

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: P180391

Luminaire Tested: **ICM-F04-LED-E1-SL2-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180391
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-F04-LED-E1-SL2-HSS-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4753.6 lumens
Efficiency: N/A
Efficacy: 46.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

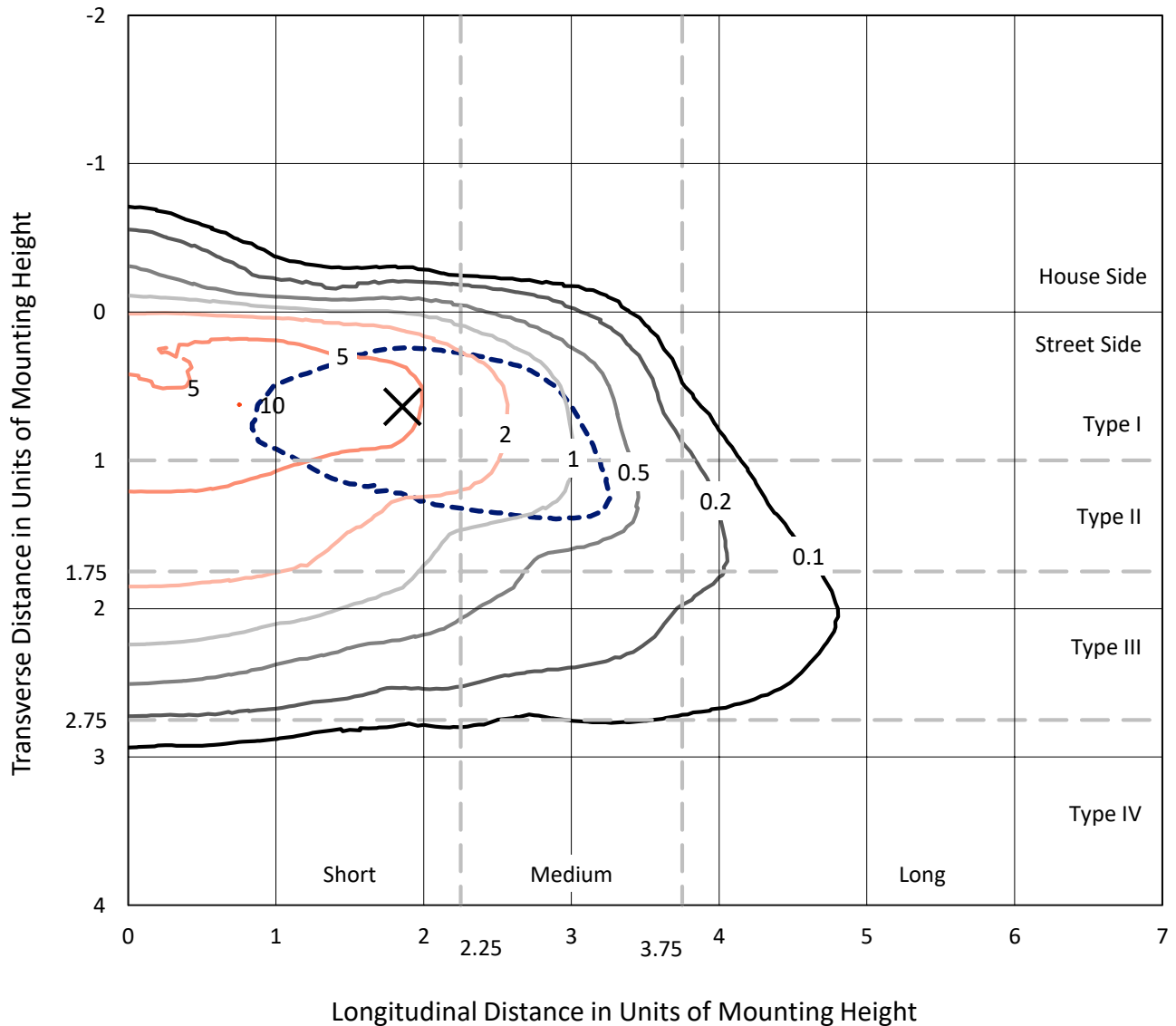
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

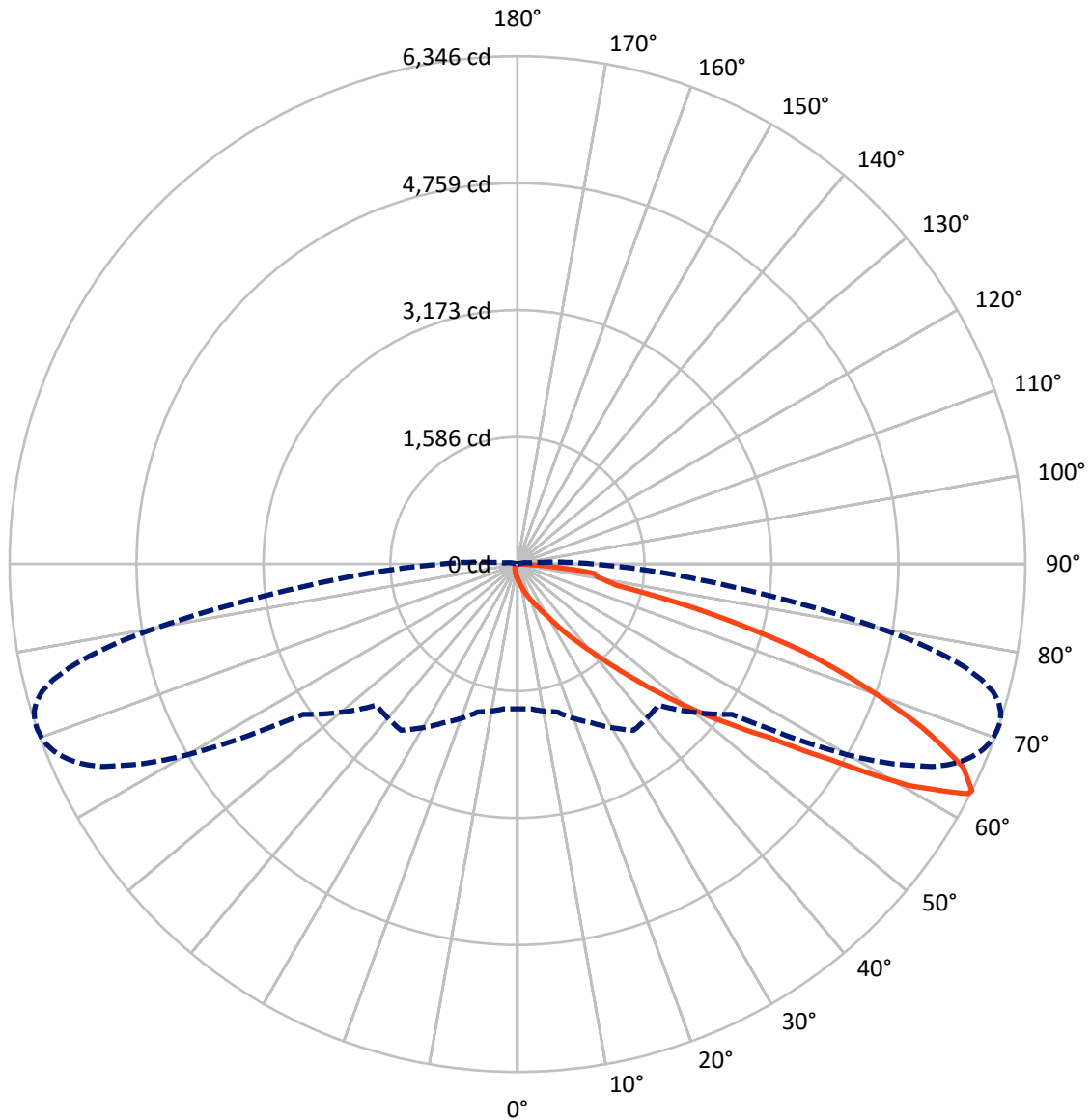
× Max cd
 - - - 1/2 Max cd



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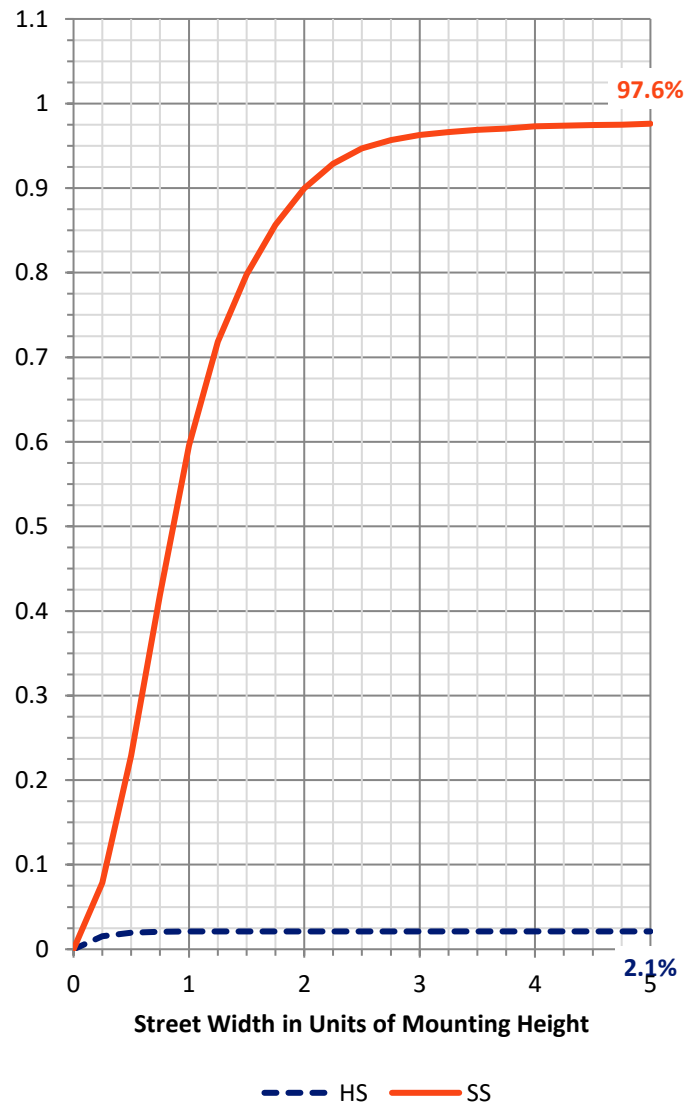
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	100.9	0.0	100.9
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	4652.7	0.0	4652.7
	% Fixture	97.9	0.0	97.9
Total	Lumens	4753.6	0.0	4753.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.2	0.4
10°-20°	78.2	1.6
20°-30°	158.8	3.3
30°-40°	387.9	8.2
40°-50°	867.4	18.2
50°-60°	1219.7	25.7
60°-70°	1434.3	30.2
70°-80°	517.9	10.9
80°-90°	69.3	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°	4753.6	100.0
0°-180°	4753.6	100.0



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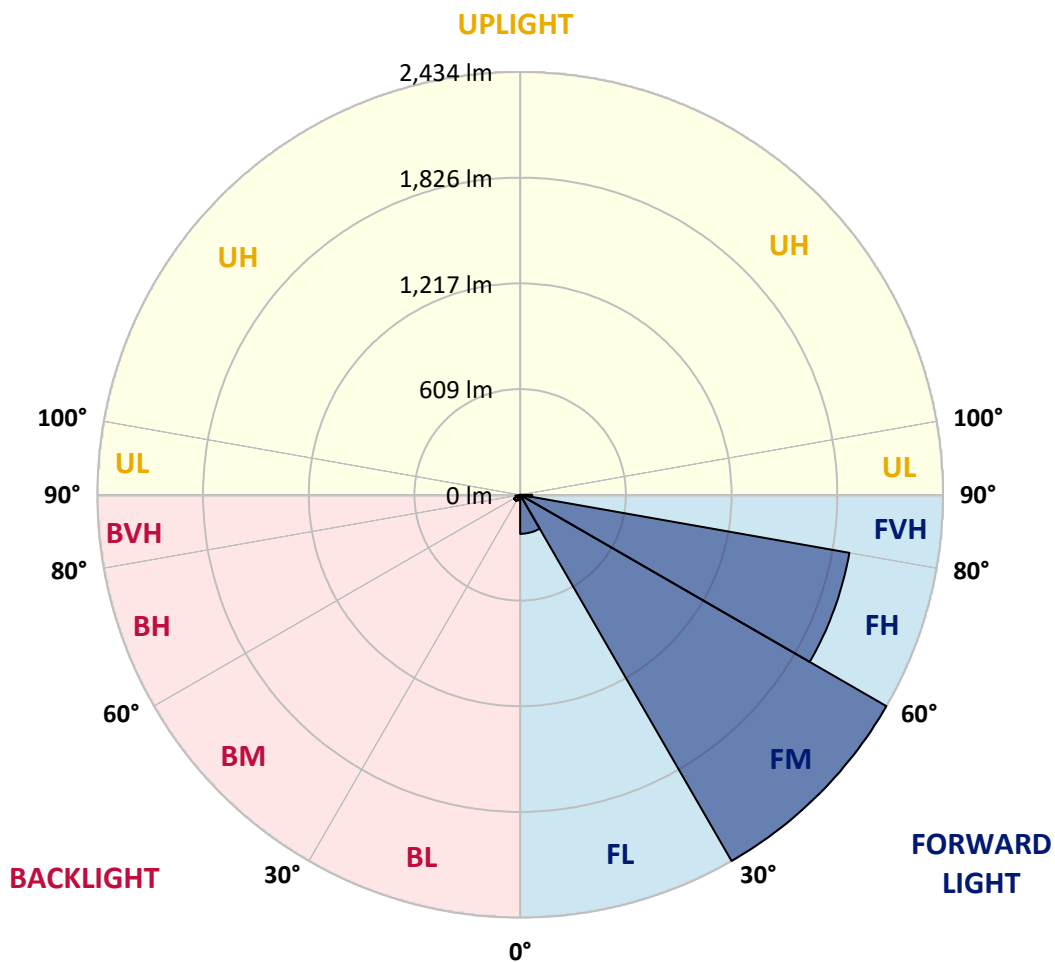
CATALOG NUMBER: ICM-F04-LED-E1-SL2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	224.6	4.7			
FM	(30°-60°)	2434.4	51.2			
FH	(60°-80°)	1924.5	40.5			G2/5000
FVH	(80°-90°)	69.1	1.5			G1/100
BL	(0°-30°)	32.4	0.7	B0/110		
BM	(30°-60°)	40.7	0.9	B0/220		
BH	(60°-80°)	27.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	182.3	182.3	182.3	182.3	182.3	182.3	182.3	182.3	182.3	182.3	182.3
2.5°	238.5	241.1	239.4	235.1	229.9	223.0	216.9	216.9	216.0	213.5	214.3
