

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: P180852

Luminaire Tested: **ICS-F04-LED-E1-SL4-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180852
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F04-LED-E1-SL4-HSS-7030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5523.5 lumens
Efficiency: N/A
Efficacy: 54.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-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



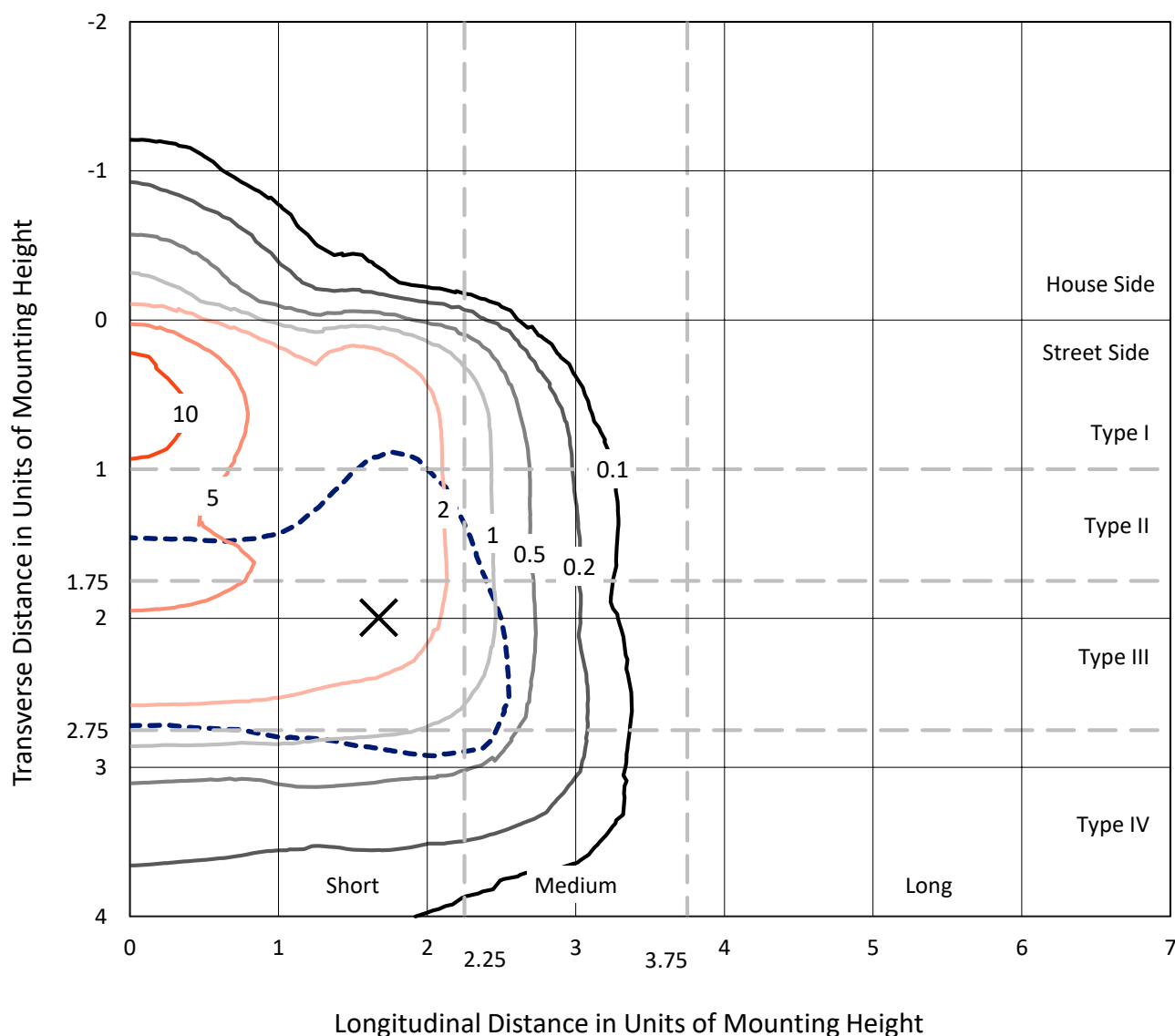
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

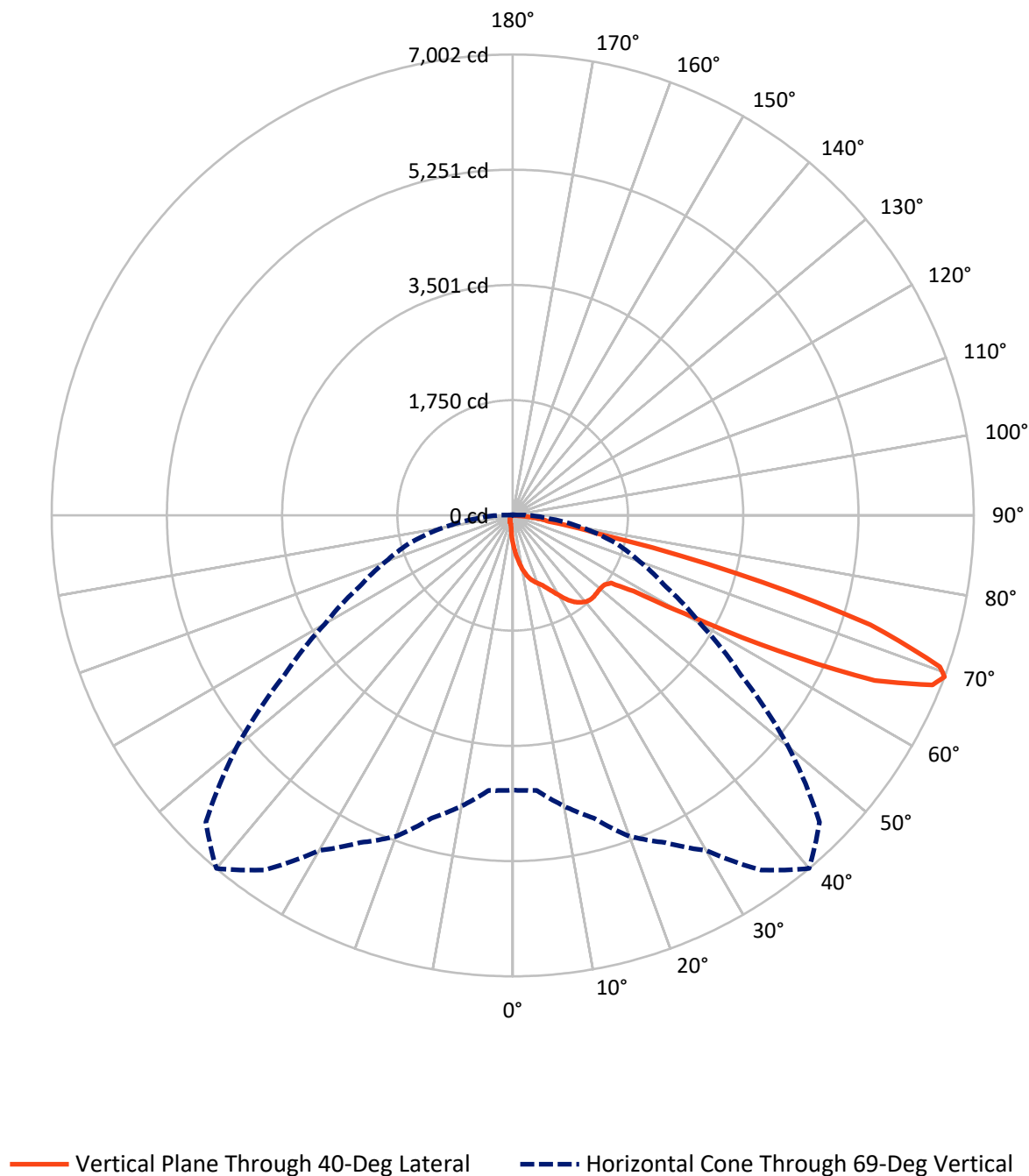


Based on 10 foot mounting height. Maximum calculated value = 12.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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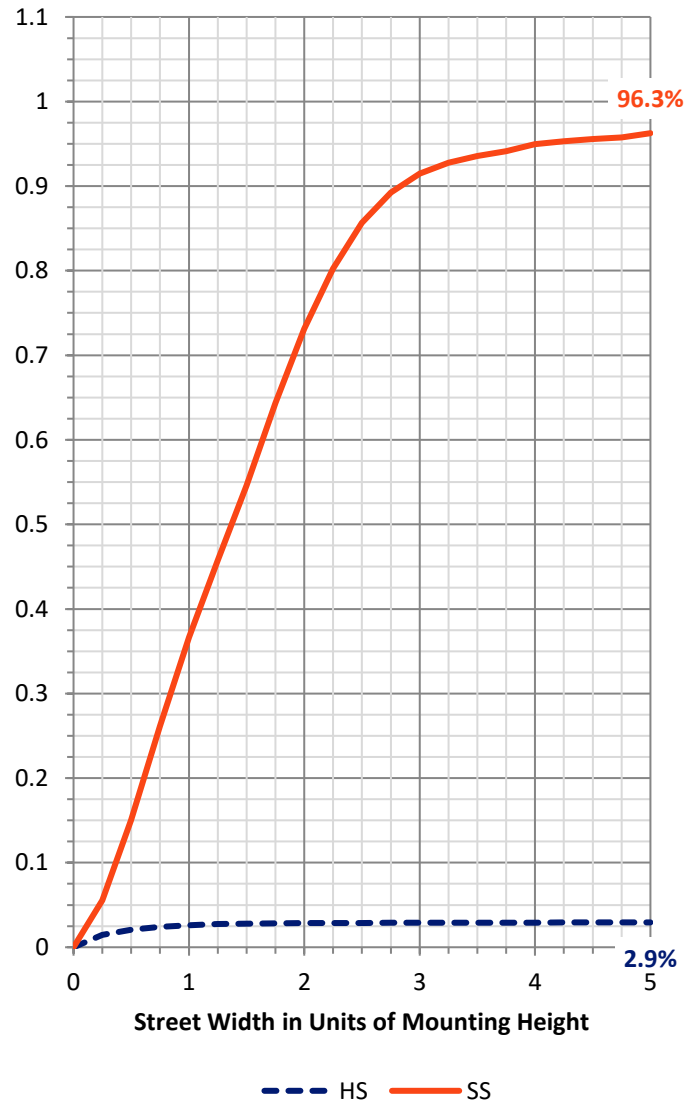
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	164.5	0.0	164.5
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	5359.0	0.0	5359.0
	% Fixture	97.0	0.0	97.0
Total	Lumens	5523.5	0.0	5523.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	0.8
10°-20°	147.8	2.7
20°-30°	282.9	5.1
30°-40°	470.5	8.5
40°-50°	636.7	11.5
50°-60°	995.7	18.0
60°-70°	2047.1	37.1
70°-80°	823.7	14.9
80°-90°	76.2	1.4
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°	5523.5	100.0
0°-180°	5523.5	100.0

Coefficient of Utilization



