

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: P181226

Luminaire Tested: **ICS-E04-LED-E1-T2-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181226
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33723)
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-T2-HSS
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ HOUSE SIDE SHIELD
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5765 lumens
Efficiency: N/A
Efficacy: 59.3 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

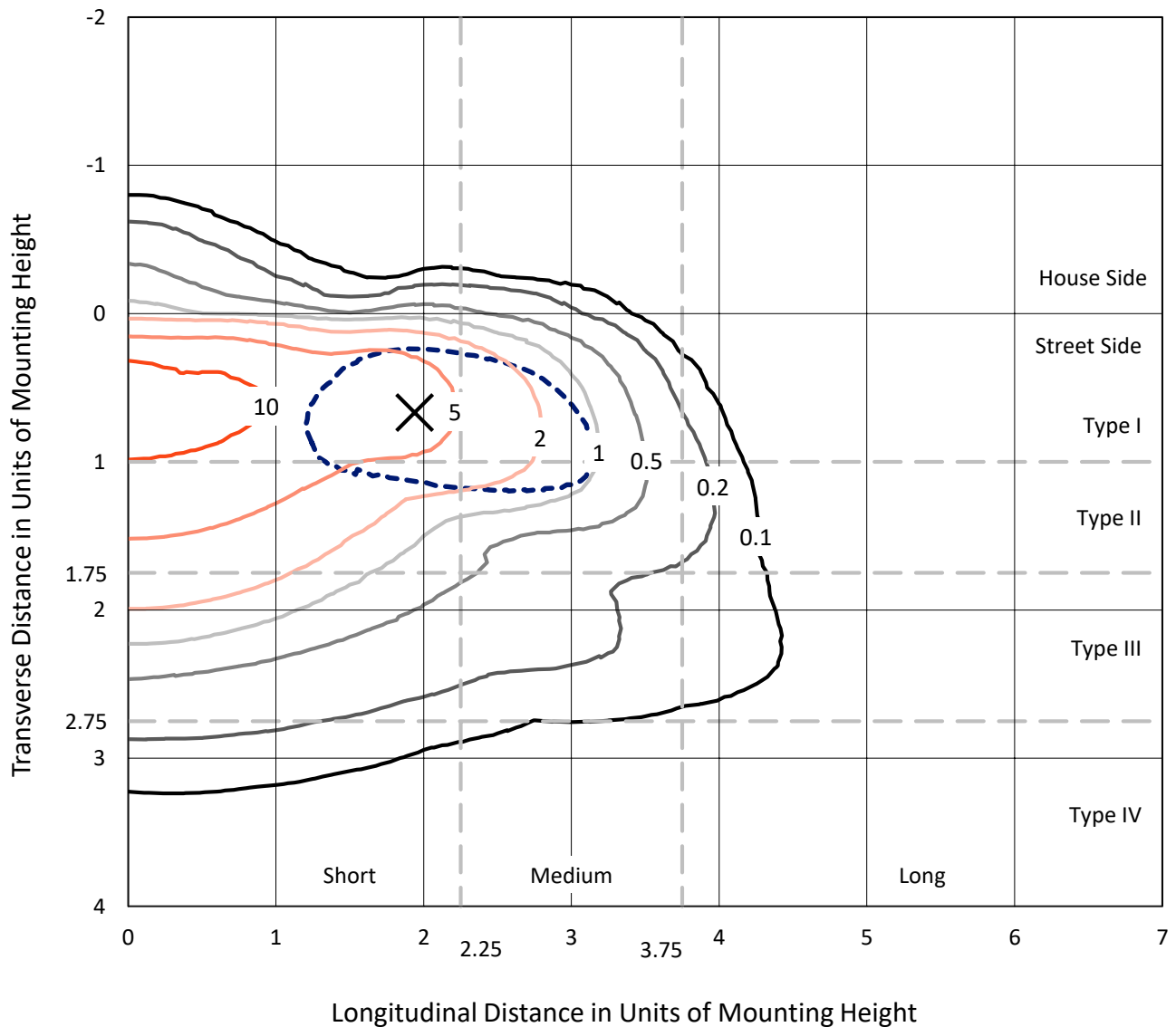
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

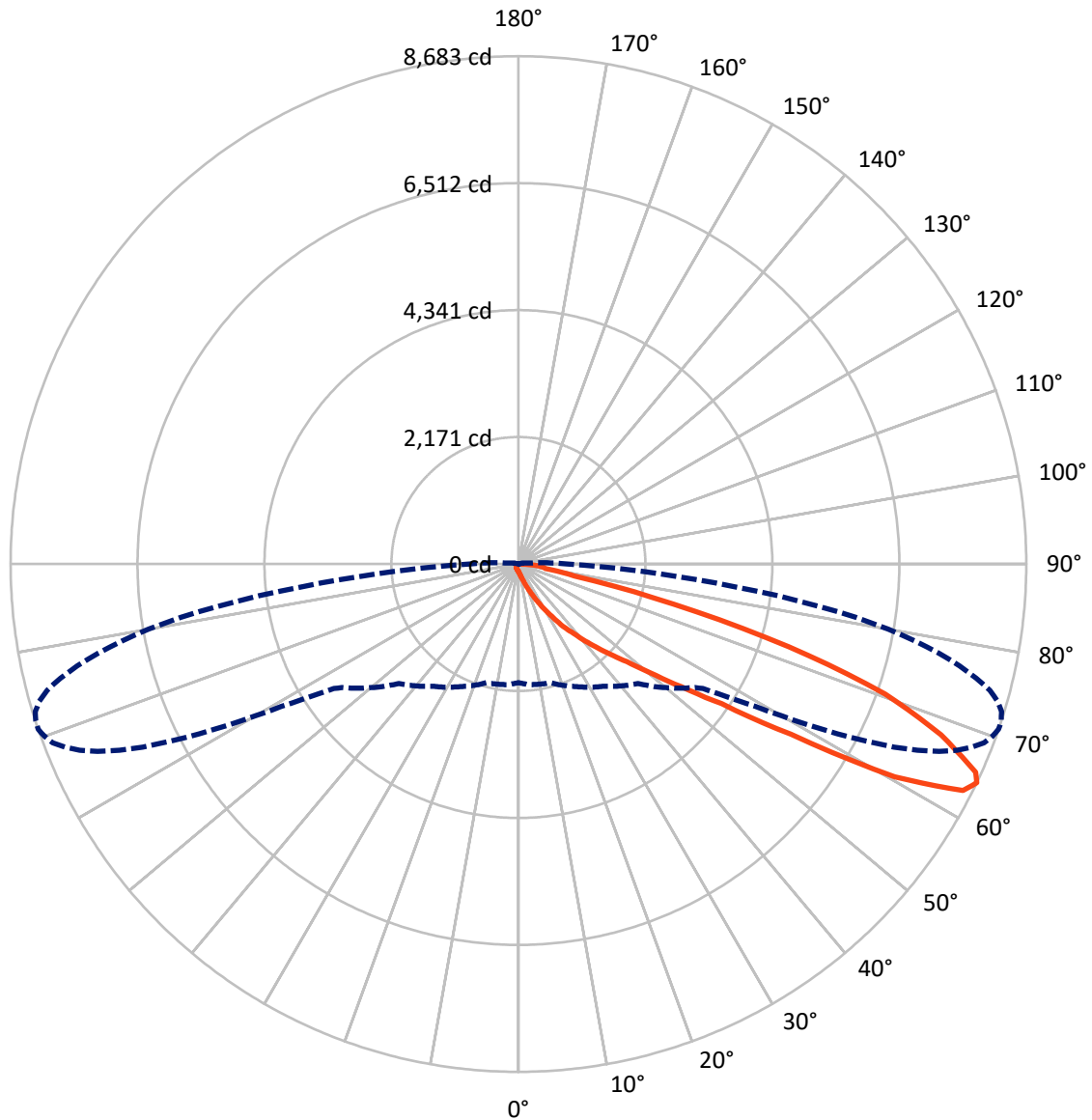
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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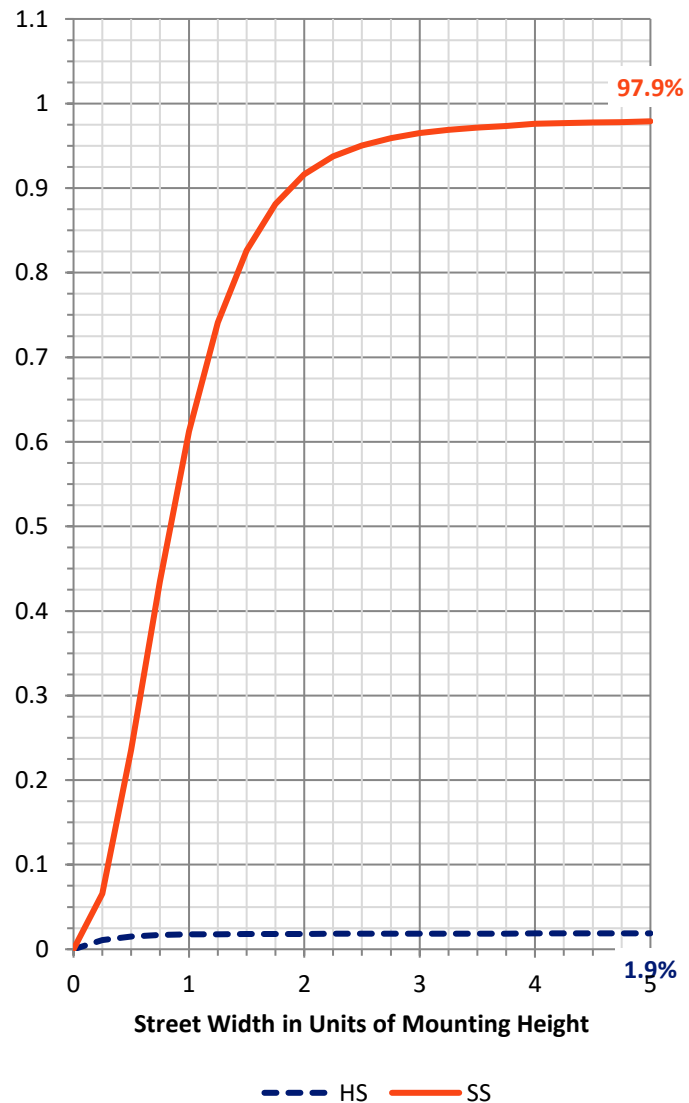
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	110.4	0.0	110.4
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	5654.6	0.0	5654.6
	% Fixture	98.1	0.0	98.1
Total	Lumens	5765.0	0.0	5765.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.7	0.3
10°-20°	104.2	1.8
20°-30°	266.2	4.6
30°-40°	538.5	9.3
40°-50°	984.4	17.1
50°-60°	1533.6	26.6
60°-70°	1704.6	29.6
70°-80°	555.9	9.6
80°-90°	59.8	1.0
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°	5765.0	100.0
0°-180°	5765.0	100.0



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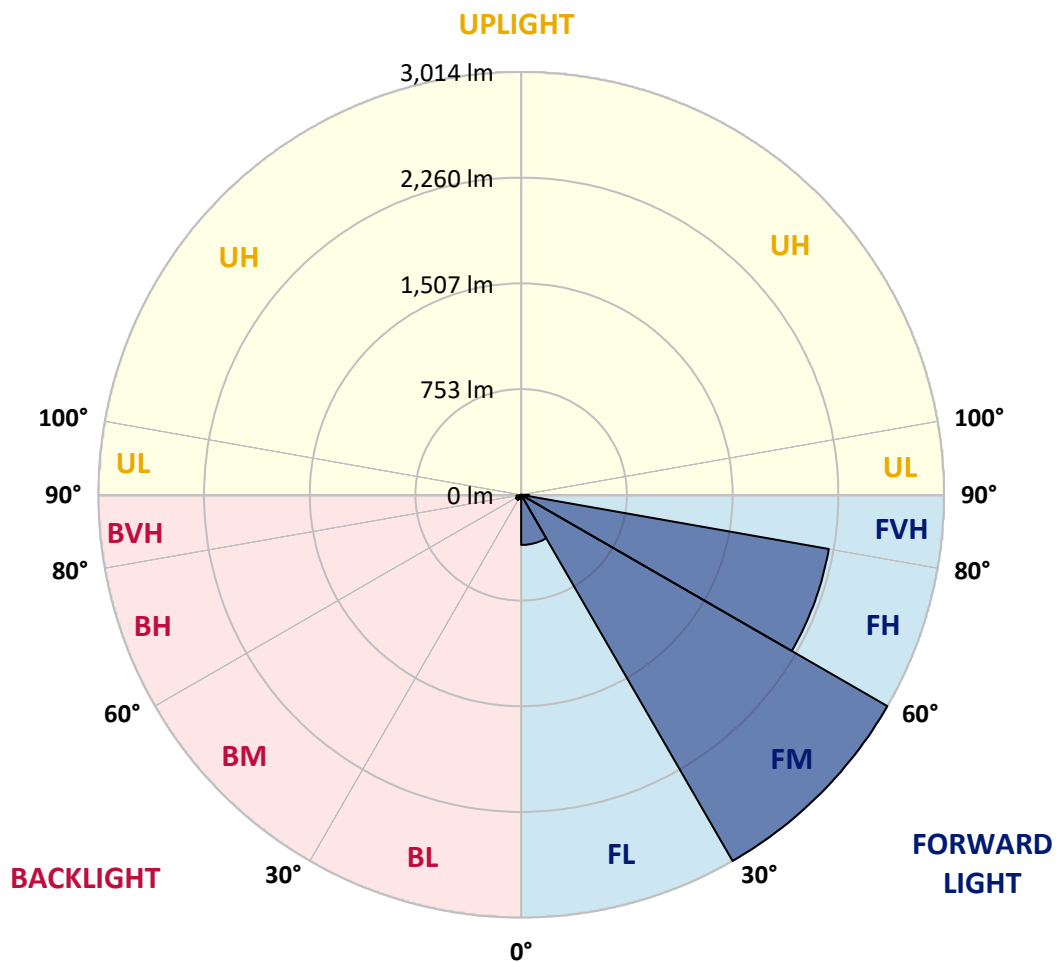
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	357.4	6.2			
FM (30°-60°)	3013.8	52.3			
FH (60°-80°)	2226.5	38.6			G2/5000
FVH (80°-90°)	56.9	1.0			G1/100
BL (0°-30°)	30.7	0.5	B0/110		
BM (30°-60°)	42.7	0.7	B0/220		
BH (60°-80°)	34.1	0.6	B0/110		G0/110
BVH (80°-90°)	2.9	0.1			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°	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4