5°	312.8	313.7	310.2	299.9	290.3	275.6	259.3	257.5	255.8	253.2	252.4
7.5°	385.4	388.8	385.4	374.1	355.2	332.7	306.8	304.2	299.0	299.0	295.5
10°	459.7	459.7	456.3	443.4	426.0	394.0	361.2	356.9	350.9	349.1	343.9
12.5°	512.5	512.5	510.7	503.8	490.0	461.5	421.7	417.4	409.6	407.0	400.9
15°	533.2	533.2	534.0	540.1	540.9	528.0	486.5	483.1	475.3	468.4	465.8
17.5°	546.1	545.3	545.3	554.0	569.5	578.1	551.4	547.9	539.3	535.8	527.2
20°	574.7	572.9	567.7	567.7	582.4	612.7	612.7	611.8	602.3	599.7	595.4
22.5°	617.0	615.3	599.7	586.8	593.7	631.7	667.2	665.4	662.0	658.5	655.9
25°	686.1	680.1	653.3	615.3	609.2	649.9	708.7	712.9	715.5	715.5	717.3
27.5°	790.7	783.0	735.4	664.6	637.8	679.3	754.4	763.1	770.9	772.6	780.4
30°	935.9	922.1	853.8	750.1	688.7	722.4	821.9	831.4	842.6	846.1	858.1
32.5°	1174.4	1166.6	1100.9	945.4	814.1	807.2	916.0	928.1	942.8	948.8	963.5
35°	1537.4	1539.1	1485.5	1345.5	1164.0	1068.9	1084.6	1094.9	1100.1	1118.2	1126.1
37.5°	1783.6	1788.0	1800.1	1744.8	1615.2	1518.3	1396.5	1407.7	1380.9	1383.5	1384.4
40°	1918.4	1932.3	2003.2	2056.8	2046.3	1990.2	1892.6	1898.6	1848.5	1837.2	1782.8
42.5°	2008.4	2026.5	2139.7	2305.6	2390.3	2441.3	2418.8	2416.2	2377.3	2362.6	2316.9
45°	2064.5	2080.9	2223.5	2468.1	2663.4	2812.0	2873.4	2880.3	2847.5	2832.8	2794.7
47.5°	2061.9	2080.9	2233.9	2528.6	2816.3	3054.0	3226.8	3235.5	3255.4	3242.3	3245.0
50°	1947.8	1966.0	2119.8	2425.7	2771.4	3164.6	3480.9	3508.6	3540.5	3562.2	3572.5
52.5°	1809.6	1822.5	1959.1	2249.4	2579.6	3118.8	3631.3	3678.8	3726.3	3766.9	3795.5
55°	1758.6	1773.3	1880.5	2121.5	2425.7	2927.0	3701.2	3771.3	3838.6	3905.2	3959.7
57.5°	1785.4	1799.2	1876.1	2061.0	2334.2	2724.8	3721.1	3830.0	3940.7	4048.7	4155.8
60°	1883.9	1898.6	1964.3	2117.2	2310.0	2608.1	3643.4	3823.9	4008.0	4196.4	4373.6