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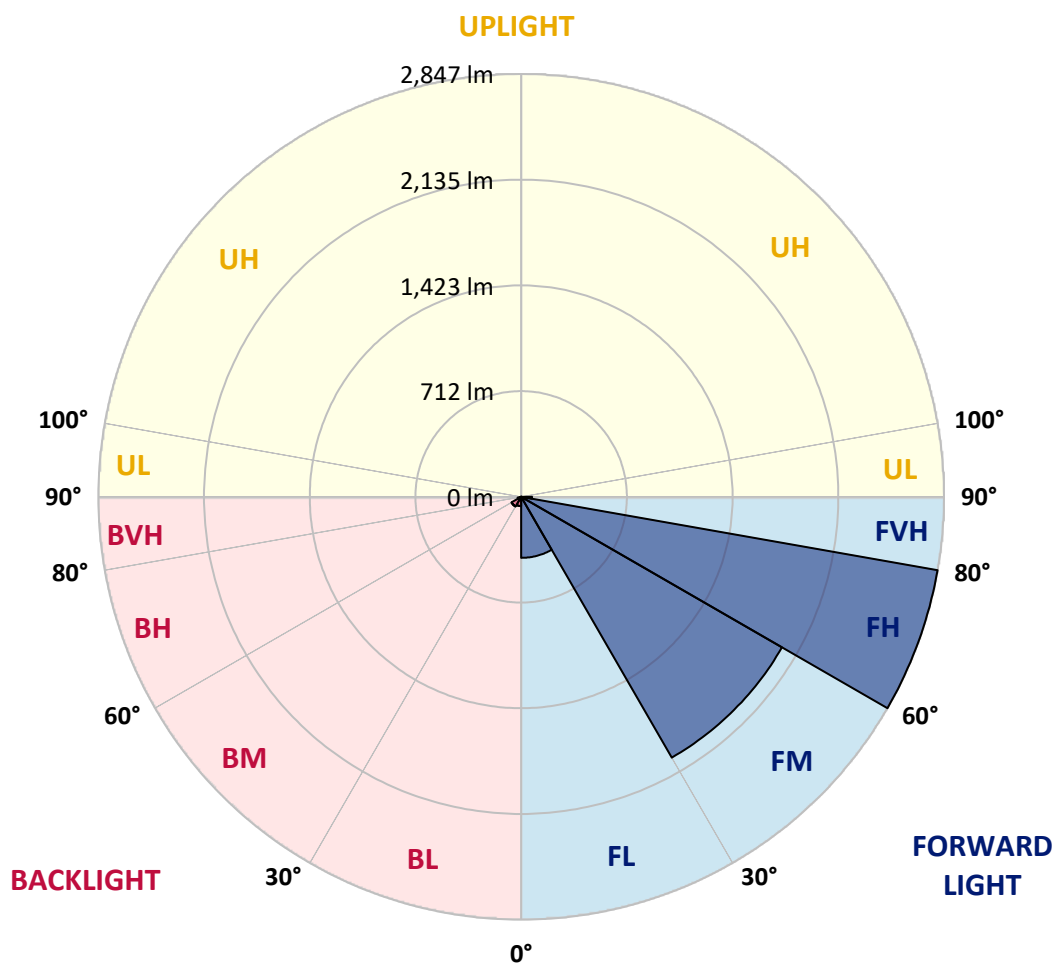
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	411.1	7.4			
FM	(30°-60°)	2027.8	36.7			
FH	(60°-80°)	2846.9	51.5			G2/5000
FVH	(80°-90°)	73.4	1.3			G1/100
BL	(0°-30°)	62.6	1.1	B0/110		
BM	(30°-60°)	75.1	1.4	B0/220		
BH	(60°-80°)	24.0	0.4	B0/110		G0/110
BVH	(80°-90°)	2.8	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	417.1	417.1	417.1	417.1	417.1	417.1	417.1	417.1	417.1	417.1	417.1
2.5°	556.5	550.1	542.9	542.9	533.9	533.9	528.4	513.9	512.1	504.0	495.9
5°	710.3	704.9	695.8	687.7	680.4	667.8	658.7	641.5	622.5	604.4	588.1
7.5°	860.5	857.8	841.5	838.8	827.0	806.2	788.1	762.8	730.2	704.9	675.0
10°	999.8	993.5	989.9	974.5	957.3	934.7	906.7	875.9	837.9	798.1	755.5
12.5°	1110.2	1106.6	1090.3	1084.0	1065.9	1043.3	1008.0	968.2	930.2	878.6	828.8
15°	1192.6	1186.2	1175.4	1165.4	1143.7	1123.8	1091.2	1047.8	1001.7	945.6	885.8
17.5°	1261.3	1249.6	1246.9	1231.5	1208.9	1185.3	1149.1	1109.3	1055.0	998.9	933.8
20°	1353.6	1337.4	1331.9	1309.3	1283.1	1250.5	1208.9	1159.1	1102.1	1040.6	973.6
22.5°	1462.2	1450.5	1438.7	1418.8	1385.3	1339.2	1278.5	1224.3	1151.9	1084.0	1011.6
25°	1616.0	1606.1	1587.1	1559.9	1518.3	1463.1	1389.8	1310.2	1225.2	1138.3	1053.2
27.5°	1765.3	1756.3	1742.7	1721.9	1674.9	1614.2	1523.8	1422.4	1314.7	1209.8	1115.7
