

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: P180448

Luminaire Tested: **ICS-E04-LED-E1-SL2-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180448
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: ICS-E04-LED-E1-SL2-HSS
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6601.2 lumens
Efficiency: N/A
Efficacy: 67.9 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

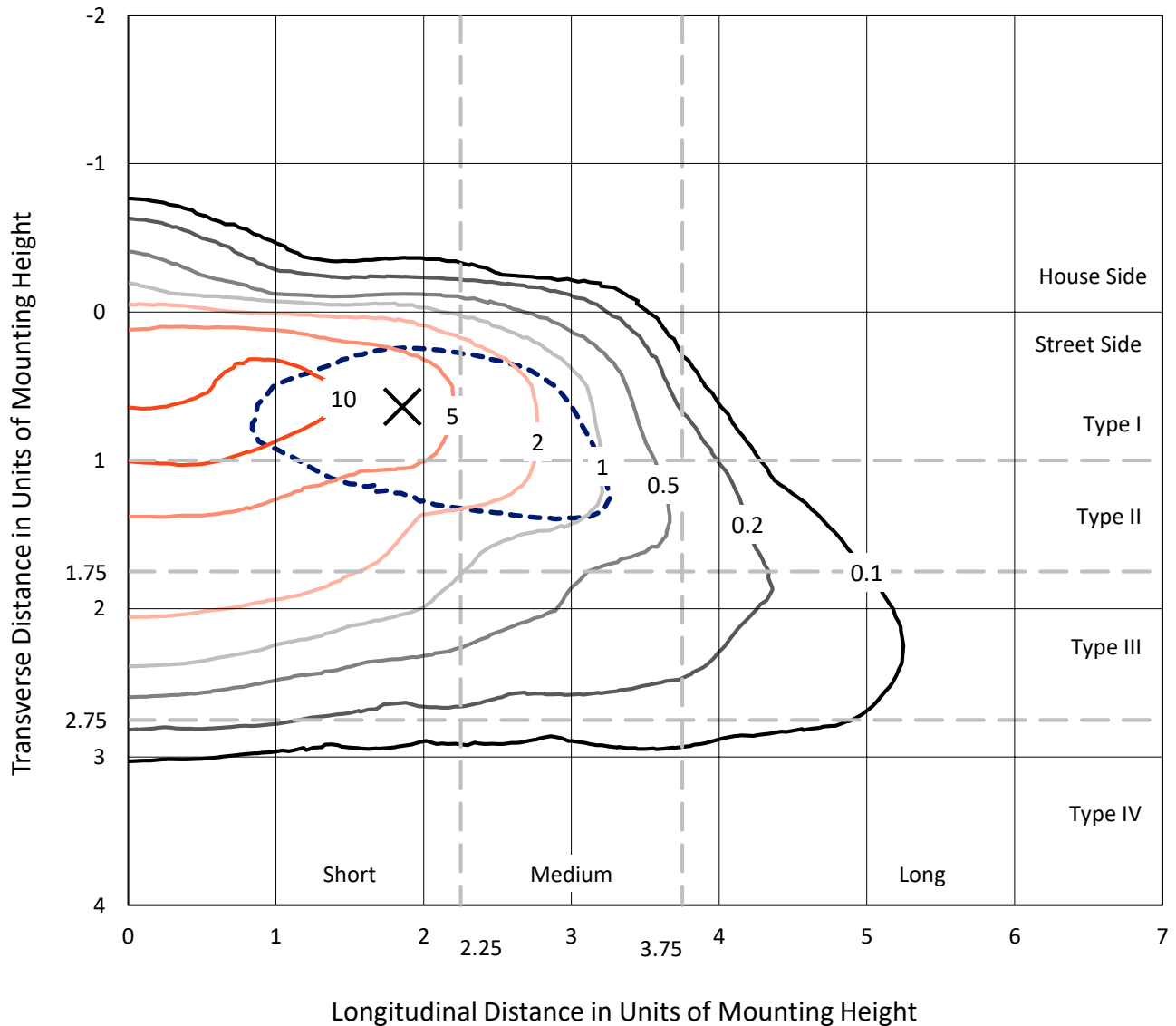
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

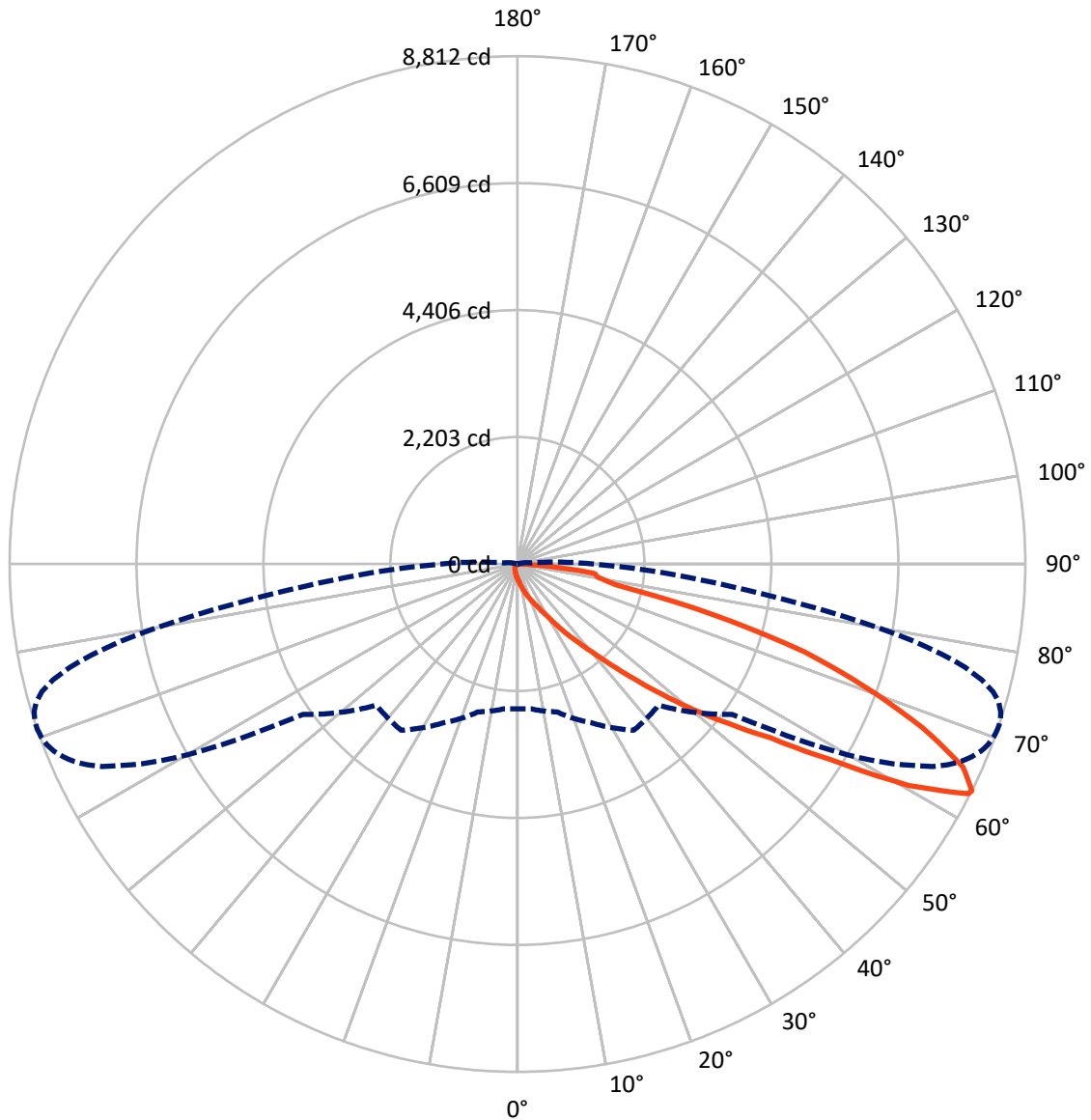
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.9 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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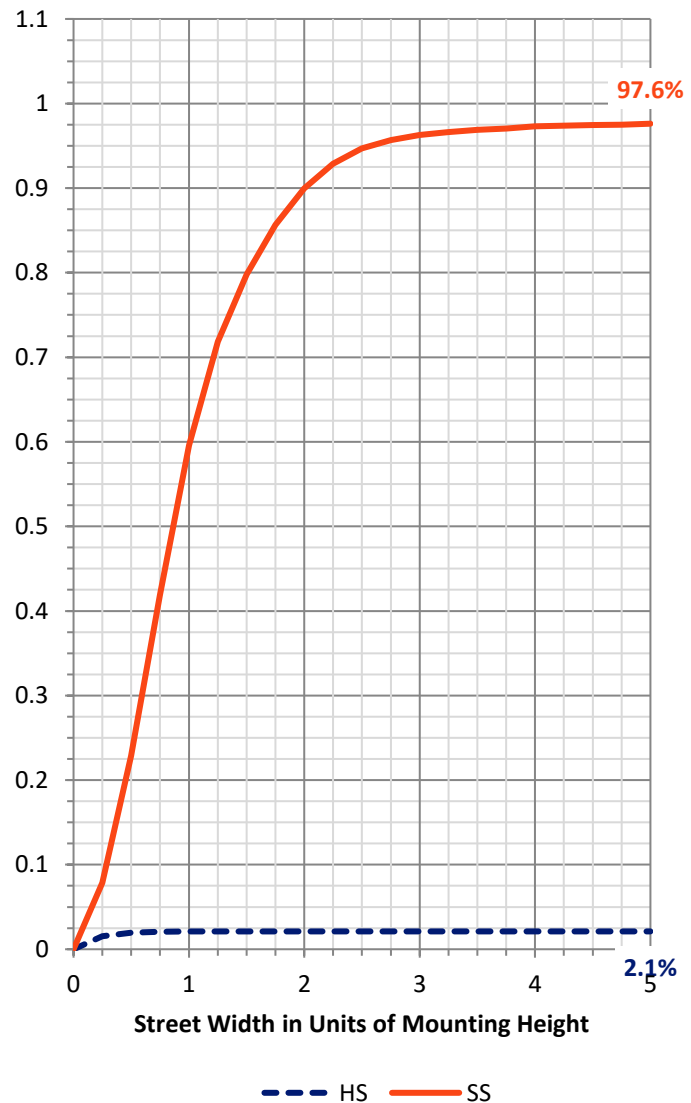
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	140.2	0.0	140.2
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	6461.1	0.0	6461.1
	% Fixture	97.9	0.0	97.9
Total	Lumens	6601.2	0.0	6601.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.0	0.4
10°-20°	108.5	1.6
20°-30°	220.5	3.3
30°-40°	538.6	8.2
40°-50°	1204.6	18.2
50°-60°	1693.8	25.7
60°-70°	1991.8	30.2
70°-80°	719.2	10.9
80°-90°	96.2	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°	6601.2	100.0
0°-180°	6601.2	100.0



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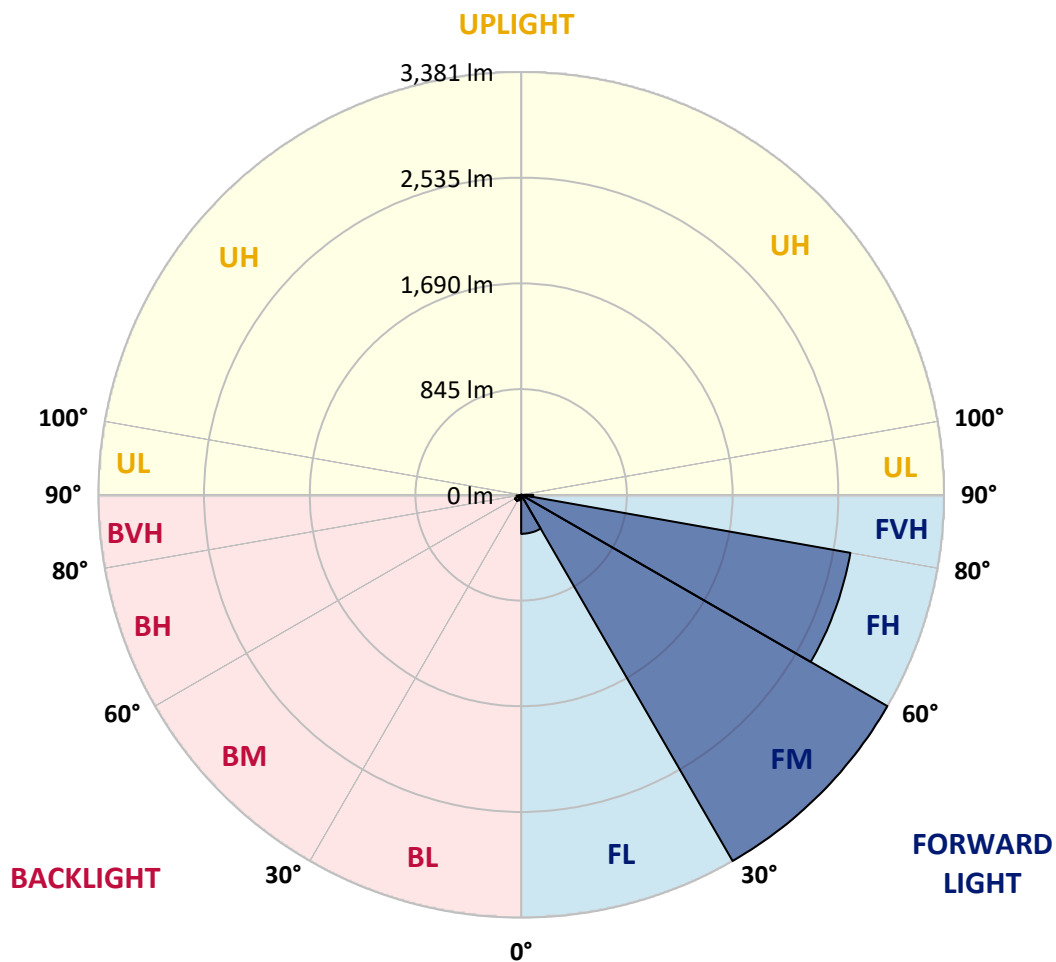
CATALOG NUMBER: ICS-E04-LED-E1-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	311.9	4.7			
FM (30°-60°)	3380.6	51.2			
FH (60°-80°)	2672.6	40.5			G2/5000
FVH (80°-90°)	96.0	1.5			G1/100
BL (0°-30°)	45.1	0.7	B0/110		
BM (30°-60°)	56.5	0.9	B0/220		
BH (60°-80°)	38.4	0.6	B0/110		G0/110
BVH (80°-90°)	0.2	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°	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2
