

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: P181592

Luminaire Tested: **ICS-F02-LED-E1-T4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181592
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-F02-LED-E1-T4-HSS-8030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2425.7 lumens
Efficiency: N/A
Efficacy: 44.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

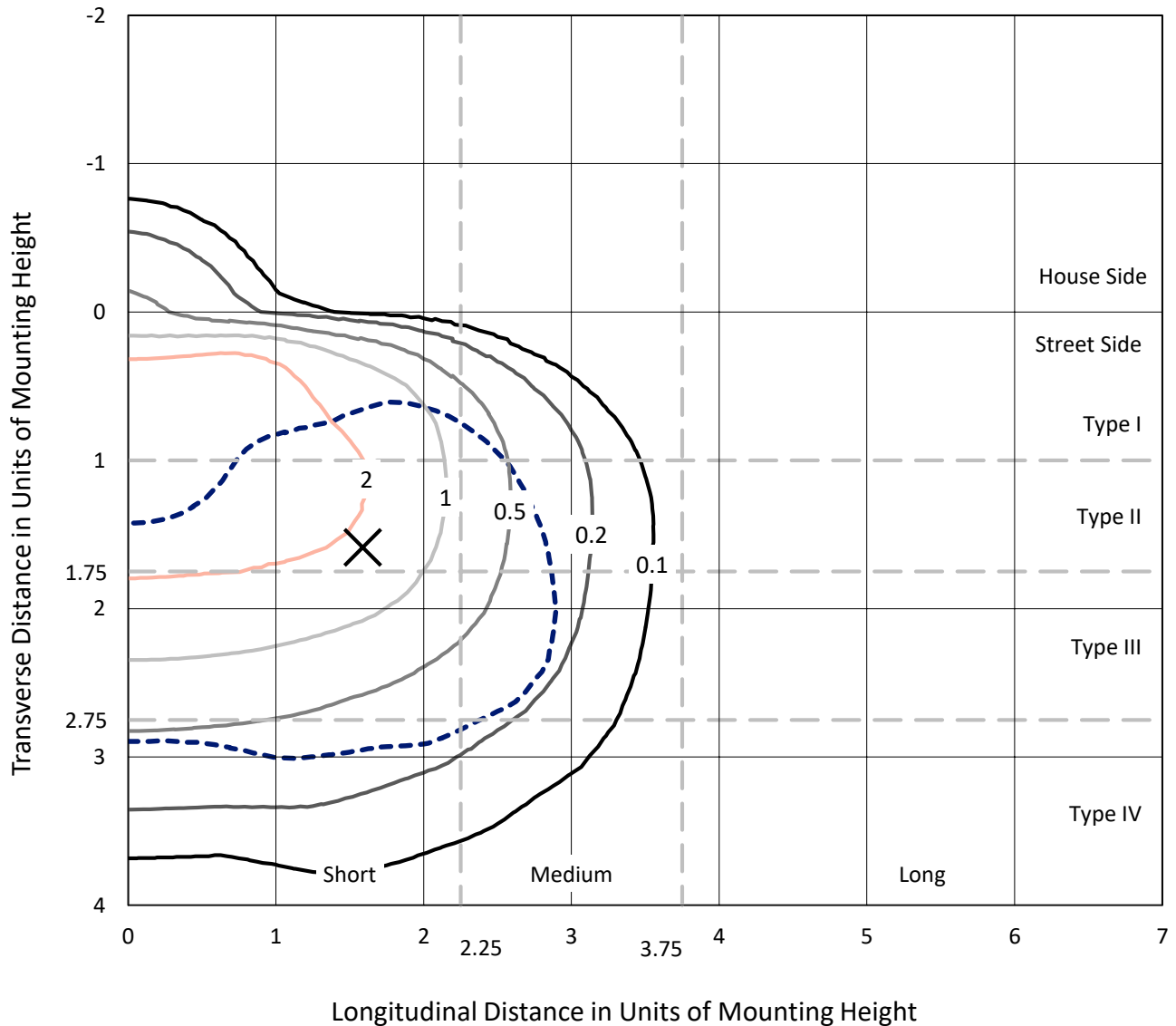
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