30°	1905.6	1897.5	1883.9	1863.1	1821.4	1761.7	1659.5	1550.9	1417.0	1294.8	1181.7
32.5°	2056.7	2054.0	2038.6	2008.7	1972.6	1892.0	1780.7	1664.0	1528.3	1387.1	1255.0
35°	2227.7	2206.9	2192.4	2162.6	2101.0	2015.1	1884.8	1757.2	1614.2	1469.5	1322.0
37.5°	2372.5	2352.6	2334.5	2296.5	2221.4	2111.9	1964.4	1824.2	1676.7	1529.2	1379.0
40°	2478.4	2468.4	2446.7	2396.9	2312.8	2182.5	2023.2	1870.3	1721.9	1573.5	1425.1
42.5°	2557.1	2541.7	2517.3	2465.7	2366.2	2217.8	2046.8	1889.3	1742.7	1600.7	1455.0
45°	2586.0	2573.4	2550.7	2494.6	2387.0	2227.7	2045.8	1883.9	1743.6	1608.8	1474.9
47.5°	2568.8	2556.2	2536.3	2483.8	2377.9	2216.0	2029.6	1868.5	1734.6	1611.5	1493.0
50°	2511.8	2504.6	2489.2	2444.9	2349.9	2193.3	2015.1	1860.4	1732.8	1625.1	1518.3
52.5°	2506.4	2501.9	2482.9	2438.5	2341.7	2186.1	2013.3	1864.9	1748.2	1642.3	1536.4
55°	3062.9	2998.6	2854.8	2732.6	2531.7	2292.9	2104.7	1938.2	1813.3	1710.2	1636.0
57.5°	4353.2	4257.3	4068.2	3835.6	3374.2	2920.8	2558.0	2295.6	2166.2	2119.1	2147.2
60°	4957.6	4940.4	4910.6	4800.2	4564.0	4174.0	3739.7	3270.1	3081.9	3065.6	3122.6
62.5°	5244.5	5233.6	5242.7	5229.1	5155.8	5041.8	4916.9	4714.2	4527.8	4407.5	4152.3
65°	5376.6	5383.8	5435.4	5476.1	5485.1	5515.0	5606.4	5858.8	6043.4	5733.1	5024.6
67.5°	5040.9	5083.4	5201.9	5350.3	5524.1	5692.4	5963.8	6495.9	6875.0	6510.3	5504.2
