

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: P181612

Luminaire Tested: **ICS-F04-LED-E1-T4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181612
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-F04-LED-E1-T4-HSS-8030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4851.3 lumens
Efficiency: N/A
Efficacy: 47.5 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

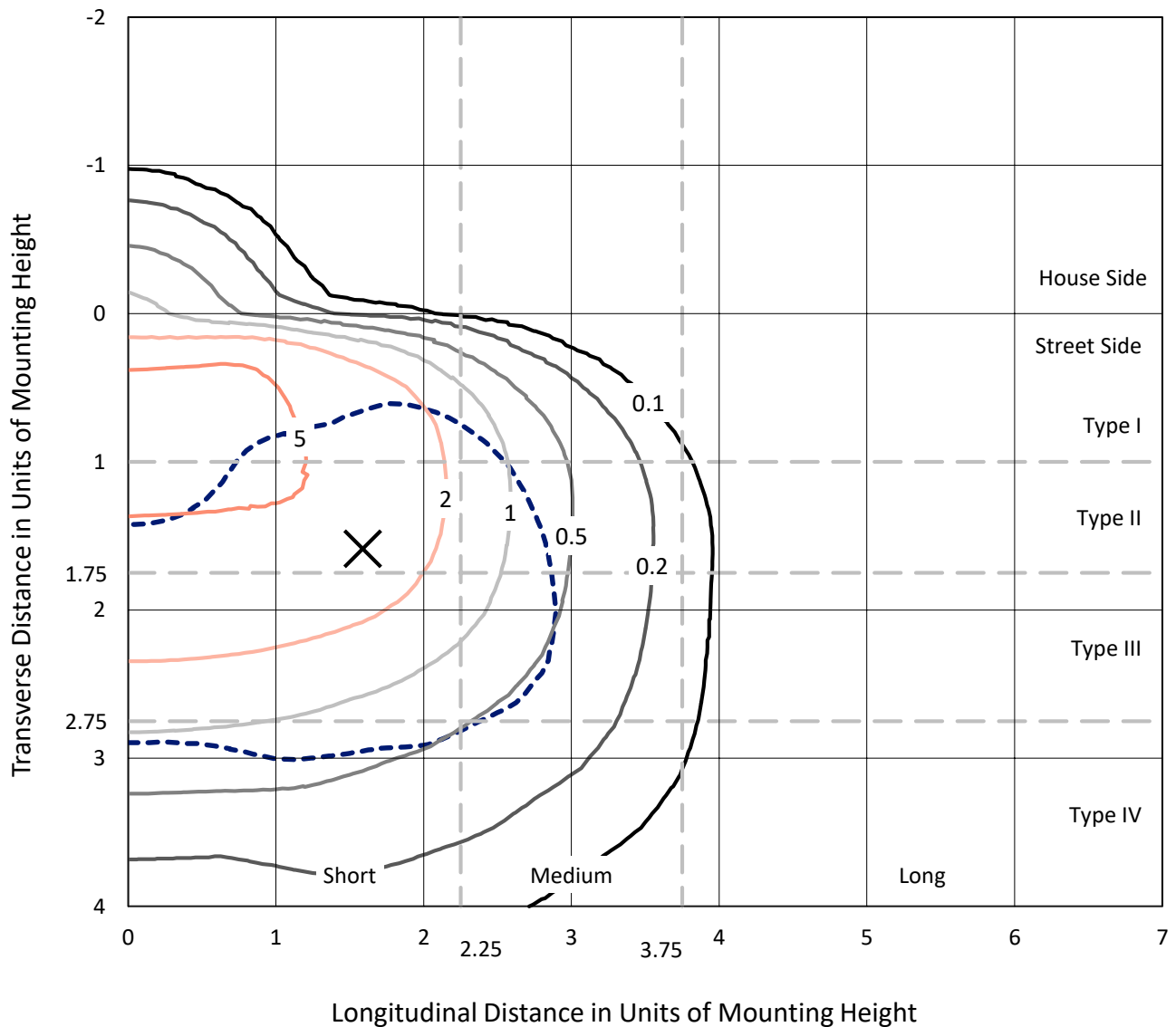
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

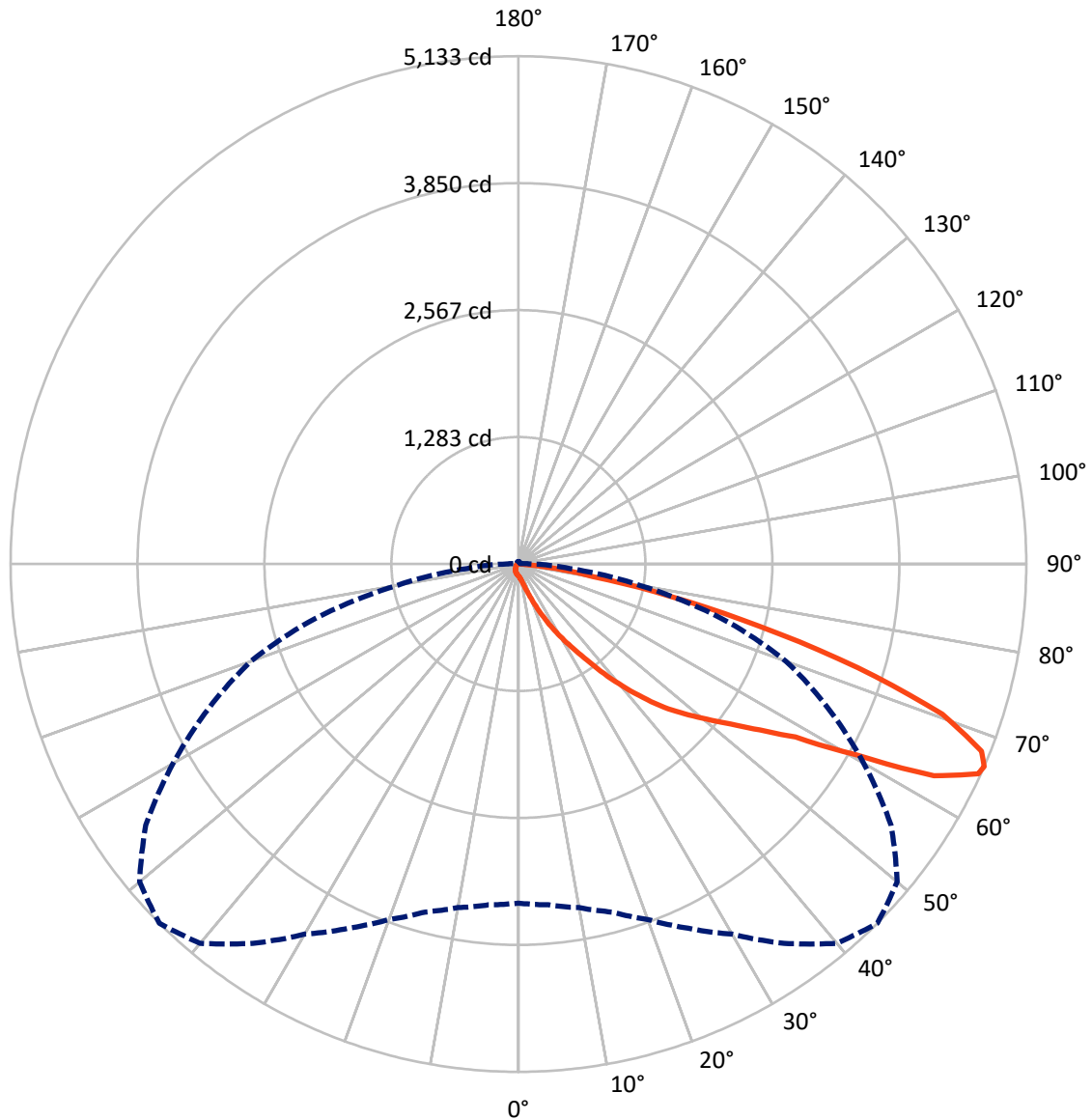
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 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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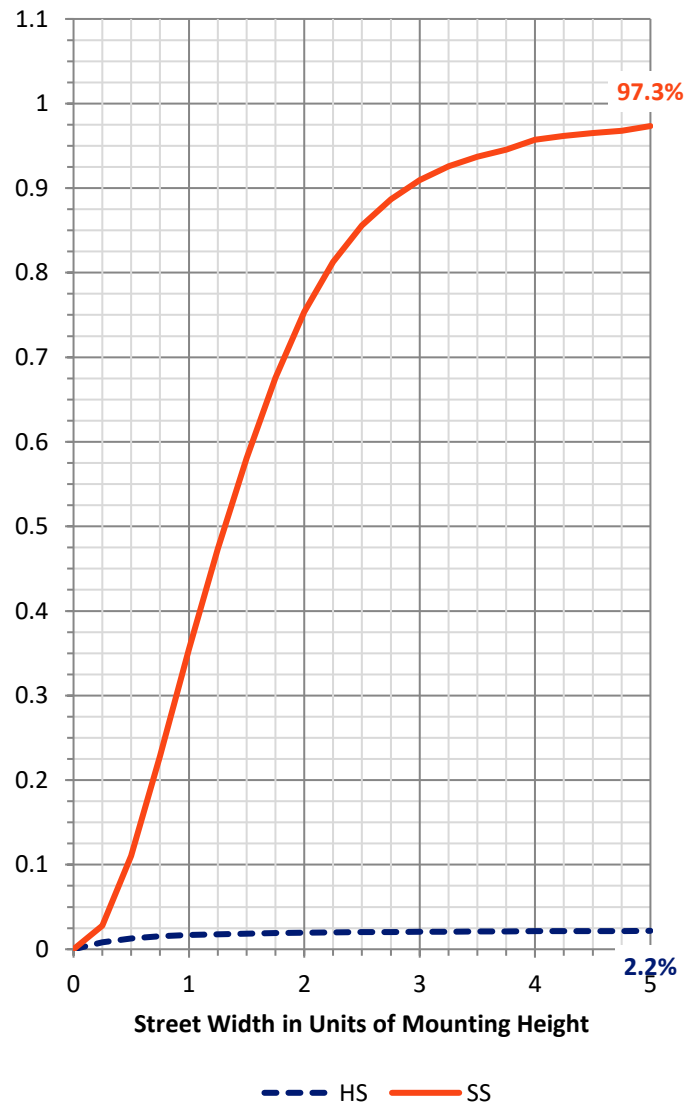
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	110.0	0.0	110.0
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	4741.3	0.0	4741.3
	% Fixture	97.7	0.0	97.7
Total	Lumens	4851.3	0.0	4851.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.2	0.3
10°-20°	49.5	1.0
20°-30°	144.9	3.0
30°-40°	338.6	7.0
40°-50°	635.9	13.1
50°-60°	1053.9	21.7
60°-70°	1673.0	34.5
70°-80°	865.2	17.8
80°-90°	78.1	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°	4851.3	100.0
0°-180°	4851.3	100.0



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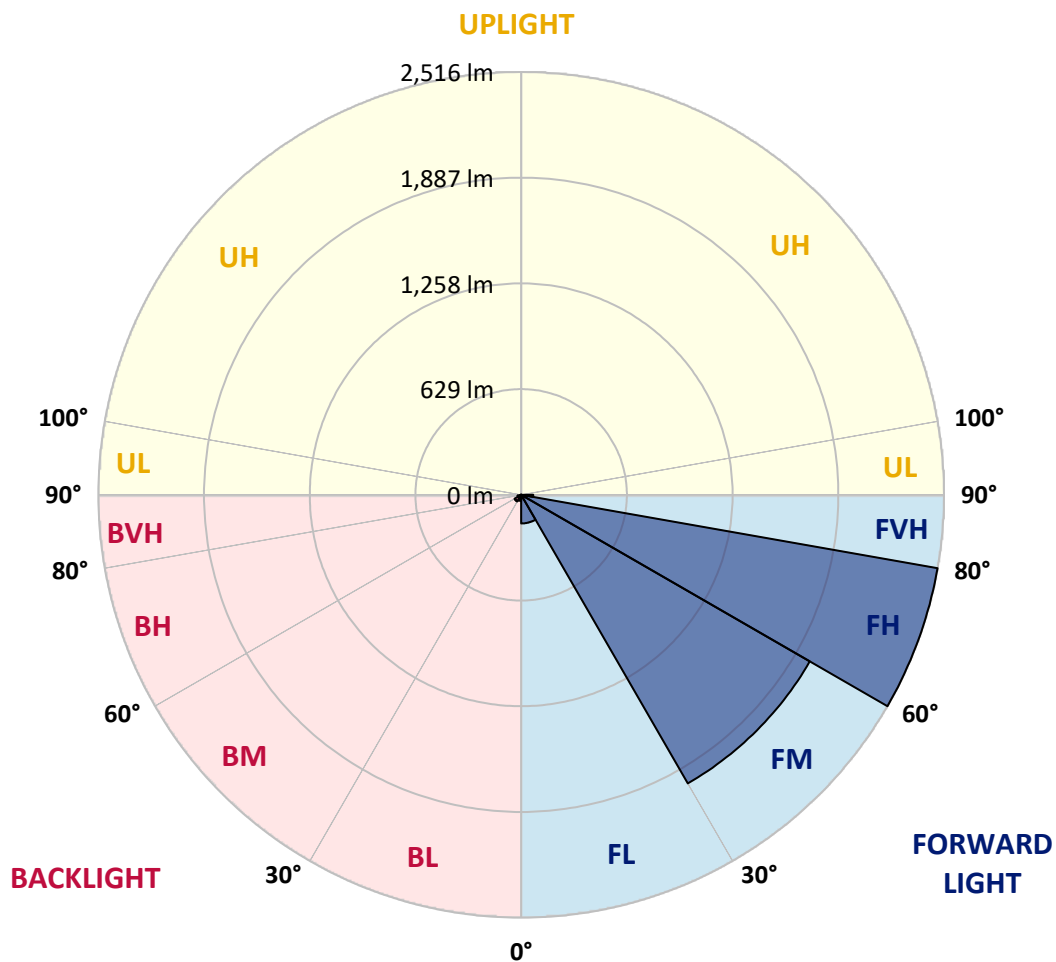
CATALOG NUMBER: ICS-F04-LED-E1-T4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	170.7	3.5			
FM (30°-60°)	1982.7	40.9			
FH (60°-80°)	2515.9	51.9			G2/5000