2.5°	172.8	170.4	170.4	166.8	162.0	157.2	152.4	151.2	150.0	148.8	148.8
5°	271.2	261.6	258.0	244.8	228.0	207.6	189.6	184.8	184.8	181.2	178.8
7.5°	426.0	421.2	396.0	382.8	343.2	294.0	242.4	237.6	236.4	231.6	224.4
10°	624.0	614.4	596.4	558.0	486.0	400.8	327.6	315.6	307.2	297.6	288.0
12.5°	822.0	810.0	783.6	721.2	649.2	540.0	422.4	411.6	398.4	385.2	369.6
15°	1020.1	1011.7	970.9	908.4	814.8	684.0	535.2	516.0	505.2	478.8	466.8
17.5°	1191.7	1180.9	1148.5	1077.7	980.5	836.4	660.0	636.0	618.0	602.4	573.6
20°	1340.5	1329.7	1298.5	1239.7	1130.5	988.9	794.4	782.4	750.0	726.0	709.2
22.5°	1431.7	1428.1	1407.7	1351.3	1254.1	1128.1	948.1	928.9	907.2	874.8	855.6
25°	1488.1	1484.5	1472.5	1432.9	1366.9	1274.5	1117.3	1093.3	1074.1	1045.3	1021.3
27.5°	1546.9	1544.5	1534.9	1500.1	1465.3	1407.7	1288.9	1275.7	1233.7	1216.9	1194.1
30°	1644.1	1633.3	1641.7	1624.9	1580.5	1544.5	1461.7	1442.5	1424.5	1395.7	1375.3
32.5°	1798.9	1780.9	1798.9	1780.9	1761.7	1718.5	1639.3	1633.3	1615.3	1597.3	1568.5
35°	1988.5	1981.3	1995.7	2011.3	1995.7	1938.1	1842.1	1824.1	1816.9	1788.1	1777.3
37.5°	2179.3	2192.5	2218.9	2253.7	2244.1	2202.1	2066.5	2049.7	2036.5	2011.3	1992.1
40°	2384.5	2385.7	2442.1	2492.5	2517.7	2492.5	2313.7	2300.5	2282.5	2246.5	2241.7
42.5°	2607.7	2598.1	2640.1	2696.5	2748.1	2783.0	2640.1	2614.9	2589.7	2548.9	2521.3
45°	2805.8	2805.8	2839.4	2892.2	2971.4	3059.0	2984.6	2958.2	2934.2	2900.6	2869.4
47.5°	2952.2	2953.4	2973.8	3050.6	3174.2	3305.0	3307.4	3312.2	3294.2	3254.6	3255.8
50°	3055.4	3042.2	3069.8	3144.2	3287.0	3492.2	3639.8	3648.2	3662.6	3630.2	3639.8
52.5°	3131.0	3125.0	3143.0	3205.4	3348.2	3599.0	3912.2	3948.2	3969.8	3974.6	4014.2
55°	3091.4	3095.0	3138.2	3228.2	3381.8	3669.8	4143.8	4202.6	4253.0	4296.2	4345.4
57.5°	2960.6	2971.4	3047.0	3187.4	3389.0	3727.4	4389.8	4479.8	4574.6	4689.9	4787.1
