

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: P180838

Luminaire Tested: **ICS-E03-LED-E1-SL4-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180838
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-E03-LED-E1-SL4-HSS
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5494.3 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

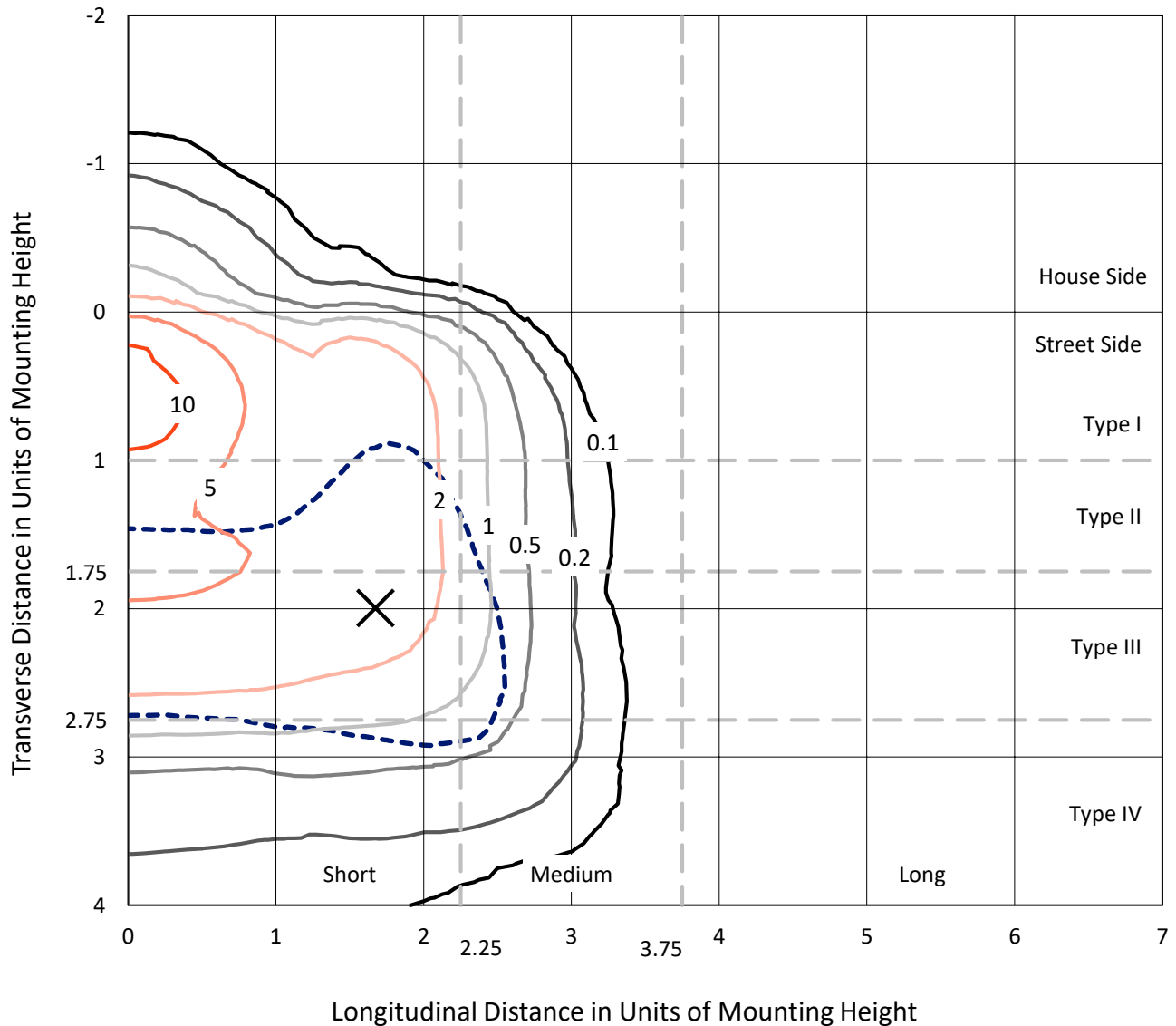
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

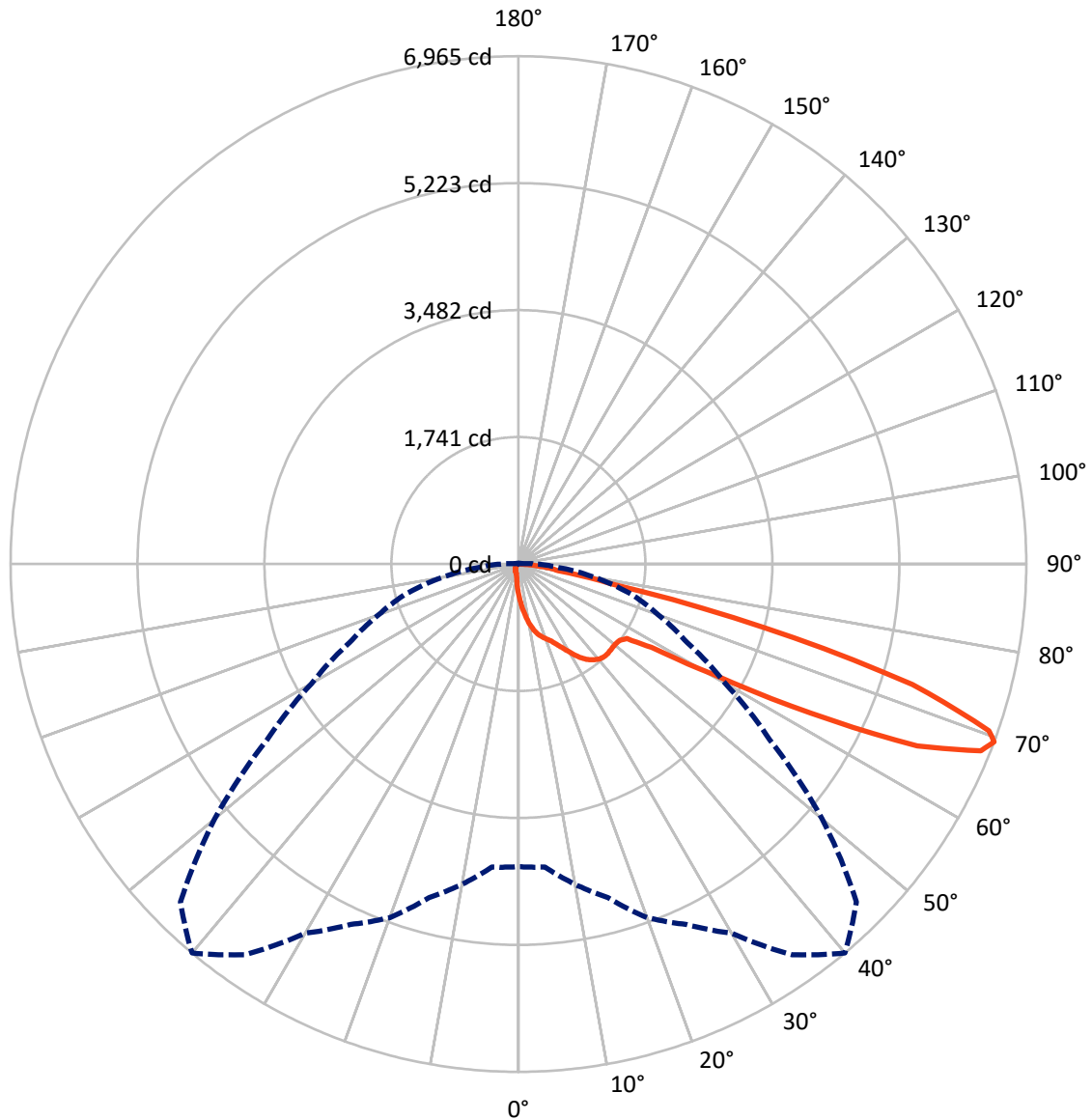


Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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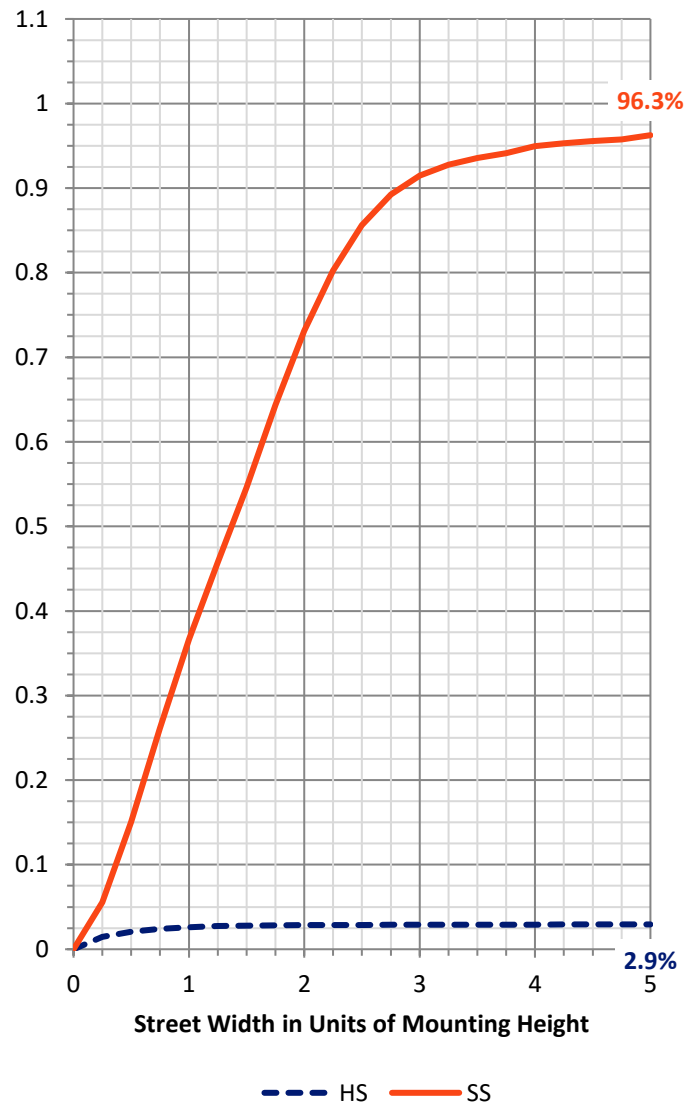
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	163.6	0.0	163.6
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	5330.7	0.0	5330.7
	% Fixture	97.0	0.0	97.0
Total	Lumens	5494.3	0.0	5494.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	0.8
10°-20°	147.0	2.7
20°-30°	281.4	5.1
30°-40°	468.0	8.5
40°-50°	633.3	11.5
50°-60°	990.4	18.0
60°-70°	2036.3	37.1
70°-80°	819.4	14.9
80°-90°	75.8	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°	5494.3	100.0
0°-180°	5494.3	100.0



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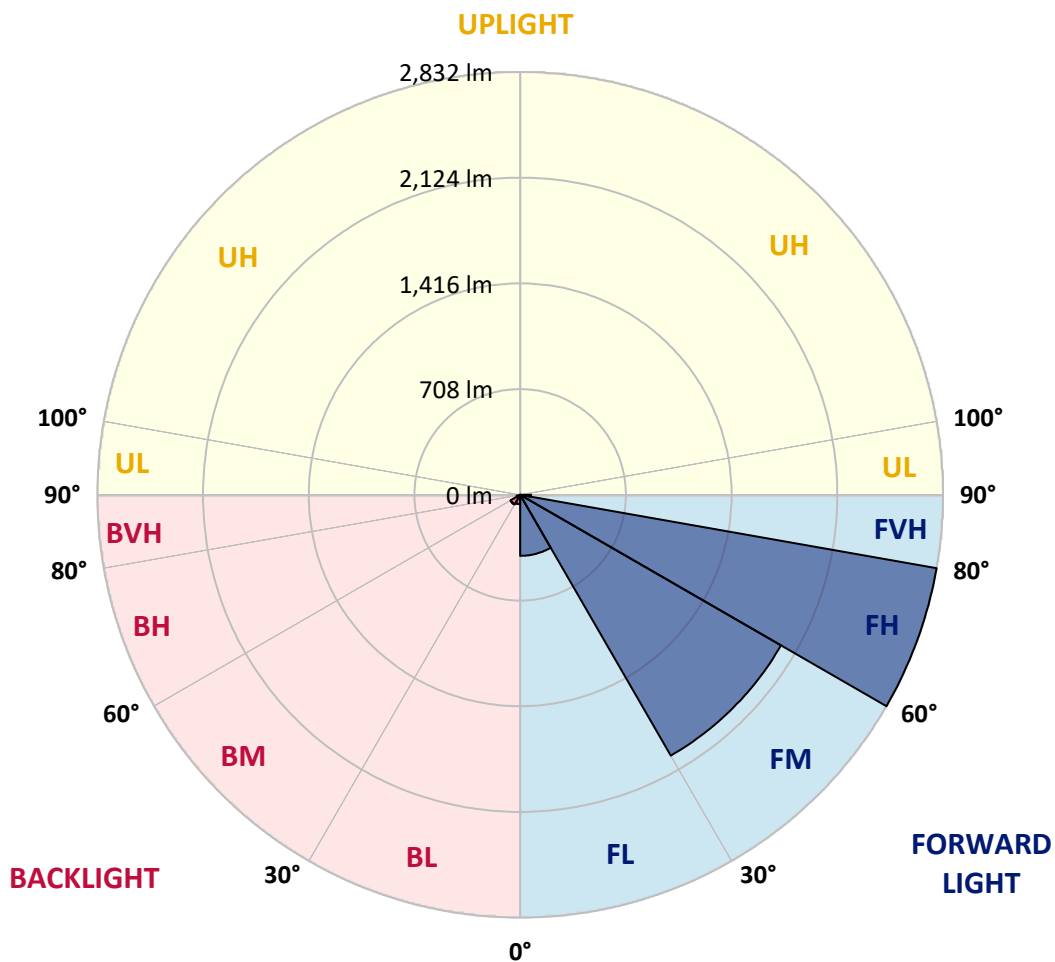
CATALOG NUMBER: ICS-E03-LED-E1-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	408.9	7.4			
FM (30°-60°)	2017.0	36.7			
FH (60°-80°)	2831.8	51.5			G2/5000
FVH (80°-90°)	73.0	1.3			G1/100
