.8	390.3	377.9	366.0	356.1	346.3	344.3	343.5	343.8	343.8
25°	402.4	401.1	390.6	372.7	361.4	358.6	354.5	353.2	353.5	353.8	354.2
27.5°	402.9	401.1	388.8	366.0	355.5	363.4	366.3	368.4	368.4	369.4	371.2
30°	399.1	397.0	385.2	360.9	353.0	373.2	384.5	389.9	391.9	391.4	395.4
32.5°	392.4	391.2	381.7	360.9	360.2	392.4	412.4	420.1	421.1	421.6	426.2
35°	390.1	389.9	385.8	373.2	382.4	426.2	456.7	462.5	463.8	463.8	467.2
37.5°	389.6	390.9	395.4	396.3	421.6	476.4	516.3	525.3	525.3	527.8	527.8
40°	389.6	392.4	409.9	430.5	469.5	541.7	596.9	607.2	607.2	610.0	608.5
42.5°	404.7	408.8	437.5	476.9	529.9	608.9	672.5	684.0	684.7	684.0	686.2
45°	434.4	438.0	472.7	529.4	592.1	681.1	744.7	758.4	755.6	757.4	758.2
47.5°	473.8	479.4	519.2	586.7	652.7	748.0	825.5	838.1	837.0	837.8	834.5
50°	515.8	521.7	566.0	643.5	713.1	801.7	890.5	909.2	907.4	908.7	910.5
52.5°	552.9	556.5	599.3	686.2	759.0	851.9	940.5	963.7	967.8	968.4	969.7
55°	574.9	579.3	618.4	707.5	792.3	901.0	997.6	1032.8	1040.8	1042.9	1048.5
57.5°	582.6	587.3	622.8	710.6	810.4	947.1	1077.1	1139.4	1146.1	1157.0	1175.0
60°	582.3	587.3	618.1	703.7	828.8	1004.2	1201.0	1305.2	1339.0	1350.2	1375.9
62.5°	558.5	564.2	595.6	682.7	852.4	1077.1	1385.3	1545.6	1589.1	1609.6	1637.2
65°	506.3	510.4	539.8	629.5	845.8	1149.1	1539.5	1739.4	1779.1	1809.0	1858.4
67°	460.0	462.5	485.6	566.5	780.7	1151.6	1588.1	1787.5	1822.1	1853.8	1904.8
67.5°	448.2	453.6	471.5	547.3	756.4	1137.0	1584.8	1780.1	1815.4	1848.4	1902.2
70°	364.7	372.5	381.4	432.4	594.6	956.6	1467.3	1651.5	1682.5	1713.2	1788.3
72.5°	225.0	238.8	240.7	272.8	387.1	661.2	1187.3	1392.8	1416.1	1438.1	1514.9
75°	132.6	134.6	141.0	167.2	227.1	395.3	796.6	1034.7	1056.2	1066.9	1127.1
77.5°	74.0	76.0	81.4	103.9	174.6	266.2	463.8	607.9	621.0	634.6	624.8
80°	30.7	33.5	36.1	42.0	81.7	210.1	319.0	386.5	395.0	402.9	412.9
82.5°	14.9	15.9	19.4	22.2	29.7	86.2	250.0	335.1	345.0	356.6	379.9
85°	6.9	7.7	10.8	12.8	14.3	21.8	83.7	163.1	176.8	179.4	184.1
87.5°	0.6	0.6	1.3	1.8	2.6	2.8	8.7	12.3	13.9	12.6	15.9
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°	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7
2.5°	260.1	259.8	259.4	259.4	259.1	259.1	259.1	258.5	258.5	258.5	258.3
5°	267.0	266.7	266.0	266.0	265.5	265.5	264.7	264.5	263.9	263.9	263.6
7.5°	275.9	275.7	274.7	274.7	273.9	273.7	273.1	272.4	272.4	271.8	271.4
10°	288.2	287.4	287.2	286.0	286.1	285.7	285.1	284.4	283.9	283.4	282.9
12.5°	302.0	302.0	300.7	300.0	300.6	300.0	299.0	298.7	298.0	298.0	297.2
15°	315.1	315.1	314.6	313.6	313.9	313.0	312.8	312.3	311.3	311.5	311.3
17.5°	326.3	326.3	325.6	325.1	325.1	324.3	324.6	324.1	323.5	323.3	322.5
20°	335.4	335.4	334.8	334.3	334.6	334.6	333.8	333.8	333.8	333.3	333.3
22.5°	344.0	344.3	344.3	344.3	344.6	344.8	344.6	345.0	344.8	345.3	345.3