60°	2751.7	2777.0	2879.0	3075.8	3319.4	3651.8	4463.0	4601.1	4746.3	4921.5	5117.1
62.5°	2445.7	2450.5	2517.7	2708.5	2977.4	3249.8	4127.0	4303.4	4495.4	4748.7	5022.3
64°	2026.9	2070.1	2101.3	2311.3	2551.3	2891.0	3683.0	3805.4	4073.0	4383.8	4728.3
65°	1672.9	1724.5	1749.7	1959.7	2234.5	2558.5	3296.6	3427.4	3709.4	4025.0	4454.6
67.5°	986.5	951.7	1024.9	1148.5	1378.9	1762.9	2223.7	2323.3	2533.3	2909.0	3252.2
70°	636.0	636.0	703.2	829.2	1042.9	1336.9	1527.7	1485.7	1530.1	1675.3	1917.7
72.5°	408.0	429.6	470.4	577.2	775.2	1120.9	1561.3	1363.3	1260.1	1212.1	1209.7
75°	186.0	198.0	242.4	306.0	414.0	730.8	1574.5	1488.1	1393.3	1302.1	1231.3
77.5°	39.6	45.6	76.8	158.4	201.6	337.2	1117.3	1246.9	1350.1	1380.1	1380.1
80°	20.4	21.6	32.4	74.4	86.4	114.0	430.8	566.4	698.4	872.4	1054.9
82.5°	8.4	9.6	19.2	33.6	36.0	34.8	114.0	144.0	198.0	288.0	429.6
85°	2.4	2.4	8.4	13.2	19.2	15.6	25.2	28.8	37.2	54.0	103.2
87.5°	0.0	0.0	1.2	2.4	3.6	6.0	7.2	7.2	7.2	7.2	7.2
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4
2.5°	147.6	147.6	146.4	145.2	145.2	142.8	142.8	141.6	141.6	140.4	140.4
5°	177.6	175.2	172.8	169.2	168.0	165.6	163.2	160.8	158.4	157.2	154.8
7.5°	220.8	218.4	211.2	206.4	200.4	196.8	192.0	188.4	184.8	182.4	177.6
10°	278.4	270.0	266.4	249.6	246.0	237.6	230.4	225.6	216.0	210.0	204.0
12.5°	360.0	344.4	338.4	309.6	301.2	289.2	280.8	268.8	258.0	250.8	240.0
15°	452.4	440.4	417.6	388.8	373.2	360.0	339.6	330.0	315.6	300.0	284.4
17.5°	562.8	541.2	516.0	478.8	459.6	439.2	420.0	399.6	375.6	361.2	344.4
20°	691.2	668.4	637.2	590.4	567.6	547.2	513.6	499.2	470.4	441.6	420.0
22.5°	831.6	808.8	778.8	726.0	696.0	662.4	634.8	609.6	576.0	547.2	522.0
25°	990.1	963.7	940.9	879.6	842.4	807.6	777.6	733.2	704.4	670.8	636.0
