

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: P180381

Luminaire Tested: **ICM-F03-LED-E1-SL2-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180381
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F03-LED-E1-SL2-HSS-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3565.2 lumens
Efficiency: N/A
Efficacy: 45.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

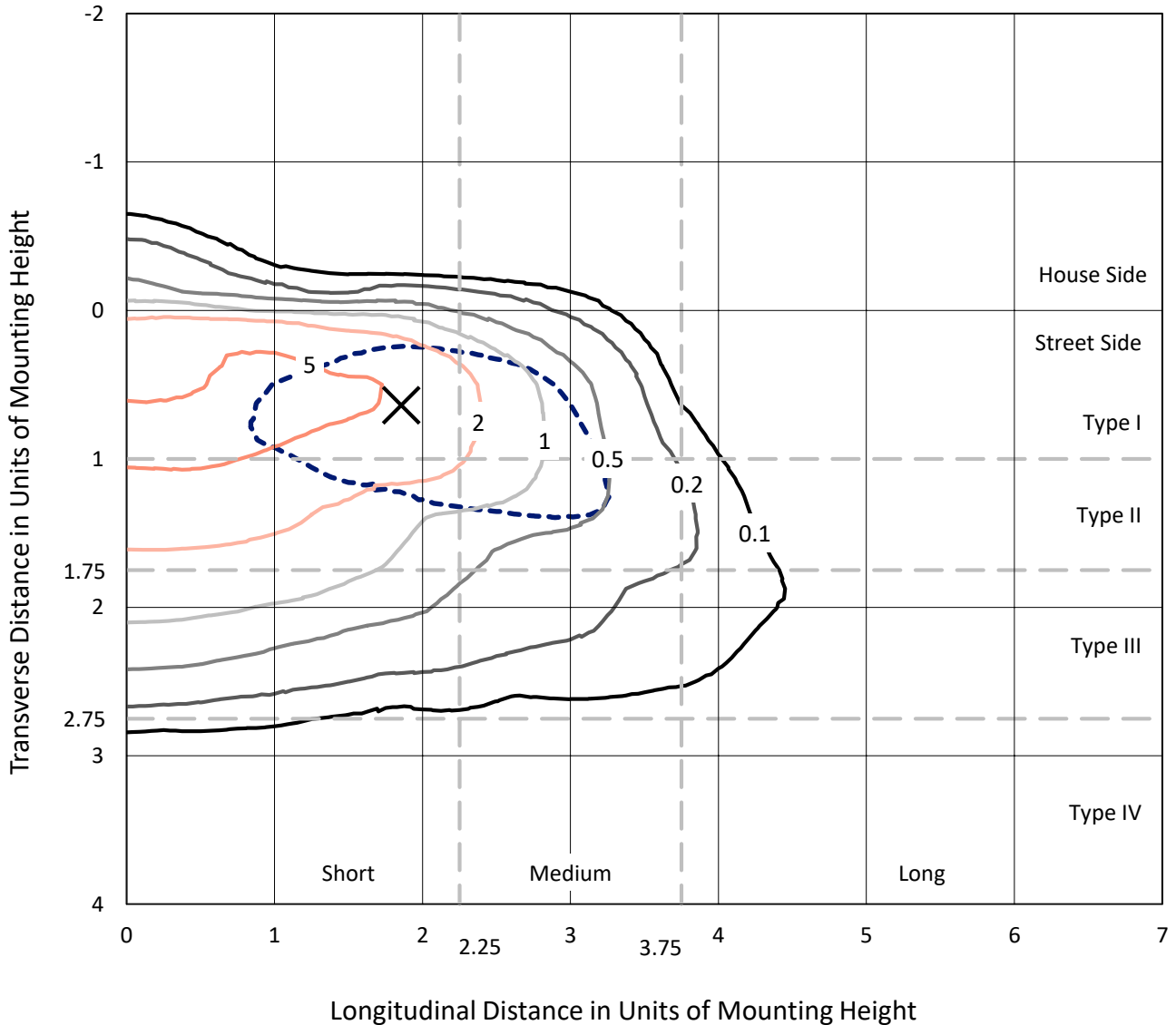
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

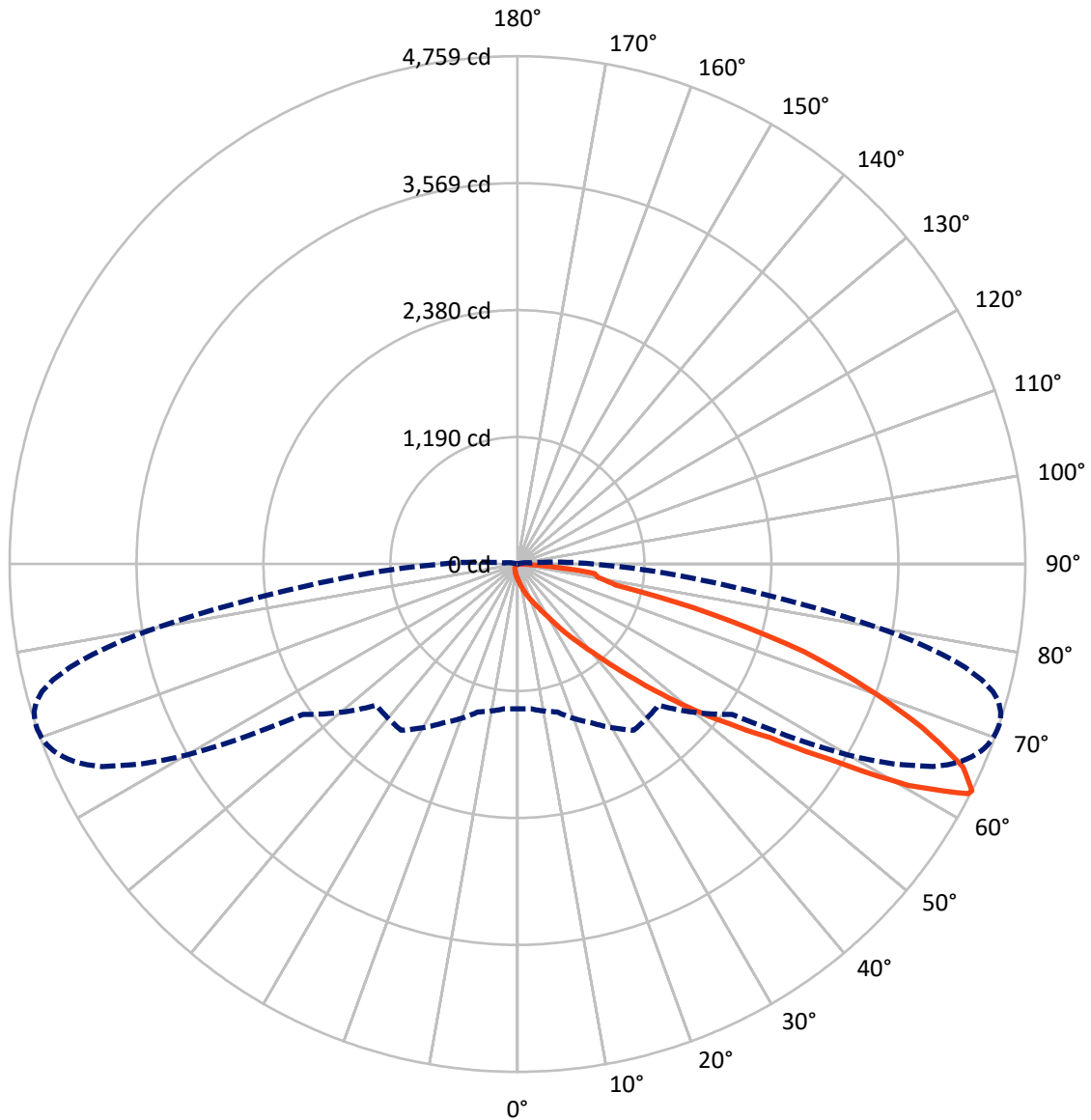
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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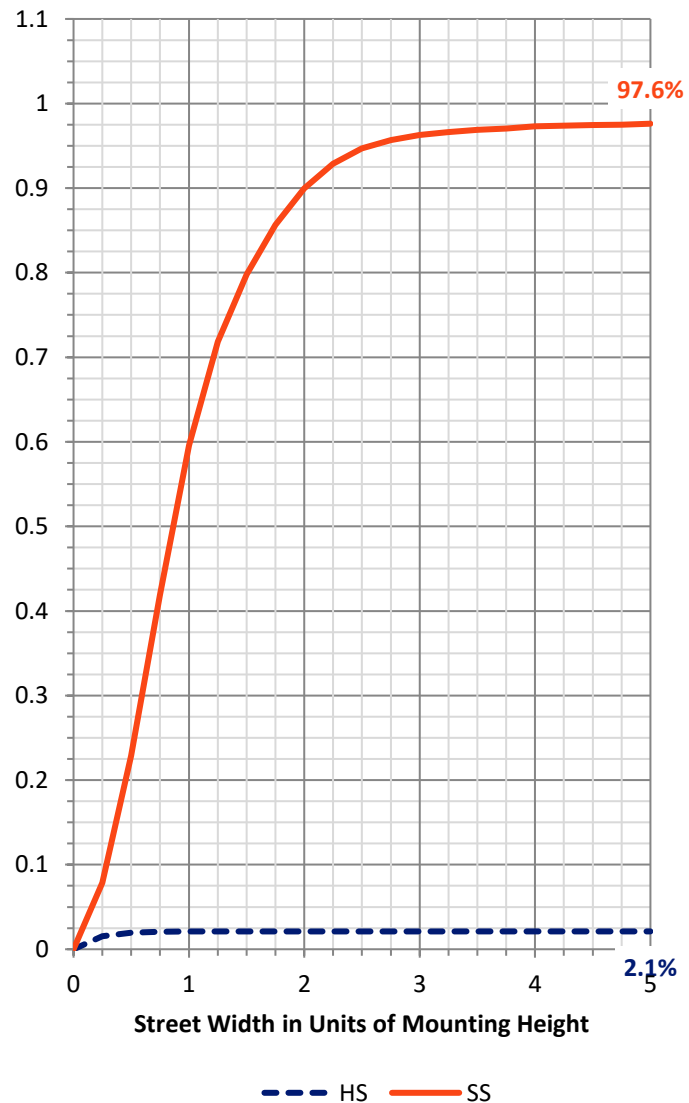
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	75.7	0.0	75.7
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	3489.5	0.0	3489.5
	% Fixture	97.9	0.0	97.9
Total	Lumens	3565.2	0.0	3565.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.1	0.4
10°-20°	58.6	1.6
20°-30°	119.1	3.3
30°-40°	290.9	8.2
40°-50°	650.6	18.2
50°-60°	914.8	25.7
60°-70°	1075.7	30.2
70°-80°	388.4	10.9
80°-90°	51.9	1.5
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°	3565.2	100.0
0°-180°	3565.2	100.0



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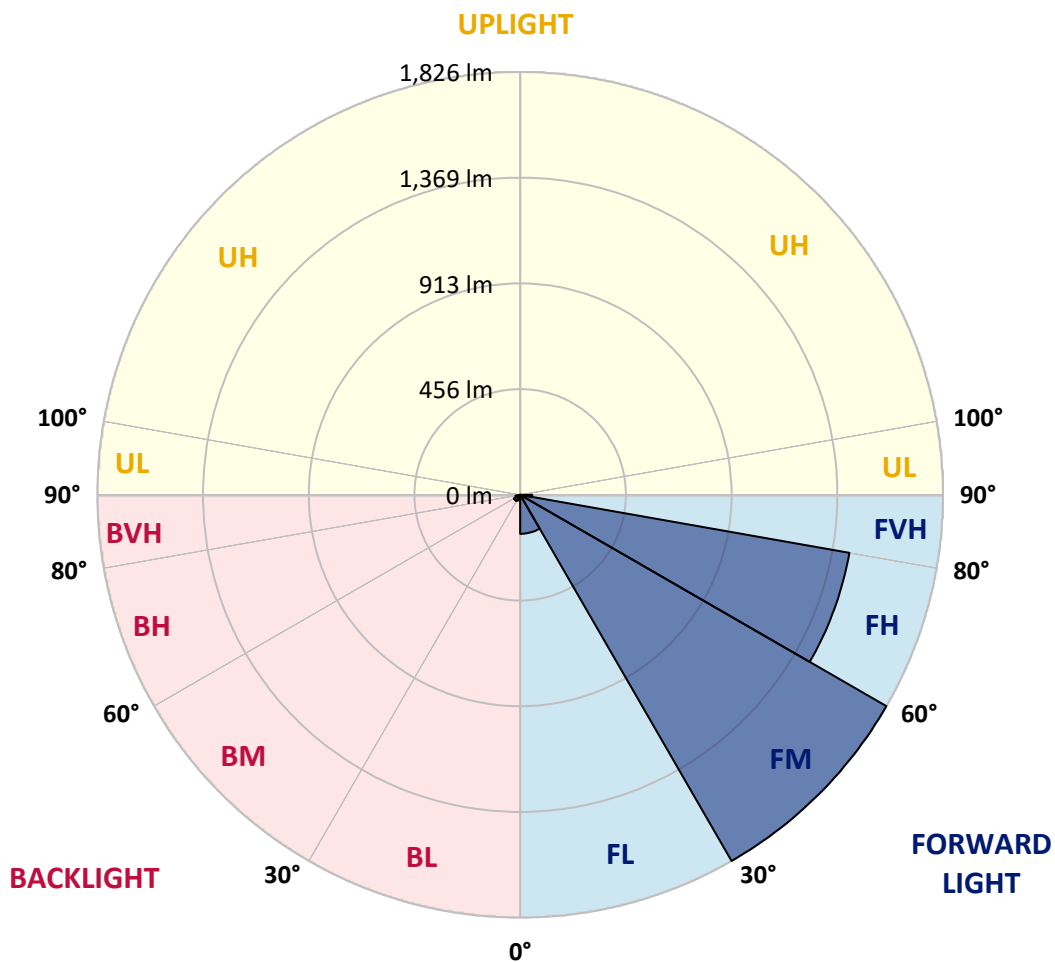
CATALOG NUMBER: ICM-F03-LED-E1-SL2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	168.5	4.7			
FM	(30°-60°)	1825.8	51.2			
FH	(60°-80°)	1443.4	40.5			G1/1800
FVH	(80°-90°)	51.8	1.5			G1/100
BL	(0°-30°)	24.3	0.7	B0/110		
BM	(30°-60°)	30.5	0.9	B0/220		
BH	(60°-80°)	20.8	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7
2.5°	178.9	180.8	179.5	176.3	172.4	167.3	162.7	162.7	162.0	160.1	160.7