FVH (80°-90°)	72.0	1.5			G1/100
BL (0°-30°)	35.9	0.7	B0/110		
BM (30°-60°)	45.6	0.9	B0/220		
BH (60°-80°)	22.3	0.5	B0/110		G0/110
BVH (80°-90°)	6.2	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°	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2
2.5°	131.3	131.3	131.3	131.3	130.4	129.6	128.8	127.9	127.1	127.1	126.3
5°	148.8	149.7	148.8	148.0	146.3	145.5	143.0	141.3	138.8	138.0	135.5
7.5°	173.1	172.2	173.1	170.6	167.2	166.4	163.0	158.9	155.5	150.5	147.2
10°	208.2	207.4	208.2	203.2	198.2	194.0	188.1	183.1	175.6	169.7	163.0
12.5°	264.2	264.2	262.5	255.9	249.2	240.0	230.8	219.9	206.5	194.8	183.9
15°	350.3	346.2	338.6	334.5	322.7	308.5	298.5	276.8	257.5	239.1	217.4
17.5°	454.0	445.7	439.8	430.6	415.6	397.2	380.4	348.7	329.4	299.3	268.4
20°	572.7	562.7	561.0	546.8	530.9	510.9	486.6	449.0	416.4	378.8	335.3
22.5°	694.0	695.7	689.0	678.9	663.0	639.6	602.0	567.7	527.6	479.9	423.9
25°	829.4	828.6	822.8	811.0	799.3	770.1	740.0	707.4	659.7	598.7	531.8
27.5°	956.5	955.7	941.5	942.3	919.7	908.9	879.6	844.5	786.8	735.8	663.0
30°	1089.5	1081.1	1071.9	1065.2	1049.3	1030.1	1015.1	973.3	929.8	869.6	810.2
32.5°	1224.1	1214.9	1217.4	1209.0	1196.5	1177.3	1154.7	1120.4	1073.6	1015.1	959.9
35°	1388.8	1384.6	1377.9	1380.4	1377.9	1363.7	1344.5	1299.3	1248.3	1192.3	1135.5
37.5°	1510.9	1506.7	1510.9	1528.4	1532.6	1541.8	1527.6	1505.0	1468.2	1407.2	1347.8
40°	1623.8	1624.6	1643.8	1665.6	1680.6	1710.7	1715.7	1706.5	1677.3	1621.3	1543.5
42.5°	1724.9	1737.5	1755.0	1791.0	1823.6	1866.2	1898.0	1903.0	1881.3	1844.5	1765.9