27.5°	1170.1	1138.9	1108.9	1041.7	1006.9	968.5	932.5	885.6	858.0	802.8	770.4
30°	1354.9	1316.5	1285.3	1216.9	1185.7	1146.1	1096.9	1054.9	1008.1	970.9	918.0
32.5°	1549.3	1518.1	1492.9	1420.9	1381.3	1332.1	1287.7	1243.3	1202.5	1142.5	1094.5
35°	1756.9	1729.3	1701.7	1639.3	1604.5	1567.3	1516.9	1462.9	1406.5	1344.1	1300.9
37.5°	1975.3	1953.7	1932.1	1856.5	1815.7	1776.1	1718.5	1664.5	1614.1	1548.1	1474.9
40°	2204.5	2184.1	2149.3	2086.9	2043.7	2007.7	1954.9	1904.5	1836.1	1762.9	1698.1
42.5°	2492.5	2448.1	2418.1	2349.7	2304.1	2264.5	2217.7	2142.1	2084.5	1996.9	1934.5
45°	2829.8	2787.8	2738.5	2668.9	2612.5	2547.7	2481.7	2430.1	2358.1	2278.9	2198.5
47.5°	3209.0	3175.4	3117.8	3049.4	2993.0	2928.2	2850.2	2784.2	2696.5	2604.1	2494.9
50°	3626.6	3591.8	3553.4	3476.6	3420.2	3359.0	3297.8	3219.8	3140.6	3030.2	2917.4
52.5°	4014.2	4021.4	3998.6	3962.6	3935.0	3871.4	3815.0	3740.6	3671.0	3570.2	3482.6
55°	4397.0	4459.4	4483.4	4518.2	4530.2	4478.6	4477.4	4368.2	4326.2	4267.4	4217.0
57.5°	4902.3	5040.3	5149.5	5360.7	5449.5	5539.5	5556.3	5479.5	5558.7	5456.7	5491.5
60°	5331.9	5585.1	5856.3	6402.3	6676.0	6882.4	7048.0	7170.4	7249.6	7384.0	7391.2
62.5°	5370.3	5768.7	6181.5	6978.4	7352.8	7666.0	7964.8	8173.6	8339.3	8491.7	8528.9
64°	5186.7	5679.9	6181.5	7145.2	7528.0	7876.0	8148.4	8356.1	8525.3	8620.1	8682.5
65°	4853.1	5405.1	5982.3	7034.8	7429.6	7799.2	8059.6	8268.4	8428.1	8522.9	8587.7
67.5°	3595.4	4129.4	4709.1	5934.3	6556.0	6894.4	7228.0	7520.8	7649.2	7769.2	7792.0
70°	2191.3	2578.9	2978.6	4115.0	4692.3	5300.7	5676.3	6104.7	6404.7	6589.6	6650.8
72.5°	1322.5	1456.9	1695.7	2306.5	2859.8	3287.0	3806.6	4215.8	4551.8	4737.9	4831.5
75°	1177.3	1160.5	1191.7	1446.1	1642.9	1899.7	2088.1	2344.9	2552.5	2617.3	2738.5
77.5°	1360.9	1312.9	1263.7	1215.7	1206.1	1182.1	1143.7	1153.3	1062.1	974.5	976.9