5°	234.6	235.3	232.7	224.9	217.8	206.8	194.4	193.1	191.8	189.9	189.2
7.5°	289.0	291.6	289.0	280.7	266.4	249.5	230.0	228.2	224.3	224.3	221.7
10°	344.8	344.8	342.2	332.5	319.5	295.5	270.9	267.7	263.2	261.9	258.0
12.5°	384.4	384.4	383.1	377.9	367.4	346.1	316.3	313.0	307.3	305.3	300.7
15°	399.9	399.9	400.6	405.1	405.8	396.0	364.9	362.3	356.5	351.3	349.3
17.5°	409.6	408.9	408.9	415.4	427.1	433.6	413.5	410.9	404.5	401.9	395.4
20°	431.0	429.7	425.9	425.9	436.8	459.5	459.5	458.9	451.7	449.8	446.6
22.5°	462.8	461.5	449.8	440.1	445.3	473.8	500.4	499.1	496.5	493.9	491.9
25°	514.6	510.0	490.0	461.5	456.9	487.4	531.4	534.7	536.7	536.7	538.0
27.5°	593.0	587.2	551.5	498.4	478.3	509.4	565.9	572.3	578.1	579.4	585.3
30°	702.0	691.5	640.4	562.6	516.6	541.9	616.4	623.5	631.9	634.5	643.6
32.5°	880.8	875.0	825.7	709.0	610.5	605.4	687.0	696.1	707.1	711.6	722.7
35°	1153.0	1154.3	1114.1	1009.1	873.0	801.8	813.4	821.2	825.0	838.7	844.5
37.5°	1337.8	1340.9	1350.1	1308.6	1211.4	1138.8	1047.4	1055.8	1035.7	1037.7	1038.3
40°	1438.9	1449.2	1502.3	1542.5	1534.8	1492.7	1419.5	1423.9	1386.3	1378.0	1337.1
42.5°	1506.2	1519.8	1604.8	1729.2	1792.8	1831.0	1814.2	1812.2	1783.0	1772.0	1737.6
45°	1548.4	1560.7	1667.6	1851.1	1997.5	2109.0	2155.0	2160.2	2135.5	2124.6	2096.0
47.5°	1546.4	1560.7	1675.5	1896.4	2112.3	2290.5	2420.1	2426.6	2441.5	2431.8	2433.7
50°	1460.8	1474.5	1589.9	1819.3	2078.5	2373.4	2610.7	2631.4	2655.4	2671.6	2679.4
52.5°	1357.2	1366.9	1469.3	1687.1	1934.7	2339.1	2723.5	2759.1	2794.7	2825.2	2846.6
55°	1319.0	1330.0	1410.3	1591.2	1819.3	2195.2	2775.9	2828.5	2879.0	2928.9	2969.7
57.5°	1339.1	1349.4	1407.1	1545.8	1750.6	2043.5	2790.8	2872.5	2955.5	3036.5	3116.9
