

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: P180843

Luminaire Tested: **ICS-F03-LED-E1-SL4-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180843
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-F03-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: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4535.7 lumens
Efficiency: N/A
Efficacy: 57.9 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

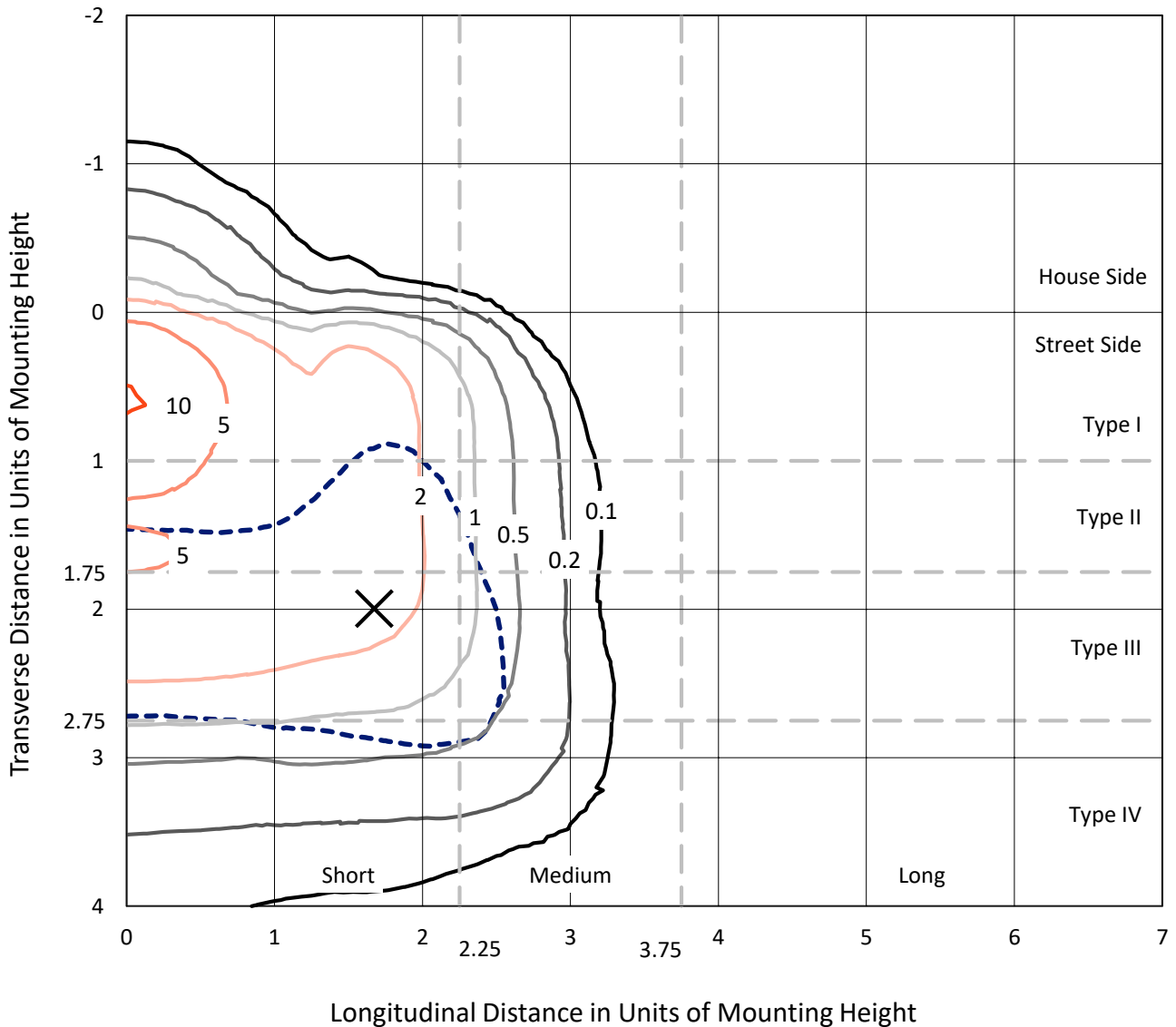
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

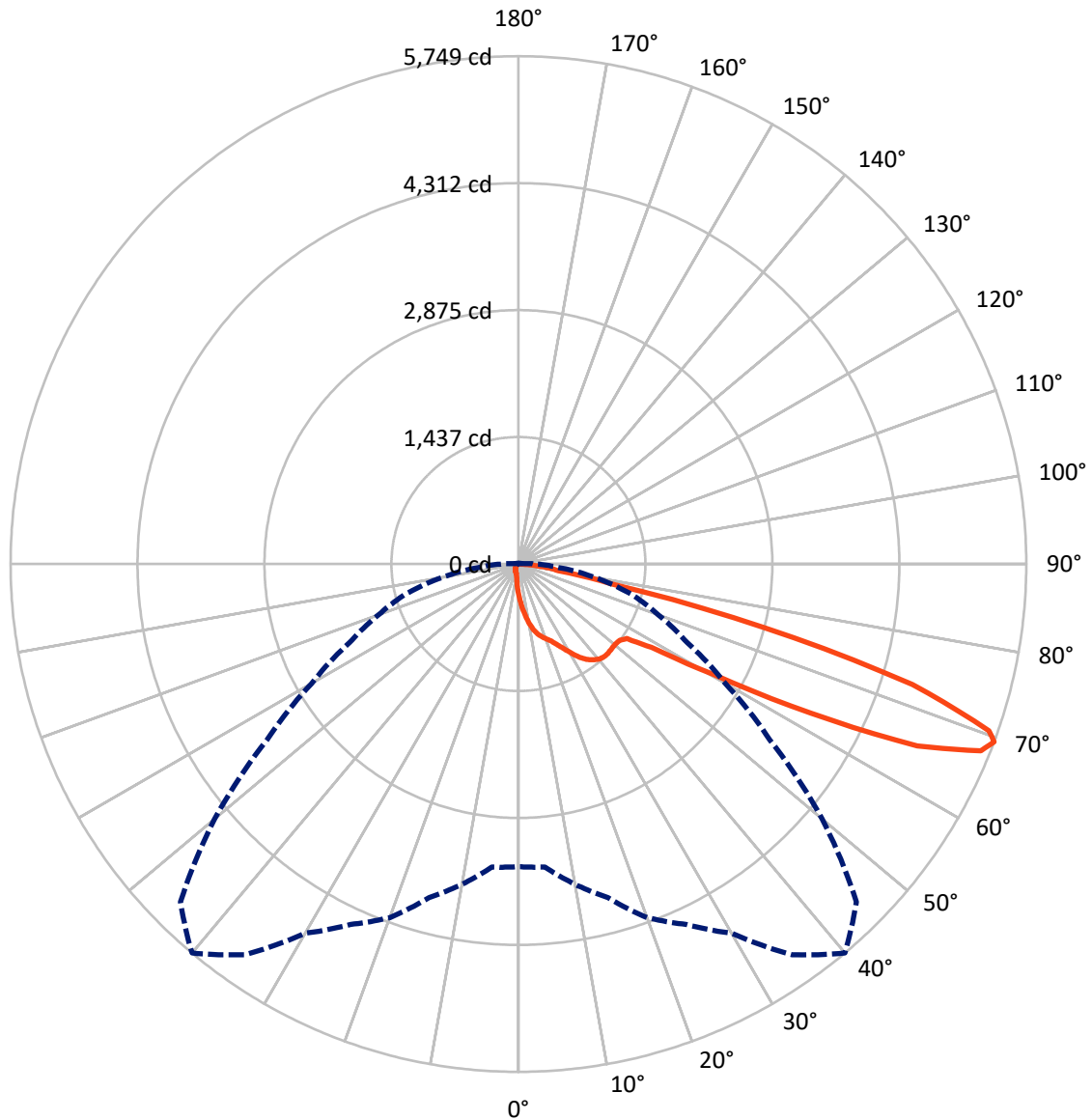


Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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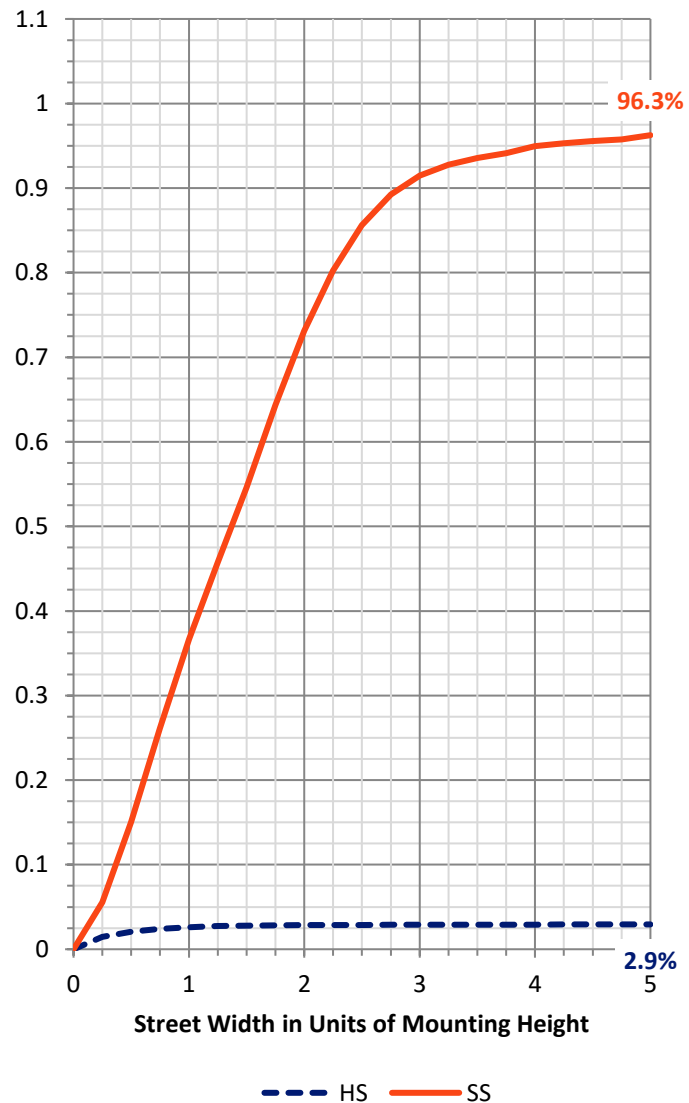
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	135.1	0.0	135.1
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	4400.6	0.0	4400.6
	% Fixture	97.0	0.0	97.0
Total	Lumens	4535.7	0.0	4535.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.2	0.8
10°-20°	121.4	2.7
20°-30°	232.3	5.1
30°-40°	386.4	8.5
40°-50°	522.8	11.5
50°-60°	817.6	18.0
60°-70°	1681.0	37.1
70°-80°	676.4	14.9
80°-90°	62.6	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°	4535.7	100.0
0°-180°	4535.7	100.0



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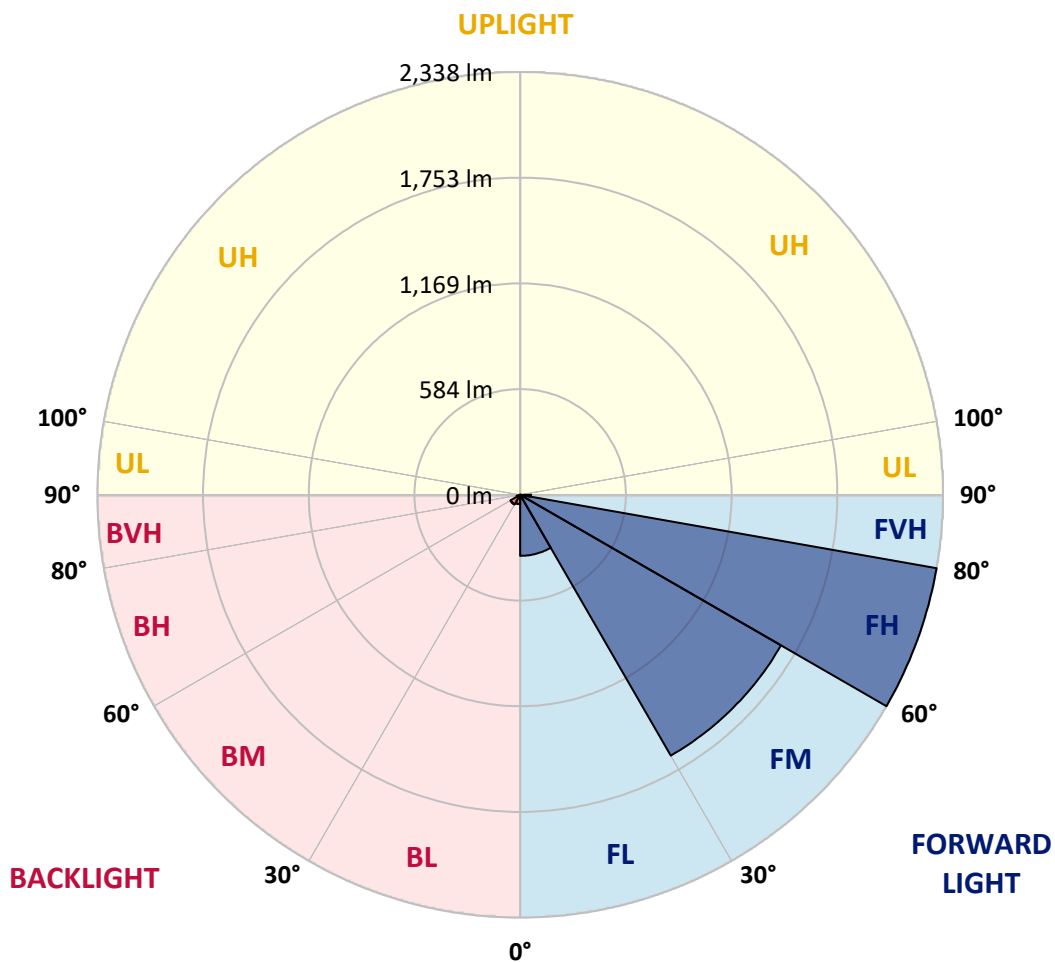
CATALOG NUMBER: ICS-F03-LED-E1-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	337.5	7.4			
FM (30°-60°)	1665.1	36.7			
FH (60°-80°)	2337.7	51.5			G2/5000