69°	4173.1	4193.9	4483.5	4763.1	5187.5	5484.2	5877.8	6575.5	7001.7	6590.0	5466.1
70°	3285.5	3304.5	3614.8	3994.9	4712.4	5094.3	5609.1	6440.7	6883.1	6484.1	5270.7
72.5°	1482.1	1455.0	1564.5	1768.1	2548.0	3154.3	4054.6	5218.2	5678.8	5194.7	3943.3
75°	1035.1	1023.4	1035.1	1036.0	1157.3	1493.0	1883.9	2828.5	3498.1	3018.6	1883.9
77.5°	801.7	793.5	785.4	776.4	790.8	885.8	923.8	1003.5	1303.0	1232.4	718.4
80°	634.3	627.1	647.0	640.6	640.6	651.5	644.2	614.4	558.3	517.6	463.3
82.5°	295.0	296.8	296.8	322.1	388.2	453.3	474.1	444.3	394.5	335.7	270.5
85°	28.1	31.7	53.4	82.3	163.8	184.6	185.5	153.8	153.8	121.2	97.7
87.5°	0.0	0.9	0.9	0.9	8.1	22.6	19.0	5.4	2.7	2.7	4.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	417.1	417.1	417.1	417.1	417.1	417.1	417.1	417.1	417.1	417.1	417.1
2.5°	481.4	478.7	467.8	456.9	447.0	436.1	426.2	416.2	405.4	397.2	387.3
5°	562.8	542.9	520.3	498.6	476.9	454.2	430.7	409.9	388.2	368.3	349.3
7.5°	645.2	606.2	575.5	536.6	501.3	466.0	433.4	399.9	369.2	340.2	313.1
10°	714.8	667.8	619.8	570.1	519.4	472.3	427.1	387.3	346.6	311.3	277.8
12.5°	771.8	712.1	653.3	590.9	533.9	474.1	418.0	370.1	322.1	282.3	247.9
15°	823.4	754.6	684.1	611.7	539.3	471.4	409.0	349.3	300.4	255.2	216.3
17.5°	865.0	786.3	706.7	625.2	547.4	467.8	397.2	334.8	277.8	230.7	192.7
20°	901.2	818.9	732.9	641.5	552.9	466.9	387.3	316.7	257.9	208.1	171.0