60°	1412.9	1423.9	1473.2	1587.9	1732.5	1956.0	2732.5	2868.0	3006.1	3147.3	3280.2
62.5°	1383.7	1388.3	1460.8	1661.8	1862.1	1881.5	2520.6	2709.9	2920.5	3138.3	3352.8
63°	1355.9	1361.0	1435.0	1641.7	1901.6	1870.5	2455.1	2654.7	2877.0	3111.6	3345.0
65°	1229.5	1230.1	1286.5	1449.9	1857.5	1890.0	2163.5	2354.0	2609.4	2890.6	3185.6
67.5°	917.8	913.2	967.6	1092.1	1458.3	1890.6	1856.8	1963.8	2141.4	2391.0	2655.4
70°	325.4	318.2	406.4	578.8	908.7	1546.4	1595.7	1602.8	1652.1	1786.9	1952.8
72.5°	105.7	107.6	129.6	211.9	418.7	1040.9	1444.7	1422.6	1409.7	1409.0	1431.1
75°	42.1	42.8	51.8	94.0	188.0	501.7	1265.1	1277.5	1282.0	1288.5	1295.6
77.5°	20.1	22.0	29.2	52.5	93.3	248.2	905.4	1009.8	1069.4	1115.4	1143.3
80°	7.2	8.5	16.2	32.4	43.4	114.0	477.0	575.5	663.1	775.8	873.0
82.5°	0.0	0.0	3.3	22.7	24.0	46.0	195.7	229.4	262.5	340.3	436.8
85°	0.0	0.0	0.0	6.5	7.2	7.8	66.1	79.7	89.4	104.4	120.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	3.9	9.8	14.9
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7
2.5°	159.4	158.8	158.8	157.5	156.8	155.5	154.9	152.9	152.3	152.3	152.3
5°	188.7	186.0	184.7	181.5	179.5	178.9	175.6	174.3	172.4	173.0	169.8
7.5°	221.0	216.5	214.5	210.0	208.7	204.2	202.9	199.6	197.7	193.8	192.5
10°	256.7	250.8	247.6	240.5	238.5	235.3	231.4	227.5	224.3	220.4	218.4
12.5°	297.5	292.3	289.7	280.0	275.4	270.9	265.8	260.6	255.4	252.1	247.6
15°	345.5	337.0	334.4	325.4	317.6	311.7	304.7	298.1	294.2	287.8	283.3
17.5°	392.7	384.4	382.4	368.7	360.4	356.5	348.7	340.3	333.1	326.7	319.5
20°	440.1	434.2	429.0	416.1	407.0	400.6	390.1	381.8	375.9	366.9	357.8
22.5°	487.4	481.6	477.7	464.1	455.6	446.6	437.5	428.4	420.0	408.9	398.6
25°	536.0	532.1	530.1	517.9	510.0	501.7	492.6	482.2	471.8	459.5	448.5