2.5°	331.2	334.8	332.4	326.4	319.2	309.6	301.2	301.2	300.0	296.4	297.6
5°	434.4	435.6	430.8	416.4	403.2	382.8	360.0	357.6	355.2	351.6	350.4
7.5°	535.2	540.0	535.2	519.6	493.2	462.0	426.0	422.4	415.2	415.2	410.4
10°	638.4	638.4	633.6	615.6	591.6	547.2	501.6	495.6	487.2	484.8	477.6
12.5°	711.6	711.6	709.2	699.6	680.4	640.8	585.6	579.6	568.8	565.2	556.8
15°	740.4	740.4	741.6	750.0	751.2	733.2	675.6	670.8	660.0	650.4	646.8
17.5°	758.4	757.2	757.2	769.2	790.8	802.8	765.6	760.8	748.8	744.0	732.0
20°	798.0	795.6	788.4	788.4	808.8	850.8	850.8	849.6	836.4	832.8	826.8
22.5°	856.8	854.4	832.8	814.8	824.4	877.2	926.5	924.1	919.2	914.4	910.8
25°	952.9	944.5	907.2	854.4	846.0	902.4	984.1	990.1	993.7	993.7	996.1
27.5°	1098.1	1087.3	1021.3	922.9	885.6	943.3	1047.7	1059.7	1070.5	1072.9	1083.7
30°	1299.7	1280.5	1185.7	1041.7	956.5	1003.3	1141.3	1154.5	1170.1	1174.9	1191.7
32.5°	1630.9	1620.1	1528.9	1312.9	1130.5	1120.9	1272.1	1288.9	1309.3	1317.7	1338.1
35°	2134.9	2137.3	2062.9	1868.5	1616.5	1484.5	1506.1	1520.5	1527.7	1552.9	1563.7
37.5°	2476.9	2482.9	2499.7	2422.9	2242.9	2108.5	1939.3	1954.9	1917.7	1921.3	1922.5
40°	2664.1	2683.3	2781.8	2856.2	2841.8	2763.8	2628.1	2636.5	2566.9	2551.3	2475.7
42.5°	2789.0	2814.2	2971.4	3201.8	3319.4	3390.2	3359.0	3355.4	3301.4	3281.0	3217.4
45°	2867.0	2889.8	3087.8	3427.4	3698.6	3905.0	3990.2	3999.8	3954.2	3933.8	3881.0
47.5°	2863.4	2889.8	3102.2	3511.4	3911.0	4241.0	4481.0	4493.0	4520.6	4502.6	4506.2
50°	2704.9	2730.1	2943.8	3368.6	3848.6	4394.6	4833.9	4872.3	4916.7	4946.7	4961.1
52.5°	2512.9	2530.9	2720.5	3123.8	3582.2	4331.0	5042.7	5108.7	5174.7	5231.1	5270.7
55°	2442.1	2462.5	2611.3	2946.2	3368.6	4064.6	5139.9	5237.1	5330.7	5423.1	5498.7
57.5°	2479.3	2498.5	2605.3	2862.2	3241.4	3783.8	5167.5	5318.7	5472.3	5622.3	5771.1