BL (0°-30°)	62.2	1.1	B0/110		
BM (30°-60°)	74.7	1.4	B0/220		
BH (60°-80°)	23.9	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°	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9
2.5°	553.5	547.2	540.0	540.0	531.0	531.0	525.6	511.2	509.4	501.3	493.2
5°	706.5	701.1	692.1	684.0	676.8	664.2	655.2	638.1	619.2	601.2	585.0
7.5°	855.9	853.2	837.0	834.3	822.6	801.9	783.9	758.7	726.3	701.1	671.4
10°	994.6	988.3	984.7	969.4	952.3	929.8	901.8	871.2	833.4	793.8	751.5
12.5°	1104.4	1100.8	1084.6	1078.3	1060.3	1037.8	1002.7	963.1	925.3	873.9	824.4
15°	1186.3	1180.0	1169.2	1159.3	1137.7	1117.9	1085.5	1042.3	996.4	940.6	881.1
17.5°	1254.7	1243.0	1240.3	1225.0	1202.5	1179.1	1143.1	1103.5	1049.5	993.7	928.9
20°	1346.5	1330.3	1324.9	1302.4	1276.3	1243.9	1202.5	1153.0	1096.3	1035.1	968.5
22.5°	1454.5	1442.8	1431.1	1411.3	1378.0	1332.1	1271.8	1217.8	1145.8	1078.3	1006.3
25°	1607.5	1597.6	1578.7	1551.7	1510.3	1455.4	1382.5	1303.3	1218.7	1132.3	1047.7
27.5°	1756.0	1747.0	1733.5	1712.8	1666.0	1605.7	1515.7	1414.9	1307.8	1203.4	1109.8
30°	1895.5	1887.4	1873.9	1853.2	1811.8	1752.4	1650.7	1542.7	1409.5	1288.0	1175.5
32.5°	2045.8	2043.1	2027.8	1998.1	1962.1	1882.0	1771.3	1655.2	1520.2	1379.8	1248.4
35°	2215.9	2195.2	2180.8	2151.1	2089.9	2004.4	1874.8	1747.9	1605.7	1461.7	1315.0
37.5°	2359.9	2340.1	2322.1	2284.3	2209.6	2100.7	1954.0	1814.5	1667.8	1521.1	1371.7
40°	2465.2	2455.3	2433.7	2384.2	2300.5	2170.9	2012.5	1860.4	1712.8	1565.2	1417.6