25°	355.5	356.3	356.8	356.8	358.1	358.3	358.6	359.4	359.4	360.2	360.4
27.5°	372.7	373.2	375.3	375.8	376.0	378.0	378.3	379.4	380.4	380.7	380.9
30°	396.3	397.5	399.1	400.1	400.1	402.7	403.7	403.2	406.0	406.8	407.8
32.5°	427.7	428.7	430.3	431.4	432.4	433.6	433.9	435.2	437.5	439.5	438.2
35°	467.4	470.0	467.4	470.2	471.0	472.7	472.3	473.8	474.8	475.6	475.4
37.5°	525.0	523.7	523.3	522.2	520.4	526.5	523.4	523.3	521.7	526.0	523.3
40°	600.7	601.6	602.3	598.2	595.9	595.9	595.2	592.4	591.1	594.9	594.4
42.5°	679.9	680.7	677.0	674.5	668.7	667.8	664.3	663.5	662.2	664.3	662.2
45°	751.8	752.3	744.4	745.7	741.0	741.9	736.2	738.5	735.4	737.5	741.3
47.5°	832.2	833.2	826.3	829.1	824.5	821.7	821.4	823.0	819.6	821.7	822.7
50°	905.1	903.8	900.3	901.0	899.0	899.5	896.5	899.3	895.4	899.5	899.0
52.5°	969.9	968.4	967.6	970.1	968.4	968.4	966.6	967.8	968.4	974.5	975.8
55°	1048.5	1049.8	1051.1	1055.6	1057.7	1054.3	1057.7	1064.1	1064.4	1079.0	1086.9
57.5°	1174.7	1183.6	1188.3	1191.1	1203.1	1201.8	1209.5	1224.8	1226.4	1260.2	1279.9
60°	1394.8	1410.7	1425.8	1417.6	1442.0	1449.3	1454.0	1482.6	1491.5	1523.5	1540.8
62.5°	1672.8	1674.6	1698.1	1690.7	1704.6	1701.2	1706.9	1719.9	1731.7	1758.1	1774.2
65°	1866.9	1875.3	1884.5	1875.1	1874.8	1863.5	1856.4	1856.1	1863.3	1868.9	1886.8
67°	1919.5	1928.0	1930.3	1923.5	1913.4	1899.1	1885.8	1878.9	1874.2	1876.8	1888.1
67.5°	1919.1	1927.0	1929.8	1923.2	1909.3	1897.3	1883.3	1875.3	1869.1	1870.4	1879.9
70°	1810.1	1827.2	1836.4	1838.4	1836.7	1815.6	1803.6	1796.5	1791.4	1778.8	1778.1
72.5°	1533.6	1554.3	1561.5	1573.0	1578.1	1547.2	1534.1	1542.1	1524.1	1484.4	1486.2
75°	1126.1	1127.5	1103.5	1098.9	1081.8	1011.6	990.6	971.4	940.7	892.8	847.8
77.5°	587.0	586.7	559.1	544.9	524.5	482.2	480.2	446.0	421.9	378.0	362.2
80°	417.0	423.6	432.8	437.5	430.3	414.0	391.4	367.1	339.2	311.8	279.0
82.5°	387.8	391.9	396.7	378.9	368.8	345.9	328.7	293.4	273.7	242.4	209.4
85°	188.7	201.2	191.4	180.2	176.4	138.0	133.4	111.3	101.1	83.2	77.6
87.5°	12.0	14.9	13.3	12.0	10.5	5.9	7.9	5.7	5.9	4.4	3.8
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°	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7
2.5°	258.3	258.0	257.8	257.5	257.3	257.3	257.0	256.7	256.5	256.0	256.0
5°	263.2	263.2	262.9	262.4	262.4	261.9	261.1	260.8	260.8	260.4	259.8
7.5°	271.1	270.8	270.3	270.0	269.6	269.0	268.6	268.0	267.7	267.0	266.7
10°	283.1	282.6	281.3	280.8	280.6	280.0	279.5	279.0	278.2	277.8	277.5
12.5°	296.7	296.5	295.4	295.9	294.6	294.1	293.6	292.3	292.8	291.8	291.3
15°	310.2	310.5	310.0	310.0	308.9	308.2	307.7	306.7	306.4	305.9	305.4
17.5°	322.2	322.8	322.0	321.5	321.0	320.5	319.4	318.4	318.4	317.4	316.9
20°	333.3	333.8	333.6	333.0	332.3	332.0	331.5	330.7	330.7	330.2	329.5