27.5°	586.5	587.8	584.0	581.4	572.9	567.1	552.8	545.8	538.0	523.1	509.4
30°	650.7	654.6	653.3	655.3	650.1	646.1	635.2	626.1	617.0	602.8	587.2
32.5°	731.7	736.9	739.5	746.6	744.1	742.8	739.5	726.5	720.1	695.4	688.9
35°	856.8	854.2	865.2	871.1	868.5	867.2	863.4	856.2	848.4	830.9	814.7
37.5°	1019.5	1022.1	1026.0	1014.3	1006.5	1005.9	994.2	987.1	976.1	956.7	937.2
40°	1317.7	1301.4	1283.3	1234.1	1212.7	1200.4	1166.0	1156.3	1137.5	1110.9	1090.8
42.5°	1705.2	1689.0	1634.6	1552.3	1508.2	1447.3	1419.5	1385.0	1358.5	1315.1	1291.7
45°	2090.2	2043.5	2037.0	1941.1	1886.7	1806.3	1756.5	1698.7	1638.4	1581.4	1539.9
47.5°	2414.9	2404.6	2372.8	2314.4	2263.9	2196.5	2132.4	2043.5	1981.3	1900.3	1825.8
50°	2674.8	2674.2	2662.5	2628.9	2586.7	2532.2	2475.8	2400.7	2330.1	2230.9	2151.2
52.5°	2869.2	2879.6	2883.6	2873.1	2856.9	2809.0	2780.5	2717.6	2658.0	2573.7	2487.6
55°	3011.8	3050.1	3069.5	3091.6	3087.1	3070.2	3068.9	3028.0	3000.9	2934.1	2873.1
57.5°	3188.1	3251.0	3311.3	3418.3	3422.2	3459.7	3479.2	3498.6	3503.8	3477.2	3457.1
60°	3412.4	3540.8	3654.8	3878.4	3936.8	4028.8	4088.4	4153.2	4208.3	4212.9	4211.6
62.5°	3570.5	3768.2	3952.3	4284.1	4397.6	4503.8	4583.6	4646.4	4684.7	4723.6	4741.7
63°	3575.1	3791.6	3987.3	4329.5	4448.8	4549.9	4625.7	4684.0	4724.2	4747.6	4759.2
65°	3465.5	3728.0	3961.3	4302.3	4414.4	4516.2	4555.7	4594.0	4613.4	4622.4	4588.1
67.5°	2937.3	3194.0	3466.2	3847.3	3943.2	4065.0	4097.5	4117.0	4126.0	4124.0	4094.9
70°	2196.5	2411.7	2714.3	3149.9	3277.0	3396.2	3470.1	3501.9	3512.2	3509.0	3465.5
72.5°	1533.5	1659.8	1909.4	2394.2	2567.3	2720.2	2811.6	2858.9	2868.7	2849.1	2809.0
75°	1287.8	1294.3	1350.7	1615.8	1777.8	1941.1	2044.2	2074.1	2054.6	1995.5	1893.2