FVH (80°-90°)	60.2	1.3			G1/100
BL (0°-30°)	51.4	1.1	B0/110		
BM (30°-60°)	61.7	1.4	B0/220		
BH (60°-80°)	19.7	0.4	B0/110		G0/110
BVH (80°-90°)	2.3	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°	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5
2.5°	457.0	451.8	445.8	445.8	438.4	438.4	433.9	422.0	420.5	413.9	407.2
5°	583.3	578.8	571.4	564.7	558.7	548.3	540.9	526.8	511.2	496.3	483.0
7.5°	706.6	704.4	691.0	688.8	679.1	662.0	647.2	626.4	599.6	578.8	554.3
10°	821.0	815.8	812.9	800.2	786.1	767.5	744.5	719.2	688.0	655.3	620.4
12.5°	911.7	908.7	895.3	890.1	875.3	856.7	827.7	795.0	763.8	721.5	680.6
15°	979.3	974.1	965.2	957.0	939.2	922.8	896.1	860.4	822.5	776.4	727.4
17.5°	1035.8	1026.1	1023.9	1011.2	992.7	973.3	943.6	910.9	866.4	820.3	766.8
20°	1111.5	1098.2	1093.7	1075.1	1053.6	1026.8	992.7	951.8	905.0	854.5	799.5
22.5°	1200.7	1191.0	1181.4	1165.0	1137.6	1099.7	1049.9	1005.3	945.9	890.1	830.7
25°	1327.0	1318.8	1303.2	1281.0	1246.8	1201.5	1141.3	1075.9	1006.0	934.7	864.9
27.5°	1449.6	1442.2	1431.0	1414.0	1375.3	1325.5	1251.2	1168.0	1079.6	993.4	916.1
30°	1564.8	1558.1	1547.0	1529.9	1495.7	1446.6	1362.7	1273.5	1163.6	1063.3	970.4
32.5°	1688.9	1686.6	1674.0	1649.5	1619.8	1553.6	1462.2	1366.4	1254.9	1139.0	1030.6
35°	1829.3	1812.2	1800.3	1775.8	1725.3	1654.7	1547.7	1442.9	1325.5	1206.7	1085.5
37.5°	1948.2	1931.8	1917.0	1885.8	1824.1	1734.2	1613.1	1497.9	1376.8	1255.7	1132.4
40°	2035.1	2026.9	2009.1	1968.2	1899.1	1792.1	1661.4	1535.8	1414.0	1292.1	1170.2