60°	2616.1	2636.5	2727.7	2940.2	3207.8	3621.8	5059.5	5310.3	5565.9	5827.5	6073.5
62.5°	2562.1	2570.5	2704.9	3077.0	3447.8	3483.8	4667.1	5017.5	5407.5	5810.7	6207.9
63°	2510.5	2520.1	2656.9	3039.8	3521.0	3463.4	4545.8	4915.5	5327.1	5761.5	6193.5
65°	2276.5	2277.7	2382.1	2684.5	3439.4	3499.4	4005.8	4358.6	4831.5	5352.3	5898.3
67.5°	1699.3	1690.9	1791.7	2022.1	2700.1	3500.6	3438.2	3636.2	3965.0	4427.0	4916.7
70°	602.4	589.2	752.4	1071.7	1682.5	2863.4	2954.6	2967.8	3059.0	3308.6	3615.8
72.5°	195.6	199.2	240.0	392.4	775.2	1927.3	2674.9	2634.1	2610.1	2608.9	2649.7
75°	78.0	79.2	96.0	174.0	348.0	928.9	2342.5	2365.3	2373.7	2385.7	2398.9
77.5°	37.2	40.8	54.0	97.2	172.8	459.6	1676.5	1869.7	1980.1	2065.3	2116.9
80°	13.2	15.6	30.0	60.0	80.4	211.2	883.2	1065.7	1227.7	1436.5	1616.5
82.5°	0.0	0.0	6.0	42.0	44.4	85.2	362.4	424.8	486.0	630.0	808.8
85°	0.0	0.0	0.0	12.0	13.2	14.4	122.4	147.6	165.6	193.2	223.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.6	7.2	18.0	27.6
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2
2.5°	295.2	294.0	294.0	291.6	290.4	288.0	286.8	283.2	282.0	282.0	282.0
5°	349.2	344.4	342.0	336.0	332.4	331.2	325.2	322.8	319.2	320.4	314.4
7.5°	409.2	400.8	397.2	388.8	386.4	378.0	375.6	369.6	366.0	358.8	356.4
10°	475.2	464.4	458.4	445.2	441.6	435.6	428.4	421.2	415.2	408.0	404.4
12.5°	550.8	541.2	536.4	518.4	510.0	501.6	492.0	482.4	472.8	466.8	458.4
15°	639.6	624.0	619.2	602.4	588.0	577.2	564.0	552.0	544.8	532.8	524.4
17.5°	727.2	711.6	708.0	682.8	667.2	660.0	645.6	630.0	616.8	604.8	591.6
20°	814.8	804.0	794.4	770.4	753.6	741.6	722.4	706.8	696.0	679.2	662.4
22.5°	902.4	891.6	884.4	859.2	843.6	826.8	810.0	793.2	777.6	757.2	738.0
25°	992.5	985.3	981.7	958.9	944.5	928.9	912.0	892.8	873.6	850.8	830.4