77.5°	1149.8	1164.0	1164.0	1203.5	1235.4	1280.7	1290.4	1217.9	1133.6	1024.7	936.6
80°	964.4	1014.3	1049.3	1078.5	1081.8	1072.7	1048.7	1007.8	943.1	860.1	768.0
82.5°	585.9	684.5	724.7	875.0	948.8	998.8	994.9	940.5	891.2	804.9	726.5
85°	147.8	159.4	173.0	224.9	252.1	307.8	342.9	359.1	364.9	335.1	303.4
87.5°	14.2	9.8	16.2	12.3	17.5	12.9	17.5	16.2	20.1	21.4	23.3
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7
2.5°	151.0	150.3	149.7	149.0	148.5	147.8	146.5	146.5	145.2	144.6	143.9
5°	167.9	166.6	166.0	164.7	162.7	161.4	159.4	156.8	154.9	154.2	152.9
7.5°	189.2	186.0	184.7	182.8	180.2	176.3	173.7	171.7	168.6	166.6	162.7
10°	213.2	210.0	206.1	202.2	198.3	193.8	190.5	188.0	182.8	180.2	175.6
12.5°	243.7	237.9	233.3	228.2	223.0	217.8	213.9	206.1	201.6	195.7	191.8
15°	274.8	269.6	264.5	258.0	250.1	241.8	237.9	230.7	224.9	215.8	210.6
17.5°	312.4	302.7	294.9	287.2	280.0	272.2	264.5	253.4	245.0	237.2	226.9
20°	349.3	337.7	329.2	318.9	308.5	296.2	287.2	279.4	267.7	257.3	246.3
22.5°	388.8	377.2	363.6	353.2	339.0	329.2	316.9	304.0	292.3	278.7	265.1
25°	436.8	424.6	408.9	395.4	379.2	365.6	350.6	335.7	321.5	306.0	288.4
27.5°	495.8	482.9	466.0	449.8	428.4	411.5	397.3	377.2	359.1	339.6	319.5
30°	570.3	556.1	535.4	512.0	490.6	471.8	451.7	425.2	405.1	381.8	355.8
32.5°	667.5	650.7	622.9	600.8	574.2	549.6	521.8	495.2	466.6	436.2	406.4
35°	790.1	774.5	742.1	709.7	680.6	651.4	616.4	585.9	545.8	508.7	470.5
37.5°	917.1	889.2	859.4	824.4	788.1	753.1	710.3	668.2	622.2	582.1	534.0
40°	1062.2	1028.6	1003.9	966.3	915.2	865.2	825.7	773.2	715.5	661.8	605.4
42.5°	1261.2	1223.6	1179.6	1122.5	1085.6	1027.3	976.1	913.9	838.1	777.8	709.7
