

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: P181604

Luminaire Tested: **ICS-F03-LED-E1-T4-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181604
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33725)
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-T4-HSS
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4311 lumens
Efficiency: N/A
Efficacy: 55.1 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): 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

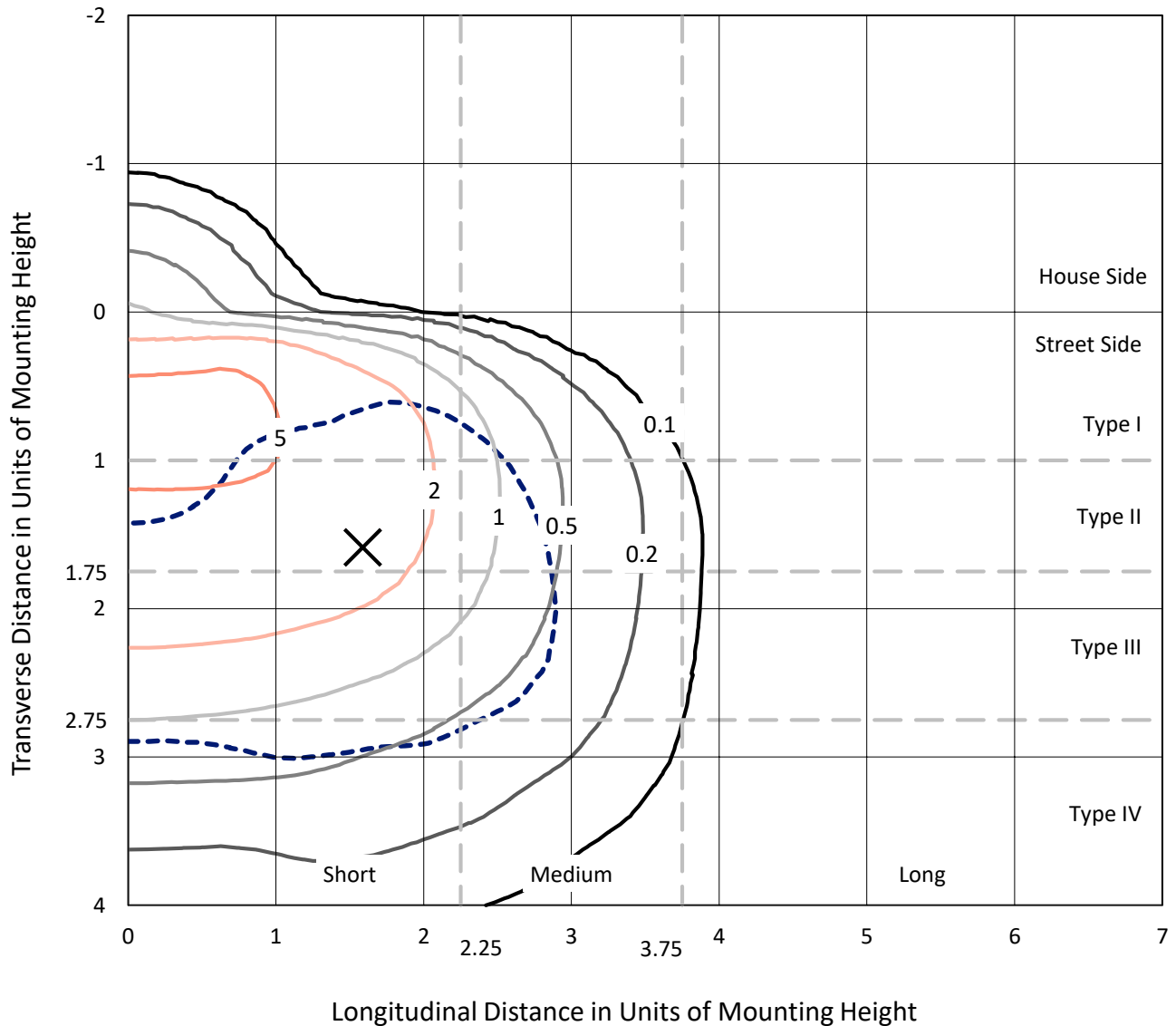


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

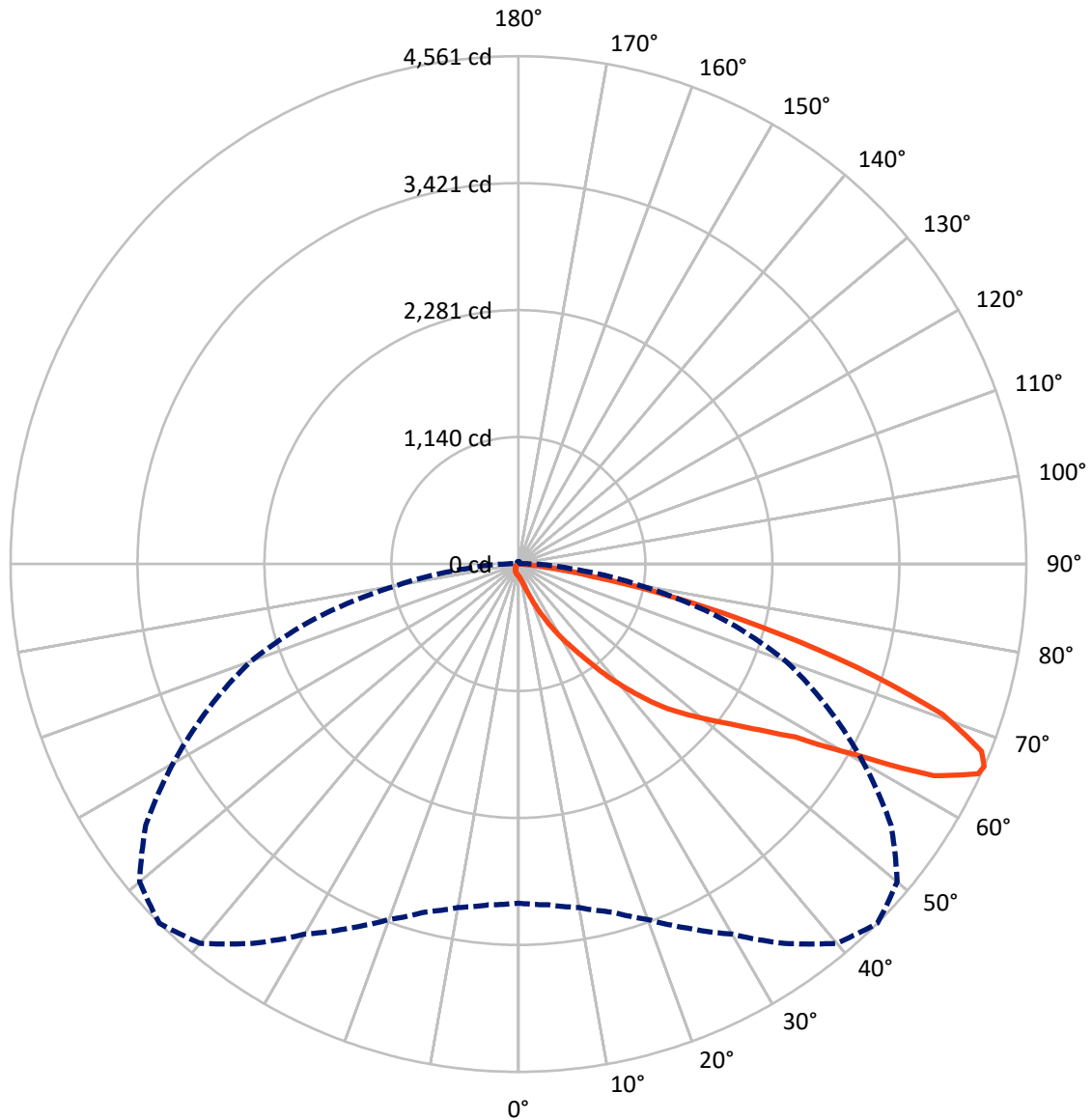


Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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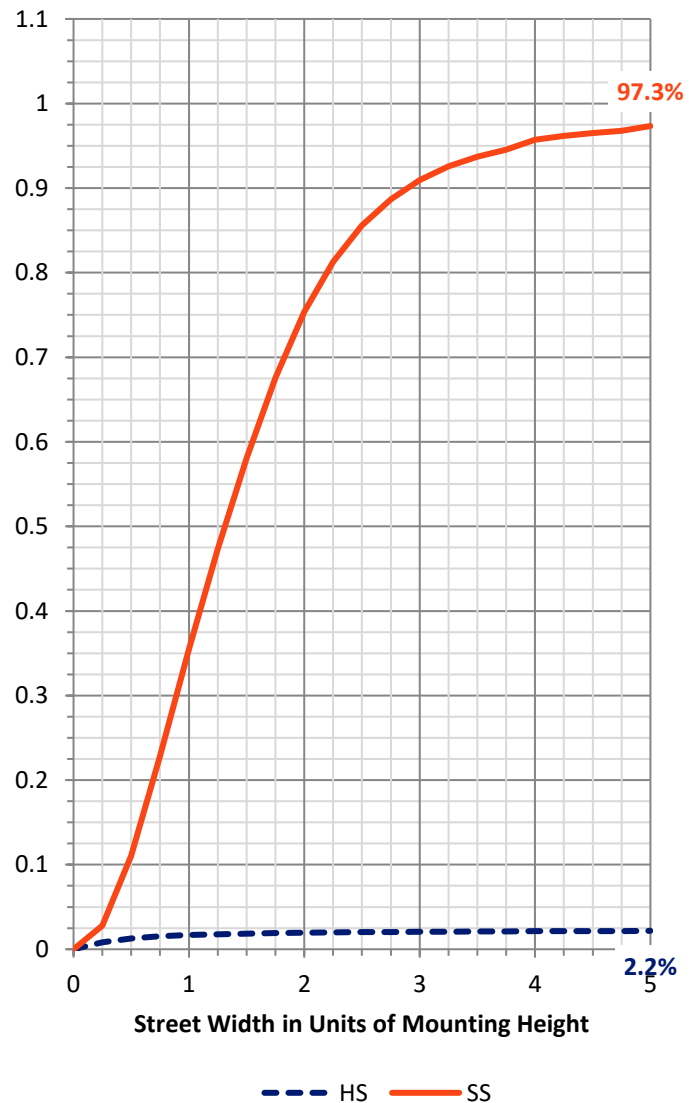
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	97.7	0.0	97.7
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	4213.3	0.0	4213.3
	% Fixture	97.7	0.0	97.7
Total	Lumens	4311.0	0.0	4311.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.8	0.3
10°-20°	44.0	1.0
20°-30°	128.8	3.0
30°-40°	300.9	7.0
40°-50°	565.1	13.1
50°-60°	936.5	21.7
60°-70°	1486.7	34.5
70°-80°	768.9	17.8
80°-90°	69.4	1.6
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°	4311.0	100.0
0°-180°	4311.0	100.0



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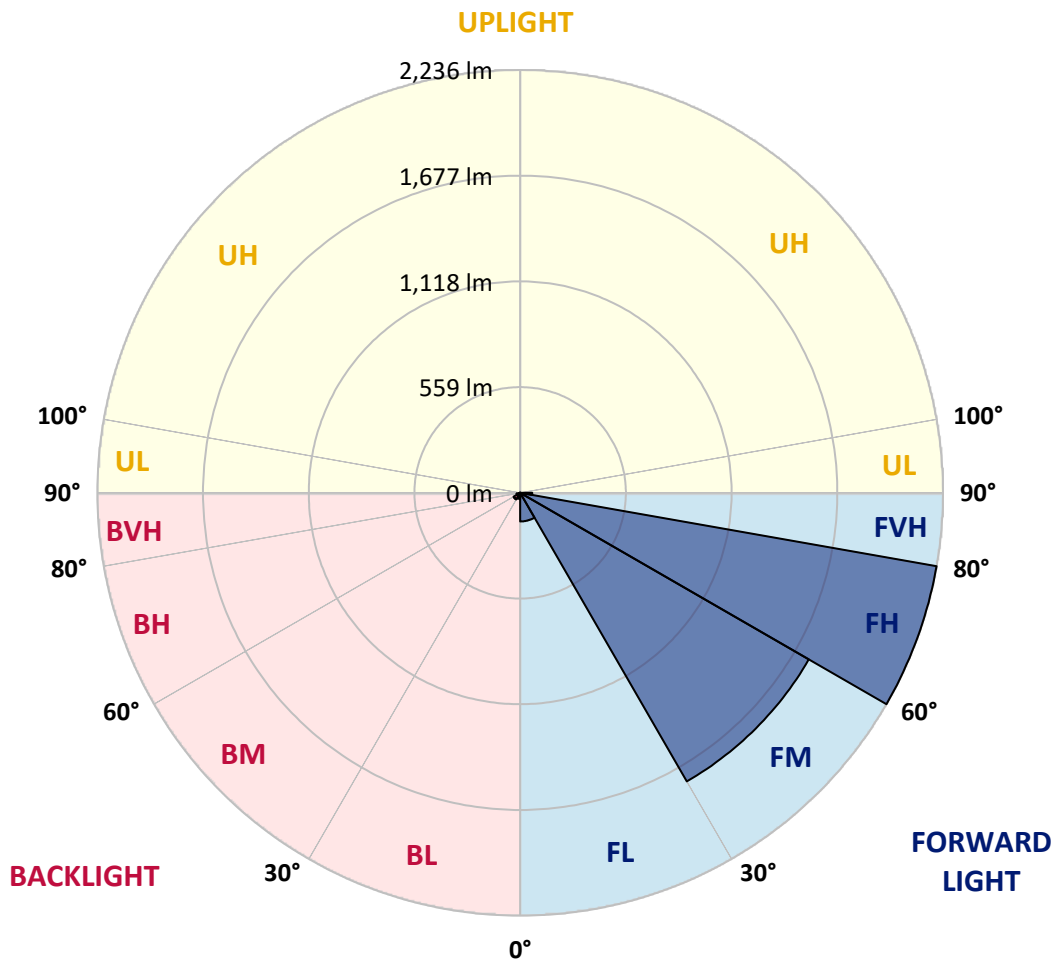
CATALOG NUMBER: ICS-F03-LED-E1-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	151.7	3.5			