45°	1837.8	1848.7	1876.3	1918.9	1964.1	2016.7	2067.7	2094.5	2092.8	2066.9	1982.5
47.5°	1964.1	1978.3	2008.4	2043.5	2103.7	2163.1	2229.1	2276.8	2296.8	2260.9	2178.9
50°	2117.1	2122.9	2148.8	2194.0	2249.2	2317.7	2389.7	2459.1	2498.4	2464.9	2380.5
52.5°	2298.5	2300.2	2324.4	2366.2	2410.6	2485.8	2556.0	2652.2	2703.2	2684.8	2583.6
55°	2547.7	2542.7	2559.4	2595.3	2631.3	2704.0	2774.3	2883.0	2957.4	2959.1	2851.2
57.5°	2888.0	2876.3	2887.2	2915.6	2955.7	3023.4	3112.1	3208.2	3307.7	3301.0	3212.4
60°	3362.1	3357.9	3378.0	3425.6	3494.2	3564.4	3664.7	3794.3	3882.1	3912.2	3819.4
62.5°	3677.3	3689.0	3735.0	3808.6	3940.7	4086.2	4272.6	4470.8	4638.0	4713.3	4585.3
65°	3541.8	3561.1	3633.0	3741.7	3916.4	4134.7	4382.1	4707.4	4995.9	5110.4	4977.5
66°	3427.3	3458.2	3526.0	3641.3	3823.6	4061.9	4320.3	4679.8	5004.2	5133.0	4997.5
67.5°	3229.1	3250.9	3327.8	3455.7	3651.4	3887.2	4166.4	4546.0	4912.3	5048.5	4913.9
70°	2825.3	2833.6	2896.3	3005.0	3156.4	3398.0	3651.4	4016.8	4353.7	4545.2	4398.0
72.5°	2102.9	2114.6	2218.2	2416.4	2612.9	2750.0	2899.7	3192.3	3409.7	3588.7	3560.2
75°	1011.7	1016.7	1086.1	1375.4	1758.4	1922.3	2061.1	2287.6	2370.4	2520.1	2497.5
77.5°	641.3	652.2	697.3	767.6	985.0	1179.8	1289.3	1418.9	1443.2	1569.4	1495.8
80°	176.4	204.9	250.0	367.9	631.3	752.5	801.8	796.8	801.8	763.4	738.3
82.5°	36.0	35.1	42.6	66.1	278.4	438.1	473.2	403.0	400.5	385.5	398.0
85°	9.2	8.4	10.0	20.9	47.7	129.6	163.0	91.1	69.4	66.1	58.5
87.5°	2.5	2.5	2.5	4.2	5.0	6.7	9.2	6.7	5.0	5.0	5.0