45°	1491.4	1440.1	1397.4	1342.2	1297.6	1224.9	1165.3	1082.3	1006.5	927.4	844.5
47.5°	1753.9	1690.3	1628.1	1573.7	1502.3	1431.1	1355.3	1267.1	1169.9	1083.0	984.5
50°	2055.2	1965.1	1878.9	1808.9	1711.1	1628.8	1546.4	1447.3	1339.7	1239.9	1127.7
52.5°	2390.3	2286.0	2171.9	2064.3	1950.9	1845.2	1746.1	1632.0	1512.1	1390.2	1265.1
55°	2794.7	2716.3	2582.2	2445.4	2293.7	2152.5	2024.8	1883.5	1737.6	1577.6	1446.0
57.5°	3427.9	3389.7	3277.6	3140.9	2943.2	2771.4	2554.9	2381.9	2170.6	1950.2	1780.4
60°	4286.1	4238.8	4175.9	4065.0	3908.2	3674.9	3436.4	3167.4	2846.0	2540.7	2251.0
62.5°	4743.7	4726.8	4675.7	4599.1	4452.7	4268.6	4028.1	3732.6	3369.6	2998.9	2629.5
63°	4757.2	4735.8	4691.8	4614.1	4485.1	4306.8	4070.9	3783.7	3428.6	3050.7	2673.5
65°	4573.2	4564.8	4520.0	4435.2	4347.0	4210.9	4028.1	3781.2	3483.1	3126.0	2750.6
67.5°	4056.0	4030.7	3962.0	3936.1	3874.5	3779.9	3640.6	3470.7	3257.5	2976.9	2652.8
70°	3430.5	3393.0	3306.7	3260.8	3185.6	3126.0	3041.0	2919.8	2788.3	2592.5	2350.8
72.5°	2767.6	2689.8	2610.7	2490.8	2385.8	2279.5	2185.5	2099.9	1955.5	1876.3	1692.9
75°	1797.2	1656.0	1520.5	1339.1	1175.7	1031.2	890.5	819.3	670.8	610.5	524.4
77.5°	852.9	773.9	667.5	585.3	480.3	392.1	320.2	240.5	188.7	147.8	112.7
80°	688.3	621.6	557.4	482.9	403.8	322.1	247.0	184.7	130.9	90.7	64.2
82.5°	613.8	541.2	462.1	410.9	357.1	292.3	239.8	195.7	144.6	105.7	71.9
85°	238.5	200.9	154.9	126.4	98.5	81.0	73.2	50.5	39.5	31.1	24.0
87.5°	20.7	16.8	13.6	9.1	9.8	5.2	5.9	3.9	3.3	3.3	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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7
2.5°	143.3	142.6	142.0	140.7	140.7	139.3	138.7	138.0	134.8	127.7	121.9
5°	150.3	149.0	147.8	145.9	144.6	142.6	141.3	139.3	132.2	118.6	107.0