80°	1212.1	1327.3	1395.7	1345.3	1231.3	1116.1	974.5	798.0	624.0	516.0	470.4
82.5°	608.4	865.2	1112.5	1357.3	1340.5	1238.5	1082.5	889.2	688.8	529.2	422.4
85°	187.2	332.4	468.0	650.4	754.8	740.4	650.4	632.4	451.2	351.6	271.2
87.5°	8.4	8.4	8.4	7.2	8.4	8.4	8.4	9.6	9.6	10.8	10.8
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4
2.5°	140.4	139.2	138.0	136.8	136.8	136.8	135.6	135.6	134.4	134.4	133.2
5°	154.8	152.4	151.2	148.8	148.8	146.4	145.2	144.0	141.6	140.4	139.2
7.5°	174.0	171.6	168.0	164.4	163.2	159.6	156.0	153.6	151.2	148.8	146.4
10°	199.2	194.4	187.2	182.4	178.8	174.0	169.2	165.6	160.8	156.0	153.6
12.5°	231.6	222.0	214.8	206.4	199.2	192.0	183.6	178.8	174.0	166.8	162.0
15°	268.8	259.2	250.8	236.4	224.4	214.8	207.6	196.8	188.4	178.8	171.6
17.5°	332.4	307.2	290.4	276.0	264.0	246.0	231.6	219.6	208.8	196.8	188.4
20°	394.8	373.2	350.4	333.6	307.2	291.6	272.4	255.6	236.4	222.0	207.6
22.5°	486.0	458.4	429.6	404.4	368.4	346.8	321.6	300.0	276.0	252.0	236.4
25°	601.2	560.4	522.0	486.0	452.4	420.0	387.6	352.8	327.6	298.8	272.4
27.5°	722.4	676.8	639.6	592.8	549.6	510.0	469.2	432.0	388.8	351.6	320.4
30°	874.8	812.4	769.2	712.8	669.6	614.4	564.0	514.8	462.0	418.8	374.4
32.5°	1029.7	987.7	914.4	866.4	801.6	735.6	682.8	626.4	561.6	505.2	451.2
35°	1233.7	1161.7	1100.5	1033.3	962.5	894.0	825.6	745.2	679.2	609.6	543.6
37.5°	1413.7	1340.5	1269.7	1182.1	1101.7	1029.7	946.9	862.8	784.8	702.0	622.8
40°	1622.5	1531.3	1447.3	1365.7	1266.1	1180.9	1094.5	990.1	900.0	808.8	715.2
42.5°	1850.5	1758.1	1658.5	1564.9	1455.7	1351.3	1244.5	1140.1	1039.3	928.9	819.6
45°	2100.1	2002.9	1891.3	1784.5	1665.7	1550.5	1423.3	1303.3	1184.5	1060.9	934.9
47.5°	2409.7	2284.9	2181.7	2048.5	1900.9	1779.7	1623.7	1486.9	1351.3	1207.3	1065.7
50°	2810.6	2668.9	2520.1	2372.5	2209.3	2055.7	1882.9	1720.9	1539.7	1378.9	1216.9