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°	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2
2.5°	125.4	125.4	124.6	123.7	123.7	122.9	122.1	121.2	120.4	119.6	118.7
5°	132.9	131.3	128.8	127.1	125.4	122.9	121.2	119.6	117.9	117.1	115.4
7.5°	143.0	138.8	135.5	130.4	127.1	123.7	120.4	117.9	115.4	113.7	112.0
10°	155.5	148.8	142.1	135.5	129.6	124.6	119.6	115.4	112.9	110.4	108.7
12.5°	171.4	161.4	152.2	142.1	132.9	125.4	118.7	113.7	110.4	107.9	105.4
15°	197.3	181.4	165.6	150.5	138.8	127.1	117.9	112.0	107.9	105.4	102.8
17.5°	238.3	209.9	184.8	163.9	144.7	129.6	117.9	110.4	105.4	102.0	99.5
20°	297.7	250.8	210.7	180.6	155.5	133.8	117.9	107.9	102.8	98.7	96.2
22.5°	367.9	309.4	254.2	204.0	168.1	139.6	117.9	105.4	99.5	96.2	92.8
25°	470.7	393.0	317.7	247.5	189.0	148.8	120.4	103.7	97.0	92.8	89.5
27.5°	591.1	497.5	403.8	305.2	220.7	162.2	123.7	102.0	94.5	89.5	86.1
30°	728.3	624.6	510.0	382.1	262.5	179.8	129.6	101.2	91.1	86.1	81.9
32.5°	877.1	767.6	642.1	480.8	324.4	206.5	137.1	100.3	87.8	81.9	76.9
35°	1054.4	952.3	799.3	619.6	420.6	252.5	153.8	102.0	84.4	77.8	71.9
37.5°	1248.3	1139.6	977.4	766.7	515.9	304.4	166.4	99.5	78.6	71.9	66.1
40°	1444.0	1319.4	1154.7	921.4	637.1	367.9	182.3	97.0	72.7	66.1	60.2
42.5°	1634.6	1503.4	1324.4	1080.3	765.1	443.1	202.3	97.0	68.6	60.2	54.3
45°	1834.5	1676.4	1480.8	1232.5	892.1	529.3	230.8	96.2	63.5	55.2	48.5
47.5°	2023.4	1836.1	1611.2	1366.2	1028.4	623.8	263.4	97.0	59.4	50.2	44.3
50°	2202.4	1987.5	1745.0	1485.8	1158.9	725.8	303.5	97.8	55.2	46.0	40.1