62.5°	1845.0	1851.1	1947.8	2215.7	2482.8	2508.7	3360.8	3613.1	3894.0	4184.3	4470.4
63°	1807.8	1814.8	1913.3	2188.9	2535.5	2494.0	3273.5	3539.6	3836.0	4148.9	4460.0
65°	1639.4	1640.2	1715.4	1933.1	2476.8	2519.9	2884.6	3138.7	3479.2	3854.3	4247.4
67.5°	1223.6	1217.6	1290.2	1456.1	1944.4	2520.8	2475.8	2618.4	2855.3	3187.9	3540.5
70°	433.8	424.3	541.9	771.7	1211.5	2061.9	2127.6	2137.1	2202.8	2382.5	2603.7
72.5°	140.8	143.4	172.8	282.6	558.2	1387.8	1926.2	1896.8	1879.5	1878.7	1908.1
75°	56.2	57.0	69.1	125.3	250.6	668.8	1686.9	1703.3	1709.3	1718.0	1727.5
77.5°	26.8	29.4	38.9	70.0	124.5	331.0	1207.3	1346.4	1425.9	1487.3	1524.4
80°	9.5	11.3	21.6	43.2	57.9	152.1	636.0	767.4	884.0	1034.4	1164.0
82.5°	0.0	0.0	4.3	30.2	32.0	61.4	261.0	306.0	350.0	453.7	582.4
85°	0.0	0.0	0.0	8.7	9.5	10.3	88.2	106.3	119.3	139.2	160.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.6	5.2	12.9	19.9
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°	182.3	182.3	182.3	182.3	182.3	182.3	182.3	182.3	182.3	182.3	182.3
2.5°	212.6	211.7	211.7	210.0	209.1	207.4	206.5	203.9	203.1	203.1	203.1
5°	251.4	248.0	246.3	242.0	239.4	238.5	234.2	232.5	229.9	230.7	226.4
7.5°	294.7	288.7	286.0	280.0	278.2	272.2	270.5	266.1	263.5	258.4	256.7
10°	342.2	334.4	330.1	320.7	318.0	313.7	308.5	303.4	299.0	293.9	291.3
12.5°	396.7	389.8	386.3	373.3	367.3	361.2	354.3	347.4	340.5	336.2	330.1
15°	460.6	449.4	446.0	433.8	423.4	415.6	406.1	397.5	392.4	383.7	377.7
17.5°	523.7	512.5	509.9	491.7	480.5	475.3	464.9	453.7	444.2	435.5	426.0
20°	586.8	579.0	572.1	554.8	542.7	534.0	520.2	509.0	501.2	489.1	477.0
22.5°	649.9	642.1	636.9	618.8	607.5	595.4	583.4	571.3	560.0	545.3	531.4
25°	714.7	709.5	706.9	690.5	680.1	668.8	656.7	643.0	629.1	612.7	598.1