52.5°	3342.2	3236.6	3063.8	2894.6	2695.3	2499.7	2262.1	2052.1	1819.3	1614.1	1416.1
55°	4097.0	4027.4	3877.4	3692.6	3518.6	3233.0	2959.4	2632.9	2330.5	2035.3	1756.9
57.5°	5463.9	5388.3	5221.5	5177.1	4909.5	4699.5	4379.0	3956.6	3444.2	2993.0	2542.9
60°	7432.0	7284.4	7121.2	7091.2	6776.8	6556.0	6237.9	5787.9	5305.5	4585.4	3972.2
62.5°	8531.3	8486.9	8354.9	8192.8	7920.4	7592.8	7235.2	6799.6	6309.9	5678.7	4949.1
64°	8678.9	8638.1	8524.1	8341.7	8068.0	7742.8	7346.8	6912.4	6421.5	5845.5	5179.5
65°	8586.5	8528.9	8431.7	8263.6	8009.2	7697.2	7298.8	6858.4	6360.3	5805.9	5186.7
67.5°	7841.2	7814.8	7726.0	7570.0	7410.4	7129.6	6779.2	6385.5	5978.7	5429.1	4921.5
70°	6658.0	6638.8	6526.0	6463.6	6199.5	6021.9	5738.7	5429.1	5069.1	4686.3	4254.2
72.5°	4935.9	4871.1	4779.9	4685.1	4506.2	4262.6	4041.8	3711.8	3525.8	3203.0	2959.4
75°	2617.3	2576.5	2434.9	2236.9	2016.1	1902.1	1672.9	1467.7	1304.5	1231.3	1054.9
77.5°	904.8	824.4	745.2	656.4	520.8	410.4	327.6	261.6	206.4	182.4	152.4
80°	451.2	428.4	403.2	352.8	296.4	238.8	187.2	147.6	121.2	103.2	92.4
82.5°	366.0	324.0	289.2	253.2	202.8	166.8	132.0	108.0	88.8	78.0	68.4
85°	216.0	165.6	126.0	114.0	88.8	76.8	66.0	56.4	48.0	45.6	42.0
87.5°	8.4	10.8	10.8	8.4	10.8	9.6	9.6	8.4	8.4	8.4	8.4
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°	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4
2.5°	133.2	132.0	132.0	130.8	129.6	129.6	129.6	128.4	126.0	121.2	117.6
5°	138.0	136.8	135.6	133.2	132.0	130.8	129.6	129.6	123.6	115.2	109.2
7.5°	144.0	141.6	139.2	136.8	135.6	133.2	130.8	129.6	121.2	110.4	104.4
10°	150.0	146.4	142.8	141.6	138.0	135.6	132.0	129.6	120.0	106.8	98.4
12.5°	157.2	152.4	147.6	144.0	139.2	136.8	133.2	129.6	117.6	103.2	93.6
15°	165.6	158.4	152.4	148.8	144.0	138.0	133.2	129.6	115.2	99.6	88.8