42.5°	2099.8	2087.1	2067.1	2024.7	1943.0	1821.1	1680.7	1551.4	1431.0	1314.4	1194.8
45°	2123.5	2113.1	2094.6	2048.5	1960.1	1829.3	1680.0	1547.0	1431.8	1321.1	1211.1
47.5°	2109.4	2099.0	2082.7	2039.6	1952.6	1819.6	1666.6	1534.3	1424.4	1323.3	1226.0
50°	2062.6	2056.7	2044.0	2007.6	1929.6	1801.1	1654.7	1527.6	1422.9	1334.5	1246.8
52.5°	2058.1	2054.4	2038.8	2002.4	1922.9	1795.1	1653.2	1531.3	1435.5	1348.6	1261.6
55°	2515.1	2462.3	2344.2	2243.9	2078.9	1882.8	1728.2	1591.5	1489.0	1404.3	1343.4
57.5°	3574.6	3495.9	3340.6	3149.6	2770.7	2398.4	2100.5	1885.0	1778.8	1740.1	1763.2
60°	4071.0	4056.9	4032.3	3941.7	3747.8	3427.5	3070.9	2685.2	2530.7	2517.3	2564.1
62.5°	4306.5	4297.6	4305.0	4293.9	4233.7	4140.1	4037.5	3871.1	3718.0	3619.2	3409.7
65°	4415.0	4420.9	4463.3	4496.7	4504.1	4528.7	4603.7	4811.0	4962.6	4707.7	4126.0
67.5°	4139.3	4174.2	4271.6	4393.4	4536.1	4674.3	4897.2	5334.1	5645.4	5346.0	4519.7
69°	3426.8	3443.9	3681.6	3911.2	4259.7	4503.4	4826.6	5399.5	5749.4	5411.4	4488.5
70°	2697.9	2713.5	2968.3	3280.4	3869.6	4183.2	4605.9	5288.8	5652.1	5324.4	4328.0
72.5°	1217.1	1194.8	1284.7	1451.8	2092.3	2590.1	3329.4	4285.0	4663.1	4265.6	3238.0
75°	850.0	840.3	850.0	850.7	950.3	1226.0	1547.0	2322.7	2872.5	2478.7	1547.0
77.5°	658.3	651.6	644.9	637.5	649.4	727.4	758.6	824.0	1069.9	1012.0	590.0
80°	520.9	514.9	531.3	526.1	526.1	535.0	529.0	504.5	458.4	425.0	380.4
82.5°	242.2	243.7	243.7	264.5	318.8	372.2	389.3	364.8	324.0	275.7	222.2