22.5°	934.7	852.4	760.1	662.3	561.0	466.0	378.2	303.1	240.7	190.9	153.8
25°	972.7	885.8	789.0	684.1	575.5	469.6	372.8	292.3	225.3	174.6	140.3
27.5°	1015.2	923.8	823.4	711.2	594.5	476.9	371.0	280.5	211.7	159.3	129.4
30°	1075.0	969.1	857.8	738.4	611.7	485.0	369.2	273.3	198.2	147.5	118.5
32.5°	1127.4	1013.4	895.8	766.4	630.7	493.1	368.3	263.3	185.5	135.7	110.4
35°	1182.6	1054.1	928.4	793.5	647.0	502.2	367.4	256.1	173.7	124.0	102.2
37.5°	1230.6	1088.5	953.7	817.1	665.1	510.3	368.3	249.7	162.9	114.0	95.0
40°	1271.3	1123.8	981.8	838.8	684.1	523.0	369.2	243.4	152.0	105.0	88.7
42.5°	1307.5	1157.3	1011.6	863.2	705.8	537.5	374.6	238.0	143.0	96.8	82.3
45°	1335.5	1188.1	1044.2	897.6	741.1	561.0	384.6	234.4	133.9	89.6	76.9
47.5°	1364.5	1233.3	1099.4	951.9	792.6	598.1	401.7	233.4	126.7	84.2	72.4
50°	1404.3	1278.5	1148.2	1007.1	839.7	636.1	422.6	234.4	117.6	78.7	67.9
52.5°	1433.3	1324.7	1211.6	1103.0	951.9	751.9	503.1	250.6	113.1	74.2	62.4
55°	1604.3	1585.3	1588.0	1606.1	1489.4	1279.4	841.5	361.9	133.0	84.2	61.5
57.5°	2262.1	2329.1	2368.0	2367.1	2174.3	1803.3	1130.1	465.1	148.4	97.7	73.3
60°	3127.1	3076.5	3005.0	2828.5	2572.5	2058.5	1264.1	500.4	128.5	77.8	67.0
62.5°	3891.7	3594.9	3331.6	3045.7	2710.0	2147.2	1291.2	497.7	112.2	58.8	47.1
65°	4368.6	3834.7	3409.4	3051.1	2655.7	2073.0	1221.5	456.9	95.0	48.0	38.9
67.5°	4482.6	3705.3	3103.6	2646.7	2218.7	1613.3	896.7	343.8	74.2	39.8	34.4