17.5°	176.4	168.0	160.8	153.6	146.4	140.4	135.6	130.8	111.6	94.8	82.8
20°	193.2	182.4	170.4	162.0	152.4	145.2	136.8	130.8	109.2	90.0	78.0
22.5°	216.0	199.2	186.0	171.6	159.6	150.0	140.4	133.2	105.6	85.2	72.0
25°	248.4	226.8	205.2	187.2	171.6	158.4	146.4	136.8	103.2	81.6	68.4
27.5°	284.4	259.2	230.4	208.8	187.2	168.0	154.8	142.8	103.2	79.2	64.8
30°	334.8	298.8	264.0	236.4	207.6	186.0	166.8	151.2	103.2	78.0	61.2
32.5°	396.0	355.2	310.8	271.2	237.6	206.4	182.4	162.0	105.6	75.6	58.8
35°	481.2	421.2	368.4	319.2	274.8	238.8	207.6	180.0	109.2	74.4	55.2
37.5°	548.4	476.4	409.2	352.8	301.2	256.8	217.2	187.2	105.6	69.6	51.6
40°	628.8	547.2	465.6	394.8	336.0	278.4	232.8	196.8	103.2	63.6	46.8
42.5°	726.0	624.0	529.2	448.8	375.6	307.2	253.2	208.8	103.2	60.0	43.2
45°	817.2	705.6	600.0	499.2	414.0	338.4	272.4	222.0	102.0	56.4	38.4
47.5°	930.1	798.0	674.4	558.0	459.6	367.2	292.8	234.0	100.8	52.8	34.8
50°	1063.3	902.4	763.2	624.0	504.0	402.0	316.8	247.2	98.4	49.2	31.2
52.5°	1210.9	1038.1	860.4	699.6	559.2	439.2	339.6	259.2	94.8	45.6	27.6
55°	1472.5	1234.9	1024.9	825.6	643.2	494.4	373.2	277.2	91.2	42.0	24.0
57.5°	2100.1	1706.5	1408.9	1108.9	847.2	634.8	464.4	328.8	86.4	37.2	19.2
60°	3297.8	2648.5	2143.3	1681.3	1281.7	974.5	684.0	486.0	92.4	31.2	16.8
62.5°	4230.2	3483.8	2840.6	2260.9	1755.7	1334.5	996.1	726.0	133.2	27.6	13.2
64°	4473.8	3717.8	3031.4	2424.1	1898.5	1464.1	1111.3	820.8	171.6	27.6	12.0
65°	4509.8	3789.8	3099.8	2484.1	1947.7	1498.9	1144.9	852.0	187.2	28.8	10.8
67.5°	4361.0	3747.8	3120.2	2509.3	1984.9	1546.9	1190.5	901.2	211.2	27.6	8.4
70°	3809.0	3357.8	2841.8	2347.3	1872.1	1470.1	1144.9	873.6	220.8	26.4	7.2
72.5°	2592.1	2281.3	1976.5	1626.1	1303.3	1074.1	835.2	615.6	154.8	21.6	6.0
75°	864.0	842.4	753.6	571.2	480.0	390.0	312.0	240.0	58.8	13.2	6.0