FM	(30°-60°)	1761.9	40.9			
FH	(60°-80°)	2235.8	51.9			G2/5000
FVH	(80°-90°)	64.0	1.5			G1/100
BL	(0°-30°)	31.9	0.7	B0/110		
BM	(30°-60°)	40.5	0.9	B0/220		
BH	(60°-80°)	19.8	0.5	B0/110		G0/110
BVH	(80°-90°)	5.5	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°	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7
2.5°	116.7	116.7	116.7	116.7	115.9	115.2	114.4	113.7	112.9	112.9	112.2
5°	132.3	133.0	132.3	131.5	130.0	129.3	127.1	125.6	123.3	122.6	120.4
7.5°	153.8	153.1	153.8	151.6	148.6	147.9	144.9	141.2	138.2	133.7	130.8
10°	185.0	184.3	185.0	180.6	176.1	172.4	167.2	162.7	156.0	150.8	144.9
12.5°	234.8	234.8	233.3	227.4	221.4	213.2	205.1	195.4	183.5	173.1	163.5
15°	311.3	307.6	300.9	297.2	286.8	274.2	265.3	245.9	228.8	212.5	193.2
17.5°	403.5	396.0	390.8	382.7	369.3	352.9	338.1	309.8	292.7	266.0	238.5
20°	509.0	500.0	498.6	485.9	471.8	454.0	432.4	399.0	370.0	336.6	297.9
22.5°	616.7	618.2	612.2	603.3	589.2	568.4	535.0	504.5	468.8	426.5	376.7
25°	737.1	736.3	731.1	720.7	710.3	684.3	657.6	628.6	586.2	532.0	472.6
27.5°	850.0	849.3	836.6	837.4	817.3	807.7	781.6	750.4	699.2	653.9	589.2
30°	968.1	960.7	952.5	946.6	932.5	915.4	902.0	864.9	826.2	772.7	720.0
32.5°	1087.8	1079.6	1081.8	1074.4	1063.3	1046.2	1026.1	995.6	954.0	902.0	853.0
35°	1234.1	1230.4	1224.5	1226.7	1224.5	1211.9	1194.8	1154.6	1109.3	1059.5	1009.0
37.5°	1342.6	1338.9	1342.6	1358.2	1361.9	1370.1	1357.5	1337.4	1304.7	1250.5	1197.7
40°	1442.9	1443.7	1460.8	1480.1	1493.5	1520.2	1524.7	1516.5	1490.5	1440.7	1371.6