42.5°	2543.5	2528.2	2503.9	2452.6	2353.6	2206.0	2035.9	1879.3	1733.5	1592.2	1447.3
45°	2572.3	2559.7	2537.2	2481.4	2374.3	2215.9	2035.0	1873.9	1734.4	1600.3	1467.1
47.5°	2555.2	2542.6	2522.8	2470.6	2365.3	2204.2	2018.8	1858.6	1725.4	1603.0	1485.1
50°	2498.5	2491.3	2476.0	2431.9	2337.4	2181.7	2004.4	1850.5	1723.6	1616.5	1510.3
52.5°	2493.1	2488.6	2469.7	2425.6	2329.3	2174.5	2002.6	1855.0	1738.9	1633.6	1528.3
55°	3046.7	2982.8	2839.7	2718.1	2518.3	2280.7	2093.5	1927.9	1803.7	1701.1	1627.3
57.5°	4330.1	4234.7	4046.6	3815.3	3356.3	2905.4	2544.4	2283.4	2154.7	2107.9	2135.8
60°	4931.4	4914.3	4884.6	4774.8	4539.8	4151.9	3719.9	3252.8	3065.6	3049.4	3106.1
62.5°	5216.7	5205.9	5214.9	5201.4	5128.5	5015.1	4890.9	4689.3	4503.8	4384.1	4130.3
65°	5348.1	5355.3	5406.6	5447.1	5456.1	5485.8	5576.7	5827.8	6011.4	5702.7	4998.0
67.5°	5014.2	5056.5	5174.4	5322.0	5494.8	5662.2	5932.2	6461.5	6838.6	6475.9	5475.0
69°	4151.0	4171.7	4459.7	4737.9	5160.0	5455.2	5846.7	6540.7	6964.6	6555.1	5437.2
70°	3268.1	3287.0	3595.7	3973.7	4687.5	5067.3	5579.4	6406.5	6846.7	6449.8	5242.8
72.5°	1474.3	1447.3	1556.2	1758.7	2534.5	3137.6	4033.1	5190.6	5648.7	5167.2	3922.4
75°	1029.7	1018.0	1029.7	1030.6	1151.2	1485.1	1873.9	2813.6	3479.6	3002.6	1873.9
77.5°	797.4	789.3	781.2	772.2	786.6	881.1	918.9	998.2	1296.1	1225.9	714.6
80°	630.9	623.7	643.5	637.2	637.2	648.0	640.8	611.1	555.3	514.8	460.8