69°	4233.8	3293.6	2571.6	2053.1	1614.2	1070.4	554.7	217.2	57.0	36.2	31.7
70°	3894.4	2864.7	2094.7	1647.7	1195.3	751.9	388.2	152.9	46.1	33.5	29.0
72.5°	2505.5	1504.8	1029.7	716.6	493.1	299.5	152.0	68.8	35.3	28.1	23.5
75°	971.8	556.5	403.6	306.7	239.8	166.5	92.3	44.3	29.9	23.5	18.1
77.5°	478.7	366.5	299.5	205.4	119.4	74.2	49.8	34.4	24.4	17.2	11.8
80°	378.2	251.5	150.2	93.2	70.6	53.4	38.0	28.1	18.1	10.9	8.1
82.5°	193.6	105.9	77.8	63.3	52.5	41.6	30.8	19.9	11.8	7.2	6.3
85°	60.6	44.3	39.8	38.9	36.2	29.9	21.7	12.7	7.2	4.5	4.5
87.5°	4.5	6.3	8.1	6.3	7.2	6.3	8.1	5.4	3.6	3.6	2.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	417.1	417.1	417.1	417.1	417.1	417.1	417.1	417.1	417.1	417.1	417.1
2.5°	380.0	369.2	359.2	352.9	341.1	336.6	332.1	330.3	322.1	323.9	316.7
5°	332.1	313.1	298.6	284.1	270.5	260.6	252.5	242.5	234.4	230.7	223.5
7.5°	288.6	264.2	245.2	229.8	213.5	200.9	190.0	182.8	175.5	168.3	164.7
10°	250.6	224.4	202.7	187.3	171.9	161.1	152.9	147.5	143.0	140.3	139.3
12.5°	215.4	190.0	170.1	156.5	144.8	139.3	135.7	133.0	132.1	131.2	131.2
15°	188.2	162.9	147.5	137.5	132.1	129.4	128.5	126.7	124.9	124.0	124.0
17.5°	162.9	143.9	133.0	127.6	124.9	123.1	121.2	119.4	117.6	116.7	116.7
20°	145.7	130.3	124.9	121.2	118.5	116.7	114.0	112.2	111.3	110.4	109.5
22.5°	132.1	122.2	118.5	115.8	112.2	109.5	107.7	105.9	104.1	103.2	102.2