22.5°	345.9	346.0	346.0	345.9	345.0	345.3	344.8	344.0	344.3	343.3	343.3
25°	360.9	361.4	362.0	362.2	361.7	362.0	361.4	360.9	360.7	360.9	360.7
27.5°	381.7	382.1	383.7	382.4	383.7	384.0	383.2	382.1	383.0	384.2	383.4
30°	409.0	408.6	410.6	410.9	410.6	410.9	410.3	409.6	410.0	412.4	411.1
32.5°	439.8	440.8	441.3	441.9	442.6	443.6	442.9	442.0	443.4	442.6	444.4
35°	476.9	479.2	480.0	479.2	479.7	481.5	481.2	481.5	484.1	481.5	484.8
37.5°	523.7	526.0	527.8	526.8	528.1	528.1	530.1	535.7	532.2	536.7	540.4
40°	591.8	595.4	595.6	595.4	596.7	598.2	600.3	606.4	602.3	607.2	610.5
42.5°	662.0	666.3	667.8	665.3	668.1	671.4	671.7	677.0	677.3	678.1	679.9
45°	741.0	744.9	748.0	746.7	747.0	751.3	750.2	755.4	751.5	751.5	752.6
47.5°	825.3	828.8	830.9	832.9	830.4	834.2	836.0	835.0	830.4	829.4	823.3
50°	902.1	905.1	908.2	913.9	913.6	915.4	916.7	912.0	911.0	905.4	898.5
52.5°	983.4	991.4	998.3	1010.1	1011.9	1018.1	1015.7	1008.0	1006.8	997.6	988.4
55°	1096.8	1119.6	1129.6	1147.8	1160.1	1159.8	1154.7	1153.4	1143.7	1125.3	1114.2
57.5°	1294.2	1329.8	1347.0	1370.5	1374.3	1372.0	1365.4	1353.6	1336.8	1305.8	1285.8
60°	1579.2	1601.1	1621.1	1626.7	1629.6	1625.2	1601.9	1575.8	1542.8	1500.0	1464.5
62.5°	1794.4	1816.9	1831.8	1829.5	1811.8	1789.5	1755.5	1711.7	1665.4	1617.5	1564.3
65°	1904.0	1913.4	1911.2	1893.2	1863.0	1824.1	1774.4	1720.5	1665.9	1609.3	1554.1
67°	1898.1	1898.3	1882.7	1847.9	1809.2	1760.4	1699.7	1640.8	1576.8	1517.4	1451.6
67.5°	1887.5	1886.5	1864.8	1826.6	1784.9	1734.5	1671.5	1610.6	1544.3	1484.4	1416.3
70°	1768.8	1754.4	1705.3	1644.4	1586.3	1518.2	1452.2	1382.2	1307.5	1256.1	1177.8
72.5°	1453.4	1405.0	1320.4	1256.6	1194.4	1105.3	1064.1	977.3	924.8	892.1	832.9
75°	841.7	801.2	735.7	676.0	645.9	593.1	568.0	504.3	491.0	490.4	470.0
77.5°	321.2	280.3	238.0	191.7	163.1	129.5	114.1	102.1	92.9	99.3	90.1
80°	240.8	198.1	154.9	112.7	80.4	59.3	51.0	47.1	44.8	43.0	41.8
82.5°	179.4	141.6	109.9	71.6	50.1	37.9	32.7	30.7	29.7	27.9	26.3
85°	60.7	48.7	38.4	26.6	21.0	17.1	15.9	15.3	14.6	13.3	12.6
87.5°	3.3	3.1	3.3	2.6	3.1	2.6	2.8	2.8	2.8	2.6	2.6
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7
2.5°	255.7	255.7	255.7	255.2	254.4	252.9	251.4	250.0	248.8	248.0	247.5
5°	259.5	259.1	258.8	258.5	256.7	253.7	250.9	248.3	245.8	243.7	242.9
7.5°	266.5	265.5	265.2	264.5	262.1	257.5	253.4	249.3	245.8	242.9	241.7
10°	276.9	276.9	275.4	274.4	271.8	265.7	259.8	254.4	249.6	246.5	245.8
12.5°	290.2	290.2	289.0	288.2	285.1	277.2	270.0	263.6	259.1	256.0	255.7
15°	304.1	303.8	302.8	301.8	298.5	290.0	282.9	277.2	273.4	269.8	268.7
17.5°	316.4	316.4	315.1	314.0	310.8	303.6	297.2	293.1	288.7	281.3	275.7
20°	328.7	328.9	327.9	326.9	324.1	318.0	315.1	311.0	301.3	285.1	271.8
22.5°	342.2	343.3	342.0	340.9	338.7	336.1	335.1	325.3	304.8	279.0	259.5