27.5°	1086.1	1088.5	1081.3	1076.5	1060.9	1050.1	1023.7	1010.5	996.1	968.5	943.3
30°	1204.9	1212.1	1209.7	1213.3	1203.7	1196.5	1176.1	1159.3	1142.5	1116.1	1087.3
32.5°	1354.9	1364.5	1369.3	1382.5	1377.7	1375.3	1369.3	1345.3	1333.3	1287.7	1275.7
35°	1586.5	1581.7	1602.1	1612.9	1608.1	1605.7	1598.5	1585.3	1570.9	1538.5	1508.5
37.5°	1887.7	1892.5	1899.7	1878.1	1863.7	1862.5	1840.9	1827.7	1807.3	1771.3	1735.3
40°	2439.7	2409.7	2376.1	2284.9	2245.3	2222.5	2158.9	2140.9	2106.1	2056.9	2019.7
42.5°	3157.4	3127.4	3026.6	2874.2	2792.6	2679.7	2628.1	2564.5	2515.3	2434.9	2391.7
45°	3870.2	3783.8	3771.8	3594.2	3493.4	3344.6	3252.2	3145.4	3033.8	2928.2	2851.4
47.5°	4471.4	4452.2	4393.4	4285.4	4191.8	4067.0	3948.2	3783.8	3668.6	3518.6	3380.6
50°	4952.7	4951.5	4929.9	4867.5	4789.5	4688.7	4584.2	4445.0	4314.2	4130.6	3983.0
52.5°	5312.7	5331.9	5339.1	5319.9	5289.9	5201.1	5148.3	5031.9	4921.5	4765.5	4605.9
55°	5576.7	5647.5	5683.5	5724.3	5715.9	5684.7	5682.3	5606.7	5556.3	5432.7	5319.9
57.5°	5903.1	6019.5	6131.1	6329.1	6336.3	6405.9	6442.0	6478.0	6487.6	6438.4	6401.1
60°	6318.3	6556.0	6767.2	7181.2	7289.2	7459.6	7570.0	7690.0	7792.0	7800.4	7798.0
62.5°	6611.2	6977.2	7318.0	7932.4	8142.4	8339.3	8486.9	8603.3	8674.1	8746.1	8779.7
63°	6619.6	7020.4	7382.8	8016.4	8237.2	8424.5	8564.9	8672.9	8747.3	8790.5	8812.1
65°	6416.7	6902.8	7334.8	7966.0	8173.6	8362.1	8435.3	8506.1	8542.1	8558.9	8495.3
67.5°	5438.7	5913.9	6417.9	7123.6	7301.2	7526.8	7586.8	7622.8	7639.6	7636.0	7582.0
70°	4067.0	4465.4	5025.9	5832.3	6067.5	6288.3	6425.1	6484.0	6503.2	6497.2	6416.7
72.5°	2839.4	3073.4	3535.4	4433.0	4753.5	5036.7	5205.9	5293.5	5311.5	5275.5	5201.1
75°	2384.5	2396.5	2500.9	2991.8	3291.8	3594.2	3785.0	3840.2	3804.2	3695.0	3505.4