77.5°	144.0	123.6	108.0	103.2	86.4	84.0	73.2	58.8	25.2	8.4	6.0
80°	84.0	76.8	67.2	60.0	52.8	46.8	39.6	33.6	15.6	6.0	7.2
82.5°	62.4	55.2	49.2	43.2	37.2	32.4	27.6	22.8	8.4	6.0	7.2
85°	36.0	31.2	27.6	24.0	19.2	16.8	14.4	12.0	6.0	6.0	6.0
87.5°	7.2	7.2	6.0	6.0	6.0	6.0	6.0	4.8	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):

	125°	135°	145°	155°	165°	175°	180°
0°	128.4	128.4	128.4	128.4	128.4	128.4	128.4
2.5°	115.2	111.6	110.4	110.4	110.4	110.4	110.4
5°	105.6	102.0	99.6	98.4	98.4	98.4	98.4
7.5°	98.4	93.6	91.2	88.8	88.8	87.6	87.6
10°	91.2	86.4	82.8	80.4	79.2	79.2	79.2
12.5°	85.2	80.4	75.6	73.2	73.2	72.0	72.0
15°	80.4	73.2	69.6	67.2	67.2	66.0	66.0
17.5°	74.4	68.4	64.8	62.4	61.2	61.2	61.2
20°	68.4	62.4	58.8	57.6	56.4	56.4	55.2
22.5°	63.6	57.6	54.0	52.8	51.6	51.6	50.4
25°	58.8	52.8	49.2	48.0	46.8	45.6	45.6
27.5°	55.2	49.2	45.6	43.2	42.0	40.8	40.8
30°	51.6	44.4	40.8	38.4	37.2	36.0	36.0
32.5°	48.0	40.8	36.0	33.6	32.4	31.2	31.2
35°	43.2	36.0	31.2	30.0	28.8	27.6	26.4
37.5°	39.6	31.2	27.6	25.2	24.0	22.8	22.8
40°	34.8	27.6	24.0	21.6	19.2	18.0	18.0
42.5°	31.2	24.0	20.4	16.8	15.6	14.4	14.4
45°	27.6	21.6	16.8	13.2	12.0	10.8	10.8
47.5°	24.0	18.0	13.2	10.8	9.6	8.4	8.4
50°	20.4	14.4	9.6	7.2	8.4	7.2	7.2
52.5°	18.0	10.8	7.2	7.2	7.2	7.2	7.2
55°	14.4	8.4	6.0	6.0	7.2	7.2	7.2
57.5°	12.0	6.0	4.8	6.0	6.0	6.0	6.0
60°	8.4	4.8	4.8	6.0	6.0	6.0	6.0
62.5°	7.2	4.8	4.8	4.8	6.0	6.0	6.0
64°	6.0	4.8	4.8	4.8	6.0	6.0	6.0
65°	6.0	4.8	4.8	4.8	6.0	6.0	6.0
67.5°	6.0	4.8	4.8	4.8	6.0	6.0	6.0
70°	4.8	4.8	4.8	4.8	6.0	6.0	6.0
72.5°	4.8	4.8	4.8	4.8	6.0	6.0	6.0
75°	4.8	4.8	4.8	4.8	6.0	6.0	6.0
77.5°	4.8	4.8	4.8	6.0	6.0	6.0	6.0
80°	4.8	4.8	4.8	6.0	6.0	6.0	6.0
82.5°	4.8	4.8	4.8	6.0	6.0	6.0	6.0
85°	4.8	4.8	4.8	6.0	6.0	6.0	6.0
87.5°	4.8	4.8	4.8	6.0	6.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)