52.5°	2398.0	2159.7	1888.8	1608.7	1287.6	828.6	350.3	99.5	51.0	41.8	36.8
55°	2640.5	2376.3	2066.1	1759.2	1423.9	932.3	395.5	101.2	46.8	38.5	33.4
57.5°	2990.0	2689.0	2353.7	1985.0	1604.5	1050.2	442.3	105.4	43.5	36.0	30.9
60°	3558.6	3199.9	2812.7	2377.9	1874.6	1209.9	510.0	114.5	39.3	32.6	29.3
62.5°	4242.5	3811.1	3318.6	2791.0	2128.8	1317.7	555.2	124.6	36.0	30.1	27.6
65°	4587.0	4043.5	3475.8	2906.4	2161.4	1286.0	536.8	121.2	31.8	26.8	23.4
66°	4597.0	4031.0	3454.0	2881.3	2127.9	1247.5	519.2	119.6	30.9	25.9	21.7
67.5°	4501.7	3923.1	3338.7	2767.6	2029.3	1173.1	487.5	113.7	28.4	23.4	19.2
70°	4031.0	3467.4	2931.5	2403.9	1745.8	988.3	408.9	100.3	25.1	20.9	17.6
72.5°	3213.2	2754.2	2302.7	1891.3	1357.0	741.6	322.7	81.9	21.7	18.4	15.1
75°	2244.2	1867.1	1523.4	1229.9	852.9	444.0	209.0	57.7	18.4	15.1	12.5
77.5°	1252.5	993.3	750.8	571.9	340.3	138.8	69.4	29.3	15.9	11.7	10.0
80°	637.1	472.4	359.5	265.1	157.2	71.9	35.1	19.2	12.5	9.2	8.4
82.5°	370.4	271.7	216.6	171.4	107.9	54.3	28.4	14.2	8.4	6.7	7.5
85°	82.8	109.5	92.8	78.6	57.7	34.3	20.1	9.2	5.9	5.9	6.7
87.5°	6.7	9.2	8.4	10.9	11.7	10.9	8.4	5.0	4.2	5.0	5.0
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°	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2
2.5°	117.9	117.1	117.1	116.2	115.4	115.4	115.4	114.5	115.4	115.4	115.4
5°	114.5	113.7	112.9	112.0	111.2	110.4	110.4	109.5	109.5	109.5	110.4
7.5°	111.2	109.5	108.7	107.0	106.2	105.4	105.4	104.5	104.5	104.5	104.5
10°	107.0	105.4	103.7	102.8	102.0	100.3	100.3	99.5	98.7	98.7	98.7