77.5°	2128.9	2155.3	2155.3	2228.5	2287.3	2371.3	2389.3	2254.9	2098.9	1897.3	1734.1
80°	1785.7	1878.1	1942.9	1996.9	2002.9	1986.1	1941.7	1866.1	1746.1	1592.5	1422.1
82.5°	1084.9	1267.3	1341.7	1620.1	1756.9	1849.3	1842.1	1741.3	1650.1	1490.5	1345.3
85°	273.6	295.2	320.4	416.4	466.8	570.0	634.8	664.8	675.6	620.4	561.6
87.5°	26.4	18.0	30.0	22.8	32.4	24.0	32.4	30.0	37.2	39.6	43.2
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°	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2
2.5°	279.6	278.4	277.2	276.0	274.8	273.6	271.2	271.2	268.8	267.6	266.4
5°	310.8	308.4	307.2	304.8	301.2	298.8	295.2	290.4	286.8	285.6	283.2
7.5°	350.4	344.4	342.0	338.4	333.6	326.4	321.6	318.0	312.0	308.4	301.2
10°	394.8	388.8	381.6	374.4	367.2	358.8	352.8	348.0	338.4	333.6	325.2
12.5°	451.2	440.4	432.0	422.4	412.8	403.2	396.0	381.6	373.2	362.4	355.2
15°	508.8	499.2	489.6	477.6	463.2	447.6	440.4	427.2	416.4	399.6	390.0
17.5°	578.4	560.4	546.0	531.6	518.4	504.0	489.6	469.2	453.6	439.2	420.0
20°	646.8	625.2	609.6	590.4	571.2	548.4	531.6	517.2	495.6	476.4	456.0
22.5°	720.0	698.4	673.2	654.0	627.6	609.6	586.8	562.8	541.2	516.0	490.8
25°	808.8	786.0	757.2	732.0	702.0	676.8	649.2	621.6	595.2	566.4	534.0
27.5°	918.0	894.0	862.8	832.8	793.2	762.0	735.6	698.4	664.8	628.8	591.6
30°	1056.1	1029.7	991.3	948.1	908.4	873.6	836.4	787.2	750.0	706.8	658.8
32.5°	1236.1	1204.9	1153.3	1112.5	1063.3	1017.7	966.1	916.8	864.0	807.6	752.4
35°	1462.9	1434.1	1374.1	1314.1	1260.1	1206.1	1141.3	1084.9	1010.5	942.1	871.2
37.5°	1698.1	1646.5	1591.3	1526.5	1459.3	1394.5	1315.3	1237.3	1152.1	1077.7	988.9
40°	1966.9	1904.5	1858.9	1789.3	1694.5	1602.1	1528.9	1431.7	1324.9	1225.3	1120.9
42.5°	2335.3	2265.7	2184.1	2078.5	2010.1	1902.1	1807.3	1692.1	1551.7	1440.1	1314.1