85°	23.0	26.0	43.8	67.6	134.5	151.6	152.3	126.3	126.3	99.6	80.2
87.5°	0.0	0.7	0.7	0.7	6.7	18.6	15.6	4.5	2.2	2.2	3.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5
2.5°	395.3	393.1	384.1	375.2	367.0	358.1	350.0	341.8	332.9	326.2	318.0
5°	462.2	445.8	427.2	409.4	391.6	373.0	353.7	336.6	318.8	302.4	286.8
7.5°	529.8	497.8	472.6	440.6	411.6	382.7	355.9	328.4	303.1	279.4	257.1
10°	587.0	548.3	509.0	468.1	426.5	387.9	350.7	318.0	284.6	255.6	228.1
12.5°	633.8	584.8	536.5	485.2	438.4	389.3	343.3	303.9	264.5	231.8	203.6
15°	676.1	619.7	561.7	502.3	442.8	387.1	335.8	286.8	246.7	209.5	177.6
17.5°	710.3	645.7	580.3	513.4	449.5	384.1	326.2	274.9	228.1	189.5	158.3
20°	740.0	672.4	601.8	526.8	454.0	383.4	318.0	260.1	211.8	170.9	140.4
22.5°	767.5	699.9	624.1	543.9	460.7	382.7	310.6	248.9	197.6	156.8	126.3
25°	798.7	727.4	647.9	561.7	472.6	385.6	306.1	240.0	185.0	143.4	115.2
27.5°	833.7	758.6	676.1	584.0	488.2	391.6	304.6	230.3	173.9	130.8	106.3
30°	882.7	795.8	704.4	606.3	502.3	398.3	303.1	224.4	162.7	121.1	97.3
32.5°	925.8	832.2	735.6	629.3	517.9	404.9	302.4	216.2	152.3	111.5	90.6
35°	971.1	865.6	762.3	651.6	531.3	412.4	301.7	210.3	142.7	101.8	84.0
37.5°	1010.5	893.8	783.1	670.9	546.1	419.1	302.4	205.1	133.7	93.6	78.0
40°	1043.9	922.8	806.2	688.8	561.7	429.5	303.1	199.9	124.8	86.2	72.8
42.5°	1073.7	950.3	830.7	708.8	579.6	441.3	307.6	195.4	117.4	79.5	67.6
45°	1096.7	975.6	857.4	737.1	608.5	460.7	315.8	192.4	110.0	73.6	63.2
47.5°	1120.5	1012.7	902.8	781.6	650.9	491.1	329.9	191.7	104.0	69.1	59.4