42.5°	1532.8	1544.0	1559.6	1591.5	1620.5	1658.4	1686.6	1691.1	1671.8	1639.1	1569.2
45°	1633.1	1642.8	1667.3	1705.2	1745.3	1792.1	1837.5	1861.2	1859.8	1836.7	1761.7
47.5°	1745.3	1758.0	1784.7	1815.9	1869.4	1922.2	1980.9	2023.2	2041.1	2009.1	1936.3
50°	1881.3	1886.5	1909.5	1949.7	1998.7	2059.6	2123.5	2185.2	2220.1	2190.4	2115.4
52.5°	2042.5	2044.0	2065.6	2102.7	2142.1	2209.0	2271.4	2356.8	2402.2	2385.8	2295.9
55°	2264.0	2259.5	2274.4	2306.3	2338.3	2402.9	2465.3	2561.9	2628.0	2629.5	2533.7
57.5°	2566.4	2556.0	2565.6	2590.9	2626.6	2686.7	2765.5	2850.9	2939.4	2933.4	2854.7
60°	2987.7	2983.9	3001.8	3044.1	3105.1	3167.5	3256.6	3371.8	3449.8	3476.6	3394.1
62.5°	3267.8	3278.2	3319.0	3384.4	3501.8	3631.1	3796.8	3972.9	4121.5	4188.4	4074.7
65°	3147.4	3164.5	3228.4	3325.0	3480.3	3674.2	3894.1	4183.2	4439.5	4541.3	4423.2
66°	3045.6	3073.1	3133.3	3235.8	3397.8	3609.6	3839.1	4158.6	4446.9	4561.4	4441.0
67.5°	2869.5	2888.8	2957.2	3070.9	3244.7	3454.3	3702.4	4039.8	4365.2	4486.3	4366.7
70°	2510.6	2518.1	2573.8	2670.4	2804.9	3019.6	3244.7	3569.4	3868.9	4039.0	3908.2
72.5°	1868.7	1879.1	1971.2	2147.3	2321.9	2443.8	2576.8	2836.8	3030.0	3189.0	3163.7
75°	899.0	903.5	965.2	1222.3	1562.6	1708.2	1831.5	2032.9	2106.4	2239.4	2219.4
77.5°	569.9	579.6	619.7	682.1	875.3	1048.4	1145.7	1260.9	1282.4	1394.6	1329.2
80°	156.8	182.0	222.2	326.9	561.0	668.7	712.5	708.1	712.5	678.4	656.1
82.5°	31.9	31.2	37.9	58.7	247.4	389.3	420.5	358.1	355.9	342.5	353.7