7.5°	160.7	158.1	156.2	152.3	150.3	147.8	145.9	142.6	130.9	110.1	94.0
10°	173.0	168.6	165.3	160.7	156.8	153.6	150.3	145.9	129.6	101.1	82.3
12.5°	188.0	182.8	176.3	171.1	166.0	161.4	156.8	151.0	127.7	93.3	73.2
15°	202.9	195.1	190.5	183.4	176.3	169.8	163.3	158.1	128.4	84.9	65.5
17.5°	219.7	211.9	202.2	194.4	186.7	178.2	170.4	160.1	125.1	78.4	59.6
20°	235.9	224.9	215.8	206.1	195.1	184.7	175.0	166.0	122.5	71.9	54.4
22.5°	253.4	240.5	228.7	216.5	202.9	191.2	179.5	167.9	118.0	66.1	49.9
25°	274.8	259.9	243.1	228.2	213.9	199.6	184.7	170.4	113.4	60.9	46.7
27.5°	300.7	281.3	264.5	245.7	225.6	207.4	191.2	175.6	108.9	57.0	43.4
30°	333.8	311.1	287.2	263.2	241.8	221.0	198.3	178.9	104.4	53.1	40.2
32.5°	377.9	349.3	320.2	292.3	263.8	237.2	213.2	188.0	101.8	49.9	36.9
35°	436.2	399.3	363.6	328.6	294.2	261.9	230.7	202.2	101.8	46.0	33.0
37.5°	491.3	448.5	403.2	359.7	318.9	281.3	244.4	210.0	96.6	42.8	29.8
40°	550.9	499.7	446.6	395.4	346.1	299.4	257.3	217.8	92.0	38.9	26.6
42.5°	642.3	577.5	508.1	448.5	389.5	331.8	279.4	232.7	86.2	35.0	23.3
45°	762.2	679.9	598.2	525.7	450.4	379.8	317.6	259.9	84.9	31.7	20.1
47.5°	890.5	793.3	697.4	604.7	516.6	434.2	359.7	290.3	84.9	28.6	17.5
50°	1018.2	896.4	794.0	686.3	587.2	490.0	401.2	322.1	85.6	26.0	14.2
52.5°	1133.6	1003.3	888.6	764.2	654.6	541.9	445.3	353.2	84.3	22.7	11.6
55°	1293.7	1140.8	1007.8	870.4	742.1	615.1	505.6	399.9	84.9	20.1	9.8
57.5°	1588.6	1409.0	1248.9	1068.8	921.0	757.0	624.2	495.8	92.7	16.8	7.2
60°	2011.8	1778.4	1553.6	1333.9	1145.9	950.8	778.4	627.4	108.9	13.6	5.2
62.5°	2296.3	1991.1	1722.7	1480.3	1261.9	1057.8	869.8	698.1	119.9	11.0	3.3
63°	2325.5	2009.9	1740.2	1490.1	1267.1	1062.9	873.7	703.3	120.6	10.3	3.3