50°	1153.2	1049.9	942.9	827.0	689.5	522.3	347.0	192.4	96.6	64.6	55.7
52.5°	1176.9	1087.8	994.9	905.7	781.6	617.4	413.1	205.8	92.9	60.9	51.3
55°	1317.4	1301.8	1304.0	1318.8	1223.0	1050.6	691.0	297.2	109.2	69.1	50.5
57.5°	1857.5	1912.5	1944.5	1943.7	1785.5	1480.8	928.0	381.9	121.9	80.2	60.2
60°	2567.9	2526.2	2467.5	2322.7	2112.4	1690.4	1038.0	410.9	105.5	63.9	55.0
62.5°	3195.7	2952.0	2735.8	2501.0	2225.3	1763.2	1060.3	408.7	92.1	48.3	38.6
65°	3587.3	3148.9	2799.7	2505.4	2180.7	1702.2	1003.1	375.2	78.0	39.4	31.9
67.5°	3680.9	3042.6	2548.5	2173.3	1821.9	1324.8	736.3	282.3	60.9	32.7	28.2
69°	3476.6	2704.6	2111.6	1685.9	1325.5	879.0	455.5	178.3	46.8	29.7	26.0
70°	3197.9	2352.4	1720.1	1353.0	981.5	617.4	318.8	125.6	37.9	27.5	23.8
72.5°	2057.4	1235.6	845.5	588.5	404.9	245.9	124.8	56.5	29.0	23.0	19.3
75°	798.0	457.0	331.4	251.9	196.9	136.7	75.8	36.4	24.5	19.3	14.9
77.5°	393.1	300.9	245.9	168.7	98.1	60.9	40.9	28.2	20.1	14.1	9.7
80°	310.6	206.6	123.3	76.5	58.0	43.8	31.2	23.0	14.9	8.9	6.7
82.5°	159.0	86.9	63.9	52.0	43.1	34.2	25.3	16.3	9.7	5.9	5.2
85°	49.8	36.4	32.7	31.9	29.7	24.5	17.8	10.4	5.9	3.7	3.7
87.5°	3.7	5.2	6.7	5.2	5.9	5.2	6.7	4.5	3.0	3.0	2.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5
2.5°	312.1	303.1	295.0	289.8	280.1	276.4	272.7	271.2	264.5	266.0	260.1
5°	272.7	257.1	245.2	233.3	222.2	214.0	207.3	199.1	192.4	189.5	183.5
7.5°	237.0	217.0	201.4	188.7	175.4	164.9	156.0	150.1	144.1	138.2	135.2
10°	205.8	184.3	166.4	153.8	141.2	132.3	125.6	121.1	117.4	115.2	114.4