12.5°	103.7	102.0	100.3	98.7	97.0	96.2	95.3	94.5	93.6	93.6	93.6
15°	100.3	97.8	96.2	94.5	92.8	91.1	90.3	89.5	88.6	87.8	87.8
17.5°	97.0	94.5	92.0	90.3	88.6	87.0	86.1	83.6	83.6	82.8	82.8
20°	92.8	90.3	87.8	86.1	84.4	82.8	81.1	79.4	77.8	76.9	76.9
22.5°	89.5	87.0	84.4	81.9	79.4	76.9	75.3	73.6	72.7	71.9	71.1
25°	86.1	82.8	79.4	76.9	74.4	71.9	70.2	68.6	66.9	66.1	66.1
27.5°	81.9	78.6	75.3	71.9	69.4	66.9	65.2	62.7	61.9	61.0	60.2
30°	77.8	73.6	70.2	66.9	64.4	61.0	59.4	57.7	56.0	56.0	55.2
32.5°	72.7	68.6	65.2	61.9	58.5	56.0	54.3	52.7	51.8	50.2	50.2
35°	67.7	63.5	59.4	56.0	53.5	51.0	49.3	47.7	46.0	45.2	45.2
37.5°	61.9	57.7	54.3	51.0	48.5	46.0	44.3	42.6	41.8	41.0	40.1
40°	55.2	51.0	48.5	46.0	43.5	41.8	39.3	37.6	36.8	36.0	35.1
42.5°	49.3	45.2	43.5	41.8	39.3	37.6	35.1	33.4	31.8	30.9	30.1
45°	44.3	41.0	39.3	37.6	35.1	32.6	30.9	29.3	27.6	26.8	26.8
47.5°	39.3	36.8	35.1	33.4	30.9	29.3	26.8	25.9	24.2	24.2	24.2
50°	36.0	33.4	31.8	30.1	28.4	25.9	24.2	23.4	22.6	22.6	23.4
52.5°	33.4	30.9	29.3	27.6	25.9	24.2	22.6	21.7	21.7	22.6	23.4
55°	30.9	28.4	26.8	25.1	23.4	22.6	20.9	20.9	21.7	22.6	23.4
57.5°	29.3	25.9	24.2	23.4	21.7	20.9	20.9	20.9	21.7	22.6	24.2
60°	26.8	23.4	21.7	21.7	20.1	20.1	20.1	20.9	21.7	23.4	24.2
62.5°	23.4	20.9	20.1	20.1	19.2	19.2	20.1	20.9	22.6	23.4	24.2
65°	20.1	18.4	18.4	18.4	18.4	19.2	20.1	20.9	21.7	23.4	24.2
66°	18.4	17.6	17.6	18.4	18.4	19.2	20.1	20.9	21.7	22.6	23.4
67.5°	17.6	16.7	16.7	17.6	18.4	18.4	19.2	20.9	21.7	22.6	22.6