82.5°	293.4	295.2	295.2	320.4	386.1	450.9	471.6	441.9	392.4	333.9	269.1
85°	27.9	31.5	53.1	81.9	162.9	183.6	184.5	153.0	153.0	120.6	97.2
87.5°	0.0	0.9	0.9	0.9	8.1	22.5	18.9	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°	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9
2.5°	478.8	476.1	465.3	454.5	444.6	433.8	423.9	414.0	403.2	395.1	385.2
5°	559.8	540.0	517.5	495.9	474.3	451.8	428.4	407.7	386.1	366.3	347.4
7.5°	641.7	603.0	572.4	533.7	498.6	463.5	431.1	397.8	367.2	338.4	311.4
10°	711.0	664.2	616.5	567.0	516.6	469.8	424.8	385.2	344.7	309.6	276.3
12.5°	767.7	708.3	649.8	587.7	531.0	471.6	415.8	368.1	320.4	280.8	246.6
15°	819.0	750.6	680.4	608.4	536.4	468.9	406.8	347.4	298.8	253.8	215.1
17.5°	860.4	782.1	702.9	621.9	544.5	465.3	395.1	333.0	276.3	229.5	191.7
20°	896.4	814.5	729.0	638.1	549.9	464.4	385.2	315.0	256.5	207.0	170.1
22.5°	929.8	847.8	756.0	658.8	558.0	463.5	376.2	301.5	239.4	189.9	153.0
25°	967.6	881.1	784.8	680.4	572.4	467.1	370.8	290.7	224.1	173.7	139.5
27.5°	1009.9	918.9	819.0	707.4	591.3	474.3	369.0	279.0	210.6	158.4	128.7
30°	1069.3	964.0	853.2	734.4	608.4	482.4	367.2	271.8	197.1	146.7	117.9
32.5°	1121.5	1008.1	891.0	762.3	627.3	490.5	366.3	261.9	184.5	135.0	109.8
35°	1176.4	1048.6	923.5	789.3	643.5	499.5	365.4	254.7	172.8	123.3	101.7
37.5°	1224.1	1082.8	948.7	812.7	661.5	507.6	366.3	248.4	162.0	113.4	94.5
40°	1264.6	1117.9	976.6	834.3	680.4	520.2	367.2	242.1	151.2	104.4	88.2