85°	8.2	7.4	8.9	18.6	42.4	115.2	144.9	81.0	61.7	58.7	52.0
87.5°	2.2	2.2	2.2	3.7	4.5	5.9	8.2	5.9	4.5	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7
2.5°	111.5	111.5	110.7	110.0	110.0	109.2	108.5	107.7	107.0	106.3	105.5
5°	118.1	116.7	114.4	112.9	111.5	109.2	107.7	106.3	104.8	104.0	102.5
7.5°	127.1	123.3	120.4	115.9	112.9	110.0	107.0	104.8	102.5	101.0	99.6
10°	138.2	132.3	126.3	120.4	115.2	110.7	106.3	102.5	100.3	98.1	96.6
12.5°	152.3	143.4	135.2	126.3	118.1	111.5	105.5	101.0	98.1	95.8	93.6
15°	175.4	161.2	147.1	133.7	123.3	112.9	104.8	99.6	95.8	93.6	91.4
17.5°	211.8	186.5	164.2	145.6	128.5	115.2	104.8	98.1	93.6	90.6	88.4
20°	264.5	222.9	187.2	160.5	138.2	118.9	104.8	95.8	91.4	87.7	85.4
22.5°	326.9	274.9	225.9	181.3	149.3	124.1	104.8	93.6	88.4	85.4	82.5
25°	418.3	349.2	282.3	219.9	167.9	132.3	107.0	92.1	86.2	82.5	79.5
27.5°	525.3	442.1	358.9	271.2	196.2	144.1	110.0	90.6	84.0	79.5	76.5
30°	647.2	555.0	453.2	339.6	233.3	159.7	115.2	89.9	81.0	76.5	72.8
32.5°	779.4	682.1	570.6	427.2	288.3	183.5	121.9	89.2	78.0	72.8	68.4
35°	936.9	846.3	710.3	550.6	373.7	224.4	136.7	90.6	75.0	69.1	63.9
37.5°	1109.3	1012.7	868.6	681.3	458.4	270.5	147.9	88.4	69.8	63.9	58.7
40°	1283.2	1172.5	1026.1	818.8	566.2	326.9	162.0	86.2	64.6	58.7	53.5
42.5°	1452.6	1335.9	1176.9	960.0	679.9	393.8	179.8	86.2	60.9	53.5	48.3
45°	1630.2	1489.7	1315.9	1095.2	792.8	470.3	205.1	85.4	56.5	49.0	43.1
47.5°	1798.1	1631.7	1431.8	1214.1	913.9	554.3	234.0	86.2	52.8	44.6	39.4