45°	2761.4	2666.5	2587.3	2485.3	2402.5	2268.1	2157.7	2004.1	1863.7	1717.3	1563.7
47.5°	3247.4	3129.8	3014.6	2913.8	2781.8	2649.7	2509.3	2346.1	2166.1	2005.3	1822.9
50°	3805.4	3638.6	3479.0	3349.4	3168.2	3015.8	2863.4	2679.7	2480.5	2295.7	2088.1
52.5°	4425.8	4232.6	4021.4	3822.2	3612.2	3416.6	3233.0	3021.8	2799.8	2574.1	2342.5
55°	5174.7	5029.5	4781.1	4527.8	4247.0	3985.4	3749.0	3487.4	3217.4	2921.0	2677.3
57.5°	6347.1	6276.3	6068.7	5815.5	5449.5	5131.5	4730.7	4410.2	4019.0	3611.0	3296.6
60°	7936.0	7848.4	7732.0	7526.8	7236.4	6804.4	6362.7	5864.7	5269.5	4704.3	4167.8
62.5°	8783.3	8752.1	8657.3	8515.7	8244.4	7903.6	7458.4	6911.2	6239.1	5552.7	4868.7
63°	8808.5	8768.9	8687.3	8543.3	8304.5	7974.4	7537.6	7006.0	6348.3	5648.7	4950.3
65°	8467.7	8452.1	8369.3	8212.0	8048.8	7796.8	7458.4	7001.2	6449.2	5787.9	5093.1
67.5°	7510.0	7463.2	7336.0	7288.0	7174.0	6998.8	6740.8	6426.3	6031.5	5511.9	4911.9
70°	6351.9	6282.3	6122.7	6037.5	5898.3	5787.9	5630.7	5406.3	5162.7	4800.3	4352.6
72.5°	5124.3	4980.3	4833.9	4611.9	4417.4	4220.6	4046.6	3888.2	3620.6	3474.2	3134.6
75°	3327.8	3066.2	2815.4	2479.3	2176.9	1909.3	1648.9	1516.9	1242.1	1130.5	970.9
77.5°	1579.3	1432.9	1236.1	1083.7	889.2	726.0	592.8	445.2	349.2	273.6	208.8
80°	1274.5	1150.9	1032.1	894.0	747.6	596.4	457.2	342.0	242.4	168.0	118.8
82.5°	1136.5	1002.1	855.6	760.8	661.2	541.2	444.0	362.4	267.6	195.6	133.2
85°	441.6	372.0	286.8	234.0	182.4	150.0	135.6	93.6	73.2	57.6	44.4
87.5°	38.4	31.2	25.2	16.8	18.0	9.6	10.8	7.2	6.0	6.0	4.8
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2
2.5°	265.2	264.0	262.8	260.4	260.4	258.0	256.8	255.6	249.6	236.4	225.6
5°	278.4	276.0	273.6	270.0	267.6	264.0	261.6	258.0	244.8	219.6	198.0