42.5°	1300.6	1151.2	1006.3	858.6	702.0	534.6	372.6	236.7	142.2	96.3	81.9
45°	1328.5	1181.8	1038.7	892.8	737.1	558.0	382.5	233.1	133.2	89.1	76.5
47.5°	1357.3	1226.8	1093.6	946.9	788.4	594.9	399.6	232.2	126.0	83.7	72.0
50°	1396.9	1271.8	1142.2	1001.8	835.2	632.7	420.3	233.1	117.0	78.3	67.5
52.5°	1425.7	1317.7	1205.2	1097.2	946.9	747.9	500.4	249.3	112.5	73.8	62.1
55°	1595.8	1576.9	1579.6	1597.6	1481.5	1272.7	837.0	360.0	132.3	83.7	61.2
57.5°	2250.1	2316.7	2355.4	2354.5	2162.8	1793.8	1124.2	462.6	147.6	97.2	72.9
60°	3110.6	3060.2	2989.1	2813.6	2558.8	2047.6	1257.4	497.7	127.8	77.4	66.6
62.5°	3871.1	3575.9	3314.0	3029.6	2695.6	2135.8	1284.4	495.0	111.6	58.5	46.8
65°	4345.4	3814.4	3391.4	3035.0	2641.6	2062.0	1215.1	454.5	94.5	47.7	38.7
67.5°	4458.8	3685.7	3087.2	2632.6	2206.9	1604.8	891.9	342.0	73.8	39.6	34.2
69°	4211.3	3276.2	2557.9	2042.2	1605.7	1064.8	551.7	216.0	56.7	36.0	31.5
70°	3873.8	2849.6	2083.6	1639.0	1189.0	747.9	386.1	152.1	45.9	33.3	28.8
72.5°	2492.2	1496.8	1024.3	712.8	490.5	297.9	151.2	68.4	35.1	27.9	23.4
75°	966.7	553.5	401.4	305.1	238.5	165.6	91.8	44.1	29.7	23.4	18.0
77.5°	476.1	364.5	297.9	204.3	118.8	73.8	49.5	34.2	24.3	17.1	11.7
80°	376.2	250.2	149.4	92.7	70.2	53.1	37.8	27.9	18.0	10.8	8.1
82.5°	192.6	105.3	77.4	63.0	52.2	41.4	30.6	19.8	11.7	7.2	6.3
85°	60.3	44.1	39.6	38.7	36.0	29.7	21.6	12.6	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°	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9