50°	1957.1	1766.1	1550.7	1320.3	1029.8	644.9	269.7	86.9	49.0	40.9	35.7
52.5°	2131.0	1919.2	1678.5	1429.6	1144.2	736.3	311.3	88.4	45.3	37.2	32.7
55°	2346.4	2111.6	1836.0	1563.3	1265.4	828.5	351.4	89.9	41.6	34.2	29.7
57.5°	2657.0	2389.5	2091.6	1763.9	1425.8	933.2	393.1	93.6	38.6	31.9	27.5
60°	3162.3	2843.5	2499.5	2113.1	1665.8	1075.1	453.2	101.8	34.9	29.0	26.0
62.5°	3770.0	3386.7	2949.0	2480.2	1891.7	1171.0	493.4	110.7	31.9	26.7	24.5
65°	4076.2	3593.2	3088.7	2582.7	1920.7	1142.8	477.0	107.7	28.2	23.8	20.8
66°	4085.1	3582.1	3069.4	2560.4	1891.0	1108.6	461.4	106.3	27.5	23.0	19.3
67.5°	4000.4	3486.2	2966.9	2459.4	1803.3	1042.4	433.2	101.0	25.3	20.8	17.1
70°	3582.1	3081.3	2605.0	2136.2	1551.4	878.2	363.3	89.2	22.3	18.6	15.6
72.5°	2855.4	2447.5	2046.3	1680.7	1205.9	659.1	286.8	72.8	19.3	16.3	13.4
75°	1994.2	1659.1	1353.8	1093.0	757.9	394.5	185.8	51.3	16.3	13.4	11.1
77.5°	1113.0	882.7	667.2	508.2	302.4	123.3	61.7	26.0	14.1	10.4	8.9
80°	566.2	419.8	319.5	235.5	139.7	63.9	31.2	17.1	11.1	8.2	7.4
82.5°	329.2	241.5	192.4	152.3	95.8	48.3	25.3	12.6	7.4	5.9	6.7
85°	73.6	97.3	82.5	69.8	51.3	30.5	17.8	8.2	5.2	5.2	5.9
87.5°	5.9	8.2	7.4	9.7	10.4	9.7	7.4	4.5	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7
2.5°	104.8	104.0	104.0	103.3	102.5	102.5	102.5	101.8	102.5	102.5	102.5
5°	101.8	101.0	100.3	99.6	98.8	98.1	98.1	97.3	97.3	97.3	98.1
7.5°	98.8	97.3	96.6	95.1	94.4	93.6	93.6	92.9	92.9	92.9	92.9
10°	95.1	93.6	92.1	91.4	90.6	89.2	89.2	88.4	87.7	87.7	87.7