27.5°	782.1	783.8	778.6	775.2	763.9	756.2	737.1	727.6	717.3	697.4	679.3
30°	867.6	872.8	871.1	873.7	866.8	861.6	846.9	834.8	822.7	803.7	783.0
32.5°	975.6	982.6	986.1	995.5	992.1	990.3	986.1	968.8	960.1	927.3	918.6
35°	1142.4	1139.0	1153.7	1161.5	1158.0	1156.3	1151.1	1141.6	1131.2	1107.9	1086.2
37.5°	1359.4	1362.8	1368.0	1352.5	1342.1	1341.2	1325.7	1316.1	1301.4	1275.5	1249.6
40°	1756.8	1735.3	1711.1	1645.4	1616.8	1600.5	1554.6	1541.7	1516.7	1481.2	1454.4
42.5°	2273.6	2252.0	2179.5	2069.7	2010.9	1929.7	1892.6	1846.7	1811.3	1753.4	1722.3
45°	2787.0	2724.8	2716.1	2588.2	2515.6	2408.5	2341.9	2265.0	2184.7	2108.6	2053.3
47.5°	3219.9	3206.1	3163.7	3086.0	3018.5	2928.7	2843.1	2724.8	2641.8	2533.8	2434.3
50°	3566.4	3565.6	3550.1	3505.0	3449.0	3376.3	3301.1	3200.9	3106.7	2974.5	2868.2
52.5°	3825.7	3839.6	3844.7	3830.9	3809.2	3745.3	3707.3	3623.5	3543.9	3431.6	3316.7
55°	4015.8	4066.8	4092.8	4122.1	4116.0	4093.6	4091.8	4037.4	4001.1	3912.1	3830.9
57.5°	4250.9	4334.7	4415.1	4557.6	4562.8	4613.0	4638.9	4664.8	4671.7	4636.3	4609.5
60°	4549.9	4721.0	4873.1	5171.2	5249.0	5371.7	5451.2	5537.6	5611.1	5617.2	5615.4
62.5°	4760.8	5024.3	5269.7	5712.2	5863.4	6005.2	6111.5	6195.3	6246.3	6298.1	6322.3
63°	4766.8	5055.4	5316.4	5772.7	5931.7	6066.5	6167.6	6245.3	6298.9	6330.1	6345.6
65°	4620.8	4970.7	5281.8	5736.4	5885.9	6021.5	6074.3	6125.2	6151.2	6163.3	6117.5
67.5°	3916.4	4258.6	4621.6	5129.7	5257.6	5420.1	5463.3	5489.2	5501.3	5498.7	5459.8
70°	2928.7	3215.6	3619.2	4199.8	4369.2	4528.3	4626.8	4669.1	4682.9	4678.6	4620.8
72.5°	2044.7	2213.1	2545.9	3192.3	3423.0	3626.9	3748.8	3811.8	3824.9	3798.9	3745.3
75°	1717.1	1725.8	1800.9	2154.3	2370.4	2588.2	2725.6	2765.3	2739.5	2660.8	2524.3