2.5°	378.0	367.2	357.3	351.0	339.3	334.8	330.3	328.5	320.4	322.2	315.0
5°	330.3	311.4	297.0	282.6	269.1	259.2	251.1	241.2	233.1	229.5	222.3
7.5°	287.1	262.8	243.9	228.6	212.4	199.8	189.0	181.8	174.6	167.4	163.8
10°	249.3	223.2	201.6	186.3	171.0	160.2	152.1	146.7	142.2	139.5	138.6
12.5°	214.2	189.0	169.2	155.7	144.0	138.6	135.0	132.3	131.4	130.5	130.5
15°	187.2	162.0	146.7	136.8	131.4	128.7	127.8	126.0	124.2	123.3	123.3
17.5°	162.0	143.1	132.3	126.9	124.2	122.4	120.6	118.8	117.0	116.1	116.1
20°	144.9	129.6	124.2	120.6	117.9	116.1	113.4	111.6	110.7	109.8	108.9
22.5°	131.4	121.5	117.9	115.2	111.6	108.9	107.1	105.3	103.5	102.6	101.7
25°	121.5	115.2	112.5	108.9	105.3	102.6	99.9	97.2	95.4	94.5	92.7
27.5°	114.3	109.8	106.2	101.7	98.1	95.4	92.7	90.0	88.2	86.4	85.5
30°	108.0	103.5	99.0	95.4	90.9	88.2	84.6	81.9	81.0	79.2	77.4
32.5°	101.7	97.2	92.7	88.2	83.7	80.1	78.3	74.7	72.9	72.0	70.2
35°	94.5	90.0	84.6	81.0	76.5	72.9	70.2	67.5	65.7	63.9	63.0
37.5°	88.2	82.8	77.4	72.9	69.3	65.7	63.0	60.3	58.5	56.7	55.8
40°	81.0	75.6	70.2	65.7	62.1	59.4	56.7	54.0	52.2	51.3	51.3
42.5°	74.7	68.4	63.0	59.4	56.7	53.1	50.4	47.7	46.8	45.9	46.8
45°	68.4	62.1	57.6	54.0	51.3	47.7	45.0	43.2	42.3	43.2	44.1
47.5°	63.0	56.7	52.2	49.5	46.8	44.1	41.4	39.6	39.6	41.4	43.2
50°	57.6	51.3	47.7	45.9	43.2	40.5	36.9	36.0	36.9	38.7	40.5
52.5°	52.2	45.0	42.3	41.4	38.7	36.0	33.3	32.4	33.3	35.1	34.2
55°	46.8	39.6	38.7	37.8	35.1	31.5	28.8	28.8	28.8	27.9	26.1