12.5°	92.1	90.6	89.2	87.7	86.2	85.4	84.7	84.0	83.2	83.2	83.2
15°	89.2	86.9	85.4	84.0	82.5	81.0	80.2	79.5	78.8	78.0	78.0
17.5°	86.2	84.0	81.7	80.2	78.8	77.3	76.5	74.3	74.3	73.6	73.6
20°	82.5	80.2	78.0	76.5	75.0	73.6	72.1	70.6	69.1	68.4	68.4
22.5°	79.5	77.3	75.0	72.8	70.6	68.4	66.9	65.4	64.6	63.9	63.2
25°	76.5	73.6	70.6	68.4	66.1	63.9	62.4	60.9	59.4	58.7	58.7
27.5°	72.8	69.8	66.9	63.9	61.7	59.4	58.0	55.7	55.0	54.2	53.5
30°	69.1	65.4	62.4	59.4	57.2	54.2	52.8	51.3	49.8	49.8	49.0
32.5°	64.6	60.9	58.0	55.0	52.0	49.8	48.3	46.8	46.1	44.6	44.6
35°	60.2	56.5	52.8	49.8	47.6	45.3	43.8	42.4	40.9	40.1	40.1
37.5°	55.0	51.3	48.3	45.3	43.1	40.9	39.4	37.9	37.2	36.4	35.7
40°	49.0	45.3	43.1	40.9	38.6	37.2	34.9	33.4	32.7	31.9	31.2
42.5°	43.8	40.1	38.6	37.2	34.9	33.4	31.2	29.7	28.2	27.5	26.7
45°	39.4	36.4	34.9	33.4	31.2	29.0	27.5	26.0	24.5	23.8	23.8
47.5°	34.9	32.7	31.2	29.7	27.5	26.0	23.8	23.0	21.5	21.5	21.5
50°	31.9	29.7	28.2	26.7	25.3	23.0	21.5	20.8	20.1	20.1	20.8
52.5°	29.7	27.5	26.0	24.5	23.0	21.5	20.1	19.3	19.3	20.1	20.8
55°	27.5	25.3	23.8	22.3	20.8	20.1	18.6	18.6	19.3	20.1	20.8
57.5°	26.0	23.0	21.5	20.8	19.3	18.6	18.6	18.6	19.3	20.1	21.5
60°	23.8	20.8	19.3	19.3	17.8	17.8	17.8	18.6	19.3	20.8	21.5
62.5°	20.8	18.6	17.8	17.8	17.1	17.1	17.8	18.6	20.1	20.8	21.5
65°	17.8	16.3	16.3	16.3	16.3	17.1	17.8	18.6	19.3	20.8	21.5
66°	16.3	15.6	15.6	16.3	16.3	17.1	17.8	18.6	19.3	20.1	20.8
67.5°	15.6	14.9	14.9	15.6	16.3	16.3	17.1	18.6	19.3	20.1	20.1
70°	13.4	13.4	13.4	14.9	15.6	16.3	17.1	17.8	18.6	19.3	20.1