25°	122.2	115.8	113.1	109.5	105.9	103.2	100.4	97.7	95.9	95.0	93.2
27.5°	114.9	110.4	106.8	102.2	98.6	95.9	93.2	90.5	88.7	86.9	86.0
30°	108.6	104.1	99.5	95.9	91.4	88.7	85.1	82.3	81.4	79.6	77.8
32.5°	102.2	97.7	93.2	88.7	84.2	80.5	78.7	75.1	73.3	72.4	70.6
35°	95.0	90.5	85.1	81.4	76.9	73.3	70.6	67.9	66.1	64.2	63.3
37.5°	88.7	83.2	77.8	73.3	69.7	66.1	63.3	60.6	58.8	57.0	56.1
40°	81.4	76.0	70.6	66.1	62.4	59.7	57.0	54.3	52.5	51.6	51.6
42.5°	75.1	68.8	63.3	59.7	57.0	53.4	50.7	48.0	47.1	46.1	47.1
45°	68.8	62.4	57.9	54.3	51.6	48.0	45.2	43.4	42.5	43.4	44.3
47.5°	63.3	57.0	52.5	49.8	47.1	44.3	41.6	39.8	39.8	41.6	43.4
50°	57.9	51.6	48.0	46.1	43.4	40.7	37.1	36.2	37.1	38.9	40.7
52.5°	52.5	45.2	42.5	41.6	38.9	36.2	33.5	32.6	33.5	35.3	34.4
55°	47.1	39.8	38.9	38.0	35.3	31.7	29.0	29.0	29.0	28.1	26.2
57.5°	45.2	35.3	34.4	33.5	30.8	27.1	25.3	23.5	22.6	19.9	19.0
60°	47.1	31.7	31.7	29.9	27.1	23.5	20.8	18.1	16.3	14.5	14.5
62.5°	38.0	29.0	28.1	26.2	22.6	19.0	16.3	13.6	12.7	11.8	11.8
65°	30.8	26.2	24.4	21.7	19.0	15.4	12.7	10.9	10.0	10.0	10.9
67.5°	28.1	23.5	20.8	18.1	15.4	11.8	10.0	9.0	9.0	10.0	10.0
69°	26.2	21.7	19.0	16.3	13.6	10.9	9.0	9.0	9.0	9.0	10.0
70°	24.4	20.8	18.1	15.4	11.8	9.0	8.1	8.1	9.0	9.0	10.0
72.5°	19.0	16.3	15.4	12.7	9.0	8.1	7.2	8.1	8.1	9.0	9.0
75°	14.5	11.8	11.8	10.0	7.2	6.3	6.3	7.2	7.2	8.1	8.1