57.5°	45.0	35.1	34.2	33.3	30.6	27.0	25.2	23.4	22.5	19.8	18.9
60°	46.8	31.5	31.5	29.7	27.0	23.4	20.7	18.0	16.2	14.4	14.4
62.5°	37.8	28.8	27.9	26.1	22.5	18.9	16.2	13.5	12.6	11.7	11.7
65°	30.6	26.1	24.3	21.6	18.9	15.3	12.6	10.8	9.9	9.9	10.8
67.5°	27.9	23.4	20.7	18.0	15.3	11.7	9.9	9.0	9.0	9.9	9.9
69°	26.1	21.6	18.9	16.2	13.5	10.8	9.0	9.0	9.0	9.0	9.9
70°	24.3	20.7	18.0	15.3	11.7	9.0	8.1	8.1	9.0	9.0	9.9
72.5°	18.9	16.2	15.3	12.6	9.0	8.1	7.2	8.1	8.1	9.0	9.0
75°	14.4	11.7	11.7	9.9	7.2	6.3	6.3	7.2	7.2	8.1	8.1
77.5°	9.9	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°	414.9	414.9	414.9	414.9
2.5°	313.2	312.3	308.7	309.6
5°	219.6	214.2	217.8	216.9
7.5°	161.1	160.2	159.3	161.1
10°	137.7	137.7	136.8	137.7
12.5°	129.6	129.6	129.6	129.6
15°	123.3	123.3	122.4	122.4
17.5°	116.1	116.1	116.1	115.2
20°	108.9	108.0	108.0	108.0
22.5°	100.8	99.9	99.9	99.9
25°	92.7	91.8	91.8	91.8
27.5°	84.6	83.7	82.8	82.8
30°	76.5	75.6	74.7	74.7
32.5°	68.4	67.5	66.6	66.6
35°	61.2	61.2	60.3	59.4
37.5°	54.9	54.9	54.9	54.9
40°	50.4	51.3	51.3	51.3
42.5°	47.7	48.6	49.5	50.4
45°	45.9	47.7	48.6	48.6
47.5°	45.0	45.9	46.8	46.8
50°	41.4	40.5	40.5	40.5
52.5°	33.3	31.5	30.6	29.7
55°	24.3	23.4	21.6	21.6
57.5°	17.1	17.1	16.2	16.2
60°	13.5	13.5	12.6	13.5
62.5°	11.7	11.7	11.7	11.7
65°	10.8	10.8	10.8	10.8
67.5°	10.8	10.8	10.8	10.8
69°	9.9	9.9	9.9	9.9
70°	9.9	9.9	9.9	9.9
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)