70°	15.1	15.1	15.1	16.7	17.6	18.4	19.2	20.1	20.9	21.7	22.6
72.5°	13.4	13.4	14.2	15.1	16.7	17.6	18.4	19.2	20.9	21.7	21.7
75°	11.7	11.7	13.4	14.2	15.9	16.7	18.4	19.2	20.1	20.9	20.9
77.5°	10.0	10.9	12.5	14.2	15.1	16.7	17.6	18.4	19.2	20.1	20.1
80°	9.2	10.9	12.5	13.4	14.2	15.1	15.9	17.6	18.4	19.2	20.1
82.5°	9.2	10.0	11.7	12.5	13.4	15.1	15.9	16.7	17.6	18.4	19.2
85°	7.5	9.2	10.0	11.7	12.5	14.2	15.1	15.1	15.9	16.7	17.6
87.5°	5.9	6.7	6.7	8.4	9.2	10.9	12.5	12.5	13.4	14.2	15.1
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°	121.2	121.2	121.2	121.2
2.5°	115.4	116.2	116.2	116.2
5°	110.4	110.4	110.4	110.4
7.5°	104.5	104.5	104.5	104.5
10°	98.7	98.7	99.5	98.7
12.5°	93.6	92.8	92.8	92.8
15°	87.8	87.8	87.0	87.8
17.5°	81.9	81.9	81.1	81.1
20°	76.1	76.1	76.1	76.1
22.5°	71.1	70.2	70.2	70.2
25°	65.2	65.2	65.2	65.2
27.5°	60.2	60.2	60.2	60.2
30°	55.2	55.2	54.3	54.3
32.5°	50.2	50.2	50.2	50.2
35°	45.2	45.2	44.3	44.3
37.5°	39.3	39.3	39.3	39.3
40°	34.3	34.3	34.3	34.3
42.5°	30.1	30.1	29.3	29.3
45°	25.9	25.9	25.9	25.9
47.5°	24.2	24.2	24.2	24.2
50°	23.4	24.2	24.2	24.2
52.5°	24.2	24.2	24.2	24.2
55°	24.2	25.1	25.1	25.1
57.5°	24.2	25.1	25.1	25.9
60°	25.1	25.9	25.9	25.9
62.5°	25.1	25.9	25.9	25.9
65°	24.2	25.1	25.1	25.1
66°	24.2	24.2	24.2	25.1
67.5°	23.4	24.2	24.2	24.2
70°	22.6	23.4	23.4	24.2
72.5°	22.6	23.4	23.4	23.4
75°	21.7	21.7	22.6	22.6
77.5°	20.9	20.9	21.7	21.7
80°	20.1	20.9	20.9	20.9
82.5°	19.2	20.1	20.1	20.1
85°	17.6	18.4	18.4	18.4
87.5°	15.1	15.1	15.9	15.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)