77.5°	10.0	8.1	8.1	7.2	6.3	5.4	5.4	6.3	7.2	7.2	8.1
80°	7.2	6.3	5.4	6.3	5.4	4.5	5.4	6.3	6.3	7.2	7.2
82.5°	5.4	5.4	5.4	5.4	4.5	4.5	5.4	5.4	6.3	7.2	7.2
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.4	5.4	6.3	6.3
87.5°	2.7	2.7	2.7	3.6	3.6	4.5	4.5	4.5	4.5	5.4	5.4
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):

	165°	170°	175°	180°
0°	417.1	417.1	417.1	417.1
2.5°	314.9	314.0	310.4	311.3
5°	220.8	215.4	219.0	218.1
7.5°	162.0	161.1	160.2	162.0
10°	138.4	138.4	137.5	138.4
12.5°	130.3	130.3	130.3	130.3
15°	124.0	124.0	123.1	123.1
17.5°	116.7	116.7	116.7	115.8
20°	109.5	108.6	108.6	108.6
22.5°	101.3	100.4	100.4	100.4
25°	93.2	92.3	92.3	92.3
27.5°	85.1	84.2	83.2	83.2
30°	76.9	76.0	75.1	75.1
32.5°	68.8	67.9	67.0	67.0
35°	61.5	61.5	60.6	59.7
37.5°	55.2	55.2	55.2	55.2
40°	50.7	51.6	51.6	51.6
42.5°	48.0	48.9	49.8	50.7
45°	46.1	48.0	48.9	48.9
47.5°	45.2	46.1	47.1	47.1
50°	41.6	40.7	40.7	40.7
52.5°	33.5	31.7	30.8	29.9
55°	24.4	23.5	21.7	21.7
57.5°	17.2	17.2	16.3	16.3
60°	13.6	13.6	12.7	13.6
62.5°	11.8	11.8	11.8	11.8
65°	10.9	10.9	10.9	10.9
67.5°	10.9	10.9	10.9	10.9
69°	10.0	10.0	10.0	10.0
70°	10.0	10.0	10.0	10.0
72.5°	9.0	9.0	9.0	9.0
75°	8.1	9.0	9.0	9.0
77.5°	8.1	8.1	8.1	8.1
80°	7.2	7.2	8.1	8.1
82.5°	7.2	7.2	7.2	7.2
85°	6.3	6.3	7.2	7.2
87.5°	5.4	5.4	6.3	6.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)