7.5°	297.6	292.8	289.2	282.0	278.4	273.6	270.0	264.0	242.4	204.0	174.0
10°	320.4	312.0	306.0	297.6	290.4	284.4	278.4	270.0	240.0	187.2	152.4
12.5°	348.0	338.4	326.4	316.8	307.2	298.8	290.4	279.6	236.4	172.8	135.6
15°	375.6	361.2	352.8	339.6	326.4	314.4	302.4	292.8	237.6	157.2	121.2
17.5°	406.8	392.4	374.4	360.0	345.6	330.0	315.6	296.4	231.6	145.2	110.4
20°	436.8	416.4	399.6	381.6	361.2	342.0	324.0	307.2	226.8	133.2	100.8
22.5°	469.2	445.2	423.6	400.8	375.6	354.0	332.4	310.8	218.4	122.4	92.4
25°	508.8	481.2	450.0	422.4	396.0	369.6	342.0	315.6	210.0	112.8	86.4
27.5°	556.8	520.8	489.6	454.8	417.6	384.0	354.0	325.2	201.6	105.6	80.4
30°	618.0	576.0	531.6	487.2	447.6	409.2	367.2	331.2	193.2	98.4	74.4
32.5°	699.6	646.8	592.8	541.2	488.4	439.2	394.8	348.0	188.4	92.4	68.4
35°	807.6	739.2	673.2	608.4	544.8	484.8	427.2	374.4	188.4	85.2	61.2
37.5°	909.6	830.4	746.4	666.0	590.4	520.8	452.4	388.8	178.8	79.2	55.2
40°	1020.1	925.3	826.8	732.0	640.8	554.4	476.4	403.2	170.4	72.0	49.2
42.5°	1189.3	1069.3	940.9	830.4	721.2	614.4	517.2	430.8	159.6	64.8	43.2
45°	1411.3	1258.9	1107.7	973.3	834.0	703.2	588.0	481.2	157.2	58.8	37.2
47.5°	1648.9	1468.9	1291.3	1119.7	956.5	804.0	666.0	537.6	157.2	52.8	32.4
50°	1885.3	1659.7	1470.1	1270.9	1087.3	907.2	742.8	596.4	158.4	48.0	26.4
52.5°	2098.9	1857.7	1645.3	1414.9	1212.1	1003.3	824.4	654.0	156.0	42.0	21.6
55°	2395.3	2112.1	1866.1	1611.7	1374.1	1138.9	936.1	740.4	157.2	37.2	18.0
57.5°	2941.4	2608.9	2312.5	1978.9	1705.3	1401.7	1155.7	918.0	171.6	31.2	13.2
60°	3725.0	3293.0	2876.6	2469.7	2121.7	1760.5	1441.3	1161.7	201.6	25.2	9.6
62.5°	4251.8	3686.6	3189.8	2740.9	2336.5	1958.5	1610.5	1292.5	222.0	20.4	6.0
63°	4305.8	3721.4	3222.2	2759.0	2346.1	1968.1	1617.7	1302.1	223.2	19.2	6.0
65°	4407.8	3781.4	3240.2	2762.6	2336.5	1954.9	1612.9	1300.9	225.6	15.6	4.8