12.5°	176.8	156.0	139.7	128.5	118.9	114.4	111.5	109.2	108.5	107.7	107.7
15°	154.5	133.7	121.1	112.9	108.5	106.3	105.5	104.0	102.5	101.8	101.8
17.5°	133.7	118.1	109.2	104.8	102.5	101.0	99.6	98.1	96.6	95.8	95.8
20°	119.6	107.0	102.5	99.6	97.3	95.8	93.6	92.1	91.4	90.6	89.9
22.5°	108.5	100.3	97.3	95.1	92.1	89.9	88.4	86.9	85.4	84.7	84.0
25°	100.3	95.1	92.9	89.9	86.9	84.7	82.5	80.2	78.8	78.0	76.5
27.5°	94.4	90.6	87.7	84.0	81.0	78.8	76.5	74.3	72.8	71.3	70.6
30°	89.2	85.4	81.7	78.8	75.0	72.8	69.8	67.6	66.9	65.4	63.9
32.5°	84.0	80.2	76.5	72.8	69.1	66.1	64.6	61.7	60.2	59.4	58.0
35°	78.0	74.3	69.8	66.9	63.2	60.2	58.0	55.7	54.2	52.8	52.0
37.5°	72.8	68.4	63.9	60.2	57.2	54.2	52.0	49.8	48.3	46.8	46.1
40°	66.9	62.4	58.0	54.2	51.3	49.0	46.8	44.6	43.1	42.4	42.4
42.5°	61.7	56.5	52.0	49.0	46.8	43.8	41.6	39.4	38.6	37.9	38.6
45°	56.5	51.3	47.6	44.6	42.4	39.4	37.2	35.7	34.9	35.7	36.4
47.5°	52.0	46.8	43.1	40.9	38.6	36.4	34.2	32.7	32.7	34.2	35.7
50°	47.6	42.4	39.4	37.9	35.7	33.4	30.5	29.7	30.5	31.9	33.4
52.5°	43.1	37.2	34.9	34.2	31.9	29.7	27.5	26.7	27.5	29.0	28.2
55°	38.6	32.7	31.9	31.2	29.0	26.0	23.8	23.8	23.8	23.0	21.5
57.5°	37.2	29.0	28.2	27.5	25.3	22.3	20.8	19.3	18.6	16.3	15.6
60°	38.6	26.0	26.0	24.5	22.3	19.3	17.1	14.9	13.4	11.9	11.9
62.5°	31.2	23.8	23.0	21.5	18.6	15.6	13.4	11.1	10.4	9.7	9.7
65°	25.3	21.5	20.1	17.8	15.6	12.6	10.4	8.9	8.2	8.2	8.9
67.5°	23.0	19.3	17.1	14.9	12.6	9.7	8.2	7.4	7.4	8.2	8.2
69°	21.5	17.8	15.6	13.4	11.1	8.9	7.4	7.4	7.4	7.4	8.2