77.5°	1533.0	1552.0	1552.0	1604.8	1647.1	1707.6	1720.6	1623.8	1511.5	1366.2	1248.8
80°	1285.9	1352.5	1399.1	1438.0	1442.3	1430.2	1398.2	1343.8	1257.4	1146.8	1024.0
82.5°	781.2	912.6	966.1	1166.6	1265.1	1331.7	1326.5	1254.0	1188.2	1073.3	968.8
85°	197.0	212.6	230.7	299.9	336.2	410.5	457.1	478.8	486.5	446.8	404.5
87.5°	19.0	12.9	21.6	16.5	23.3	17.3	23.3	21.6	26.8	28.6	31.1
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	182.3	182.3	182.3	182.3	182.3	182.3	182.3	182.3	182.3	182.3	182.3
2.5°	201.4	200.5	199.6	198.8	197.9	197.0	195.3	195.3	193.6	192.7	191.8
5°	223.8	222.0	221.2	219.5	216.9	215.2	212.6	209.1	206.5	205.7	203.9
7.5°	252.4	248.0	246.3	243.7	240.3	235.1	231.6	229.0	224.7	222.0	216.9
10°	284.3	280.0	274.8	269.6	264.5	258.4	254.0	250.6	243.7	240.3	234.2
12.5°	324.9	317.1	311.1	304.2	297.3	290.3	285.2	274.8	268.7	261.0	255.8
15°	366.4	359.5	352.6	343.9	333.6	322.3	317.1	307.6	299.9	287.8	280.8
17.5°	416.6	403.5	393.2	382.8	373.3	363.0	352.6	337.9	326.7	316.3	302.4
20°	465.8	450.2	439.0	425.2	411.4	394.9	382.8	372.5	356.9	343.1	328.4
22.5°	518.5	503.0	484.8	471.0	452.0	439.0	422.6	405.3	389.8	371.6	353.5
25°	582.4	566.0	545.3	527.2	505.6	487.4	467.5	447.6	428.7	407.9	384.6
27.5°	661.1	643.8	621.3	599.7	571.3	548.7	529.8	503.0	478.8	452.8	426.0
30°	760.5	741.5	713.8	682.7	654.1	629.1	602.3	566.9	540.1	509.0	474.4
32.5°	890.1	867.6	830.5	801.1	765.7	732.8	695.6	660.2	622.2	581.6	541.9
35°	1053.4	1032.7	989.5	946.2	907.4	868.5	821.9	781.2	727.6	678.3	627.4
37.5°	1222.8	1185.7	1145.9	1099.3	1050.8	1004.2	947.2	891.0	829.6	776.0	712.1
40°	1416.4	1371.5	1338.6	1288.5	1220.2	1153.7	1100.9	1031.0	954.1	882.3	807.2
42.5°	1681.7	1631.5	1572.8	1496.8	1447.5	1369.7	1301.4	1218.5	1117.4	1037.0	946.2