65°	2380.6	2042.2	1750.0	1492.0	1261.9	1055.8	871.1	702.6	121.9	8.5	2.6
67.5°	2317.7	1992.4	1693.6	1436.3	1216.6	1013.7	838.7	676.7	121.2	5.9	2.0
70°	2072.8	1803.1	1540.6	1300.8	1101.2	917.8	763.5	617.0	111.4	3.9	1.3
72.5°	1521.8	1338.4	1134.9	961.9	829.6	688.9	587.8	463.4	86.2	2.6	0.7
75°	451.1	410.9	345.5	304.7	268.9	222.3	197.7	154.2	44.1	1.3	0.0
77.5°	90.0	81.7	73.2	66.8	62.9	53.8	51.2	42.1	18.1	0.7	0.0
80°	47.3	38.9	33.0	29.2	25.3	20.7	17.5	14.2	3.3	0.0	0.0
82.5°	45.4	30.4	22.0	18.1	15.5	12.3	9.8	7.2	2.0	0.0	0.0
85°	16.8	12.9	9.8	7.8	6.5	5.9	4.6	3.9	0.0	0.0	0.0
87.5°	2.6	2.0	2.0	1.3	1.3	0.7	0.7	0.7	0.0	0.0	0.0
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):

	125°	135°	145°	155°	165°	175°	180°
0°	136.7	136.7	136.7	136.7	136.7	136.7	136.7
2.5°	116.0	110.8	108.3	105.0	105.0	104.4	105.7
5°	96.6	89.4	84.3	80.4	81.0	79.1	79.7
7.5°	81.7	74.5	70.0	67.4	66.8	66.1	66.1
10°	70.6	64.2	60.3	58.3	57.7	57.7	57.7
12.5°	62.9	56.4	53.1	51.8	51.8	51.2	51.2
15°	56.4	51.2	48.0	46.7	46.7	46.0	46.7
17.5°	51.2	46.0	43.4	42.1	42.1	41.5	41.5
20°	46.7	42.1	39.5	37.6	37.6	36.9	37.6
22.5°	42.8	38.2	35.0	33.7	33.0	32.4	33.0
25°	38.9	34.3	31.1	29.2	28.6	28.6	27.9
27.5°	35.6	31.1	27.3	25.3	24.7	24.7	24.0
30°	32.4	27.3	23.3	21.4	20.7	20.7	20.7
32.5°	29.2	23.3	20.1	18.1	17.5	17.5	17.5
35°	26.0	20.1	16.8	14.9	14.2	14.2	14.2
37.5°	22.0	16.8	12.9	11.6	11.0	10.3	10.3
40°	18.8	12.9	9.8	8.5	7.2	7.2	7.2
42.5°	15.5	10.3	7.2	5.2	4.6	3.9	4.6
45°	12.9	7.8	4.6	2.6	2.0	2.0	2.0
47.5°	10.3	5.2	2.0	0.7	0.7	0.7	0.7
50°	7.8	3.3	0.7	0.0	0.0	0.7	0.7
52.5°	5.9	2.0	0.0	0.0	0.0	0.0	0.0
55°	3.3	0.7	0.0	0.0	0.0	0.0	0.0
57.5°	2.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)