67.5°	4291.4	3689.0	3135.8	2659.3	2252.5	1876.9	1552.9	1252.9	224.4	10.8	3.6
70°	3837.8	3338.6	2852.6	2408.5	2038.9	1699.3	1413.7	1142.5	206.4	7.2	2.4
72.5°	2817.8	2478.1	2101.3	1780.9	1536.1	1275.7	1088.5	858.0	159.6	4.8	1.2
75°	835.2	760.8	639.6	564.0	498.0	411.6	366.0	285.6	81.6	2.4	0.0
77.5°	166.8	151.2	135.6	123.6	116.4	99.6	94.8	78.0	33.6	1.2	0.0
80°	87.6	72.0	61.2	54.0	46.8	38.4	32.4	26.4	6.0	0.0	0.0
82.5°	84.0	56.4	40.8	33.6	28.8	22.8	18.0	13.2	3.6	0.0	0.0
85°	31.2	24.0	18.0	14.4	12.0	10.8	8.4	7.2	0.0	0.0	0.0
87.5°	4.8	3.6	3.6	2.4	2.4	1.2	1.2	1.2	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°	253.2	253.2	253.2	253.2	253.2	253.2	253.2
2.5°	214.8	205.2	200.4	194.4	194.4	193.2	195.6
5°	178.8	165.6	156.0	148.8	150.0	146.4	147.6
7.5°	151.2	138.0	129.6	124.8	123.6	122.4	122.4
10°	130.8	118.8	111.6	108.0	106.8	106.8	106.8
12.5°	116.4	104.4	98.4	96.0	96.0	94.8	94.8
15°	104.4	94.8	88.8	86.4	86.4	85.2	86.4
17.5°	94.8	85.2	80.4	78.0	78.0	76.8	76.8
20°	86.4	78.0	73.2	69.6	69.6	68.4	69.6
22.5°	79.2	70.8	64.8	62.4	61.2	60.0	61.2
25°	72.0	63.6	57.6	54.0	52.8	52.8	51.6
27.5°	66.0	57.6	50.4	46.8	45.6	45.6	44.4
30°	60.0	50.4	43.2	39.6	38.4	38.4	38.4
32.5°	54.0	43.2	37.2	33.6	32.4	32.4	32.4
35°	48.0	37.2	31.2	27.6	26.4	26.4	26.4
37.5°	40.8	31.2	24.0	21.6	20.4	19.2	19.2
40°	34.8	24.0	18.0	15.6	13.2	13.2	13.2
42.5°	28.8	19.2	13.2	9.6	8.4	7.2	8.4
45°	24.0	14.4	8.4	4.8	3.6	3.6	3.6
47.5°	19.2	9.6	3.6	1.2	1.2	1.2	1.2
50°	14.4	6.0	1.2	0.0	0.0	1.2	1.2
52.5°	10.8	3.6	0.0	0.0	0.0	0.0	0.0
55°	6.0	1.2	0.0	0.0	0.0	0.0	0.0
57.5°	3.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.2	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.2	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)