25°	359.6	361.4	359.9	359.4	358.1	358.9	355.8	333.3	299.7	265.7	241.4
27.5°	383.4	383.4	383.7	383.7	383.2	386.0	374.8	333.6	288.5	248.6	219.6
30°	411.4	412.9	412.4	412.4	414.4	416.2	385.2	327.9	274.1	227.4	193.0
32.5°	444.9	446.1	446.7	444.4	452.6	443.4	389.1	317.7	256.5	200.9	161.3
35°	485.3	487.2	488.4	488.7	494.0	466.9	387.1	302.6	231.2	167.9	126.4
37.5°	538.0	541.7	544.5	545.8	546.0	486.9	381.4	282.6	198.1	131.1	94.2
40°	608.2	612.0	611.3	613.9	599.3	498.6	368.7	253.7	157.2	96.3	72.7
42.5°	675.8	676.3	677.3	675.0	645.3	504.7	350.7	218.3	117.8	71.9	62.2
45°	751.3	747.0	742.1	738.5	687.8	507.1	326.1	175.3	83.2	60.4	57.6
47.5°	822.2	816.3	806.3	796.1	725.7	503.5	294.6	131.3	63.3	55.3	54.5
50°	891.8	880.8	866.7	855.0	762.1	498.1	259.8	94.7	55.3	52.7	52.0
52.5°	978.1	959.6	941.2	925.9	809.4	489.7	223.3	71.9	52.0	50.7	49.7
55°	1096.4	1070.8	1041.0	1019.5	873.7	476.9	184.8	60.9	50.4	49.4	47.9
57.5°	1260.2	1221.8	1188.3	1153.2	961.5	463.8	151.8	56.6	50.1	48.7	46.6
60°	1427.6	1381.5	1338.8	1288.6	1051.1	450.8	128.7	56.1	51.0	48.7	45.6
62.5°	1514.6	1467.0	1415.5	1364.7	1089.7	420.1	112.9	56.8	52.7	49.4	45.6
65°	1494.6	1436.6	1384.3	1332.4	1044.9	362.0	95.4	57.9	56.3	52.5	46.3
67°	1394.3	1333.7	1283.4	1233.8	945.0	303.1	82.0	58.9	60.2	56.1	47.9
67.5°	1359.0	1298.3	1248.9	1200.6	915.6	290.8	78.6	59.3	60.9	57.1	48.4
70°	1126.8	1082.2	1029.8	992.5	741.3	215.3	64.5	60.4	65.5	63.0	50.7
72.5°	811.0	768.5	729.0	708.3	546.0	150.5	54.2	59.3	68.4	66.3	51.7
75°	431.1	428.5	414.1	424.4	337.9	98.3	47.9	55.5	65.3	60.7	48.1
77.5°	87.1	89.6	105.2	103.6	109.0	54.8	40.9	47.6	50.4	44.6	39.2
80°	40.5	39.7	38.9	39.4	38.7	35.1	33.3	37.4	35.1	28.7	26.1
82.5°	25.1	24.6	23.8	23.5	26.1	27.9	29.2	29.4	23.3	20.0	19.2
85°	12.0	12.0	11.8	12.3	15.3	22.8	24.6	21.8	15.6	14.3	13.6
87.5°	2.3	2.3	2.6	2.3	3.1	5.4	6.1	7.2	5.9	6.1	6.9
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):

	165°	175°	180°
0°	254.7	254.7	254.7
2.5°	247.0	246.5	246.5
5°	241.9	241.7	241.7
7.5°	240.7	240.8	240.7
10°	245.5	245.2	246.2
12.5°	256.3	257.0	256.7
15°	267.5	268.0	268.0
17.5°	270.8	269.0	268.7
20°	262.1	258.8	258.0
22.5°	245.8	239.6	239.8
25°	225.0	217.6	218.0
27.5°	200.9	193.0	192.7
30°	172.0	163.3	159.0
32.5°	137.2	126.7	126.7
35°	103.2	94.7	91.6
37.5°	78.3	73.5	71.9
40°	65.3	63.0	62.4
42.5°	59.3	58.6	58.3
45°	56.3	55.8	55.5
47.5°	53.5	53.2	53.0
50°	51.4	51.2	51.0
52.5°	49.7	49.1	48.9
55°	47.1	47.1	47.1
57.5°	45.6	45.6	45.3
60°	44.0	43.8	43.8
62.5°	42.8	42.2	42.5
65°	42.0	41.2	41.2
67°	41.5	39.9	39.9
67.5°	41.5	39.4	39.4
70°	40.7	37.4	36.8
72.5°	39.9	35.1	34.3
75°	37.9	33.3	32.5
77.5°	32.5	29.7	29.2
80°	25.1	21.8	22.2
82.5°	18.1	15.6	15.3
85°	13.0	11.3	11.3
87.5°	6.9	5.9	6.1
90°	0.0	0.0	0.0

(END OF REPORT)