45°	1988.5	1920.2	1863.2	1789.7	1730.1	1633.3	1553.8	1443.2	1342.1	1236.7	1126.1
47.5°	2338.4	2253.8	2170.8	2098.2	2003.2	1908.1	1807.0	1689.5	1559.8	1444.0	1312.7
50°	2740.3	2620.2	2505.2	2411.9	2281.4	2171.6	2061.9	1929.7	1786.2	1653.1	1503.6
52.5°	3187.1	3047.9	2895.8	2752.4	2601.1	2460.3	2328.1	2176.0	2016.1	1853.7	1686.9
55°	3726.3	3621.8	3442.9	3260.5	3058.3	2869.9	2699.6	2511.3	2316.9	2103.4	1928.0
57.5°	4570.6	4519.7	4370.2	4187.7	3924.2	3695.2	3406.5	3175.8	2894.2	2600.3	2373.9
60°	5714.7	5651.7	5567.8	5420.1	5211.0	4899.8	4581.9	4223.2	3794.6	3387.6	3001.3
62.5°	6324.9	6302.5	6234.2	6132.1	5936.9	5691.5	5370.8	4976.8	4492.9	3998.5	3506.0
63°	6343.0	6314.6	6255.8	6152.0	5980.0	5742.5	5427.8	5045.1	4571.5	4067.7	3564.7
65°	6097.6	6086.4	6026.7	5913.5	5796.0	5614.5	5370.8	5041.6	4644.0	4167.9	3667.6
67.5°	5408.0	5374.3	5282.7	5248.1	5166.0	5039.8	4854.1	4627.7	4343.4	3969.1	3537.0
70°	4574.1	4523.9	4409.1	4347.7	4247.4	4167.9	4054.7	3893.1	3717.7	3456.7	3134.3
72.5°	3690.0	3586.3	3480.9	3321.0	3181.0	3039.3	2914.0	2799.9	2607.2	2501.8	2257.2
75°	2396.4	2207.9	2027.4	1785.4	1567.6	1374.9	1187.4	1092.3	894.4	814.1	699.1
77.5°	1137.2	1031.8	890.1	780.4	640.4	522.8	426.9	320.7	251.4	197.0	150.3
80°	917.8	828.7	743.2	643.8	538.4	429.5	329.2	246.3	174.6	121.0	85.6
82.5°	818.3	721.6	616.2	547.9	476.2	389.8	319.7	261.0	192.7	140.8	95.9
85°	318.0	267.9	206.5	168.6	131.3	108.0	97.7	67.4	52.7	41.5	32.0
87.5°	27.6	22.5	18.1	12.1	12.9	6.9	7.8	5.2	4.3	4.3	3.4
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	182.3	182.3	182.3	182.3	182.3	182.3	182.3	182.3	182.3	182.3	182.3
2.5°	191.0	190.1	189.2	187.5	187.5	185.8	184.9	184.1	179.7	170.2	162.4