70°	20.1	17.1	14.9	12.6	9.7	7.4	6.7	6.7	7.4	7.4	8.2
72.5°	15.6	13.4	12.6	10.4	7.4	6.7	5.9	6.7	6.7	7.4	7.4
75°	11.9	9.7	9.7	8.2	5.9	5.2	5.2	5.9	5.9	6.7	6.7
77.5°	8.2	6.7	6.7	5.9	5.2	4.5	4.5	5.2	5.9	5.9	6.7
80°	5.9	5.2	4.5	5.2	4.5	3.7	4.5	5.2	5.2	5.9	5.9
82.5°	4.5	4.5	4.5	4.5	3.7	3.7	4.5	4.5	5.2	5.9	5.9
85°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.5	4.5	5.2	5.2
87.5°	2.2	2.2	2.2	3.0	3.0	3.7	3.7	3.7	3.7	4.5	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):

	165°	170°	175°	180°
0°	342.5	342.5	342.5	342.5
2.5°	258.6	257.8	254.9	255.6
5°	181.3	176.8	179.8	179.1
7.5°	133.0	132.3	131.5	133.0
10°	113.7	113.7	112.9	113.7
12.5°	107.0	107.0	107.0	107.0
15°	101.8	101.8	101.0	101.0
17.5°	95.8	95.8	95.8	95.1
20°	89.9	89.2	89.2	89.2
22.5°	83.2	82.5	82.5	82.5
25°	76.5	75.8	75.8	75.8
27.5°	69.8	69.1	68.4	68.4
30°	63.2	62.4	61.7	61.7
32.5°	56.5	55.7	55.0	55.0
35°	50.5	50.5	49.8	49.0
37.5°	45.3	45.3	45.3	45.3
40°	41.6	42.4	42.4	42.4
42.5°	39.4	40.1	40.9	41.6
45°	37.9	39.4	40.1	40.1
47.5°	37.2	37.9	38.6	38.6
50°	34.2	33.4	33.4	33.4
52.5°	27.5	26.0	25.3	24.5
55°	20.1	19.3	17.8	17.8
57.5°	14.1	14.1	13.4	13.4
60°	11.1	11.1	10.4	11.1
62.5°	9.7	9.7	9.7	9.7
65°	8.9	8.9	8.9	8.9
67.5°	8.9	8.9	8.9	8.9
69°	8.2	8.2	8.2	8.2
70°	8.2	8.2	8.2	8.2
72.5°	7.4	7.4	7.4	7.4
75°	6.7	7.4	7.4	7.4
77.5°	6.7	6.7	6.7	6.7
80°	5.9	5.9	6.7	6.7
82.5°	5.9	5.9	5.9	5.9
85°	5.2	5.2	5.9	5.9
87.5°	4.5	4.5	5.2	5.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)