72.5°	11.9	11.9	12.6	13.4	14.9	15.6	16.3	17.1	18.6	19.3	19.3
75°	10.4	10.4	11.9	12.6	14.1	14.9	16.3	17.1	17.8	18.6	18.6
77.5°	8.9	9.7	11.1	12.6	13.4	14.9	15.6	16.3	17.1	17.8	17.8
80°	8.2	9.7	11.1	11.9	12.6	13.4	14.1	15.6	16.3	17.1	17.8
82.5°	8.2	8.9	10.4	11.1	11.9	13.4	14.1	14.9	15.6	16.3	17.1
85°	6.7	8.2	8.9	10.4	11.1	12.6	13.4	13.4	14.1	14.9	15.6
87.5°	5.2	5.9	5.9	7.4	8.2	9.7	11.1	11.1	11.9	12.6	13.4
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°	107.7	107.7	107.7	107.7
2.5°	102.5	103.3	103.3	103.3
5°	98.1	98.1	98.1	98.1
7.5°	92.9	92.9	92.9	92.9
10°	87.7	87.7	88.4	87.7
12.5°	83.2	82.5	82.5	82.5
15°	78.0	78.0	77.3	78.0
17.5°	72.8	72.8	72.1	72.1
20°	67.6	67.6	67.6	67.6
22.5°	63.2	62.4	62.4	62.4
25°	58.0	58.0	58.0	58.0
27.5°	53.5	53.5	53.5	53.5
30°	49.0	49.0	48.3	48.3
32.5°	44.6	44.6	44.6	44.6
35°	40.1	40.1	39.4	39.4
37.5°	34.9	34.9	34.9	34.9
40°	30.5	30.5	30.5	30.5
42.5°	26.7	26.7	26.0	26.0
45°	23.0	23.0	23.0	23.0
47.5°	21.5	21.5	21.5	21.5
50°	20.8	21.5	21.5	21.5
52.5°	21.5	21.5	21.5	21.5
55°	21.5	22.3	22.3	22.3
57.5°	21.5	22.3	22.3	23.0
60°	22.3	23.0	23.0	23.0
62.5°	22.3	23.0	23.0	23.0
65°	21.5	22.3	22.3	22.3
66°	21.5	21.5	21.5	22.3
67.5°	20.8	21.5	21.5	21.5
70°	20.1	20.8	20.8	21.5
72.5°	20.1	20.8	20.8	20.8
75°	19.3	19.3	20.1	20.1
77.5°	18.6	18.6	19.3	19.3
80°	17.8	18.6	18.6	18.6
82.5°	17.1	17.8	17.8	17.8
85°	15.6	16.3	16.3	16.3
87.5°	13.4	13.4	14.1	14.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)