5°	200.5	198.8	197.0	194.4	192.7	190.1	188.4	185.8	176.3	158.1	142.6
7.5°	214.3	210.9	208.3	203.1	200.5	197.0	194.4	190.1	174.6	146.9	125.3
10°	230.7	224.7	220.4	214.3	209.1	204.8	200.5	194.4	172.8	134.8	109.8
12.5°	250.6	243.7	235.1	228.2	221.2	215.2	209.1	201.4	170.2	124.5	97.7
15°	270.5	260.1	254.0	244.6	235.1	226.4	217.8	210.9	171.1	113.2	87.3
17.5°	292.9	282.6	269.6	259.3	248.8	237.7	227.3	213.5	166.8	104.6	79.5
20°	314.5	299.9	287.8	274.8	260.1	246.3	233.3	221.2	163.3	95.9	72.6
22.5°	337.9	320.7	305.0	288.7	270.5	254.9	239.4	223.8	157.3	88.2	66.5
25°	366.4	346.5	324.1	304.2	285.2	266.1	246.3	227.3	151.3	81.2	62.2
27.5°	400.9	375.1	352.6	327.5	300.7	276.6	254.9	234.2	145.2	76.1	57.9
30°	445.0	414.8	382.8	350.9	322.3	294.7	264.5	238.5	139.2	70.9	53.6
32.5°	503.8	465.8	426.9	389.8	351.7	316.3	284.3	250.6	135.6	66.5	49.3
35°	581.6	532.4	484.8	438.1	392.4	349.1	307.6	269.6	135.6	61.4	44.1
37.5°	655.1	598.1	537.5	479.6	425.2	375.1	325.8	280.0	128.7	57.0	39.7
40°	734.5	666.2	595.4	527.2	461.5	399.3	343.1	290.3	122.7	51.8	35.4
42.5°	856.4	770.0	677.5	598.1	519.4	442.4	372.5	310.2	115.0	46.7	31.1
45°	1016.3	906.5	797.6	700.8	600.6	506.4	423.4	346.5	113.2	42.3	26.8
47.5°	1187.4	1057.8	929.9	806.2	688.7	579.0	479.6	387.2	113.2	38.0	23.3
50°	1357.6	1195.2	1058.6	915.2	783.0	653.3	534.9	429.5	114.0	34.6	19.0
52.5°	1511.5	1337.8	1184.8	1018.9	872.8	722.4	593.7	471.0	112.4	30.2	15.5
55°	1724.8	1520.9	1343.8	1160.6	989.5	820.1	674.1	533.2	113.2	26.8	12.9
57.5°	2118.1	1878.7	1665.2	1425.0	1228.0	1009.3	832.2	661.1	123.5	22.5	9.5
60°	2682.4	2371.3	2071.5	1778.4	1527.8	1267.7	1037.9	836.6	145.2	18.1	6.9
62.5°	3061.8	2654.7	2296.9	1973.8	1682.5	1410.3	1159.7	930.7	159.9	14.7	4.3
63°	3100.7	2679.8	2320.3	1986.7	1689.5	1417.2	1164.9	937.6	160.7	13.9	4.3
65°	3174.1	2723.0	2333.2	1989.3	1682.5	1407.7	1161.5	936.7	162.4	11.3	3.4
67.5°	3090.3	2656.5	2258.1	1915.0	1622.1	1351.5	1118.2	902.2	161.6	7.8	2.6
70°	2763.6	2404.1	2054.2	1734.4	1468.2	1223.6	1018.0	822.7	148.7	5.2	1.8
72.5°	2029.0	1784.5	1513.1	1282.4	1106.1	918.6	783.8	617.9	115.0	3.4	0.8
75°	601.5	547.9	460.6	406.1	358.6	296.4	263.5	205.7	58.8	1.8	0.0
77.5°	120.1	108.9	97.7	89.0	83.8	71.7	68.3	56.2	24.2	0.8	0.0
80°	63.1	51.8	44.1	38.9	33.7	27.6	23.3	19.0	4.3	0.0	0.0
82.5°	60.5	40.7	29.4	24.2	20.7	16.5	12.9	9.5	2.6	0.0	0.0
85°	22.5	17.3	12.9	10.3	8.7	7.8	6.0	5.2	0.0	0.0	0.0
87.5°	3.4	2.6	2.6	1.8	1.8	0.8	0.8	0.8	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°	182.3	182.3	182.3	182.3	182.3	182.3	182.3
2.5°	154.7	147.8	144.3	140.0	140.0	139.2	140.8
5°	128.7	119.3	112.4	107.2	108.0	105.4	106.3
7.5°	108.9	99.3	93.3	89.9	89.0	88.2	88.2
10°	94.2	85.6	80.4	77.8	76.9	76.9	76.9
12.5°	83.8	75.2	70.9	69.1	69.1	68.3	68.3
15°	75.2	68.3	63.9	62.2	62.2	61.4	62.2
17.5°	68.3	61.4	57.9	56.2	56.2	55.3	55.3
20°	62.2	56.2	52.7	50.1	50.1	49.3	50.1
22.5°	57.0	51.0	46.7	44.9	44.1	43.2	44.1
25°	51.8	45.8	41.5	38.9	38.0	38.0	37.1
27.5°	47.5	41.5	36.3	33.7	32.8	32.8	32.0
30°	43.2	36.3	31.1	28.6	27.6	27.6	27.6
32.5°	38.9	31.1	26.8	24.2	23.3	23.3	23.3
35°	34.6	26.8	22.5	19.9	19.0	19.0	19.0
37.5°	29.4	22.5	17.3	15.5	14.7	13.9	13.9
40°	25.0	17.3	12.9	11.3	9.5	9.5	9.5
42.5°	20.7	13.9	9.5	6.9	6.0	5.2	6.0
45°	17.3	10.3	6.0	3.4	2.6	2.6	2.6
47.5°	13.9	6.9	2.6	0.8	0.8	0.8	0.8
50°	10.3	4.3	0.8	0.0	0.0	0.8	0.8
52.5°	7.8	2.6	0.0	0.0	0.0	0.0	0.0
55°	4.3	0.8	0.0	0.0	0.0	0.0	0.0
57.5°	2.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.8	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)