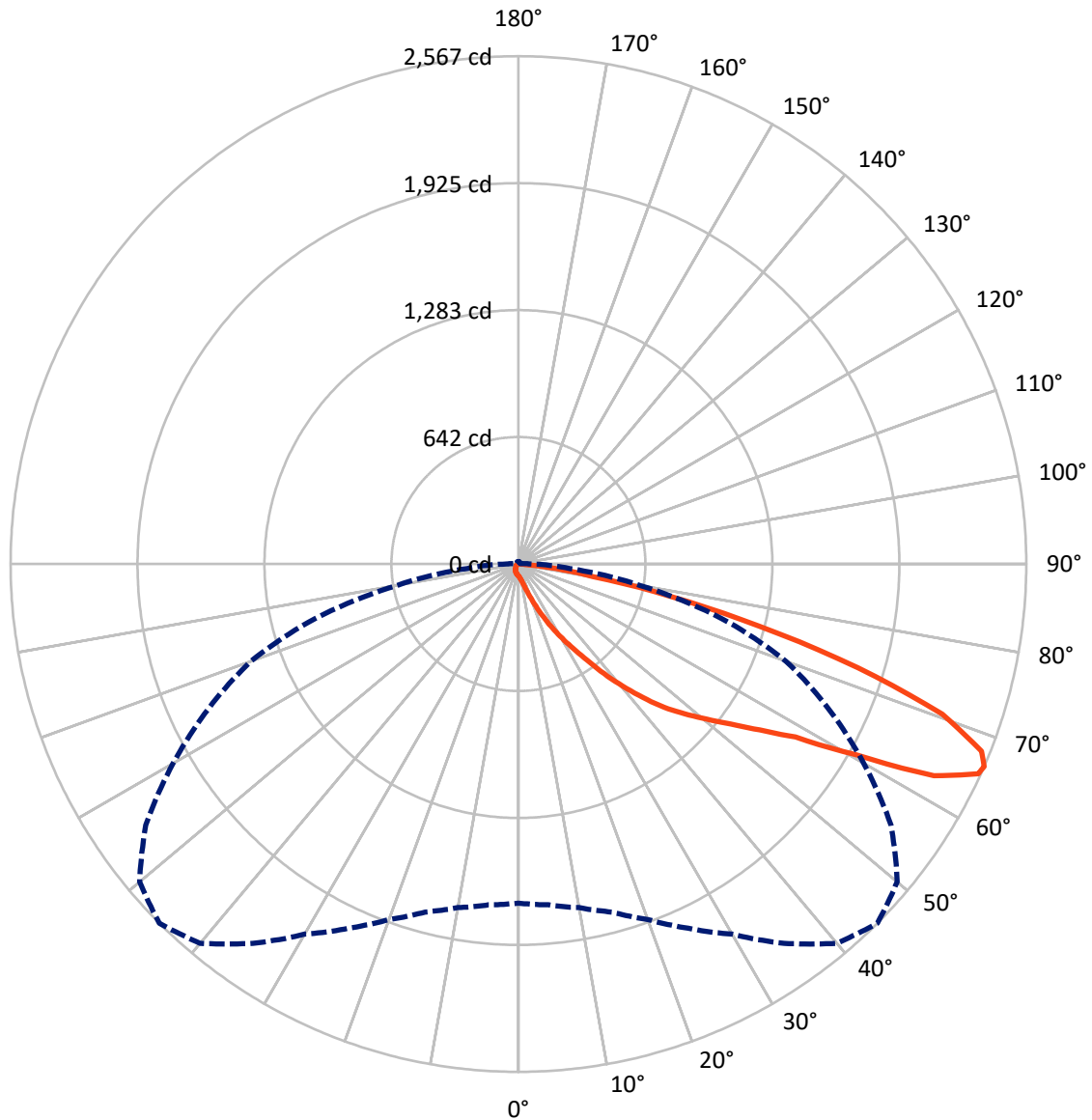
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 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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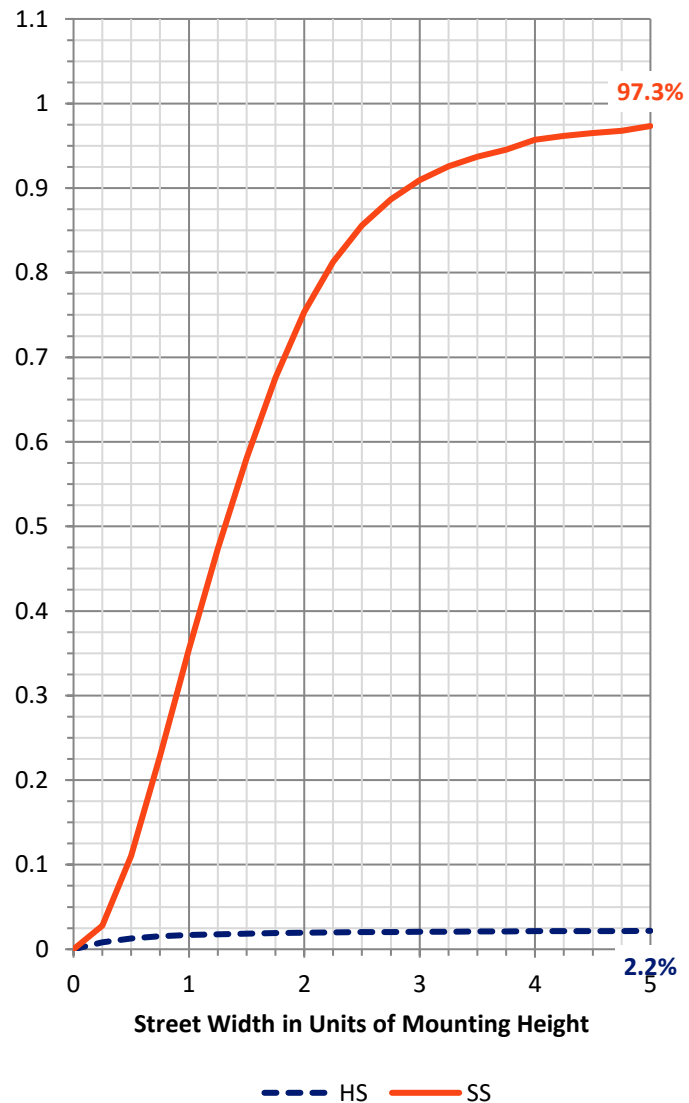
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	55.0	0.0	55.0
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	2370.7	0.0	2370.7
	% Fixture	97.7	0.0	97.7
Total	Lumens	2425.7	0.0	2425.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	0.3
10°-20°	24.7	1.0
20°-30°	72.5	3.0
30°-40°	169.3	7.0
40°-50°	318.0	13.1
50°-60°	526.9	21.7
60°-70°	836.5	34.5
70°-80°	432.6	17.8
80°-90°	39.1	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°	2425.7	100.0
0°-180°	2425.7	100.0



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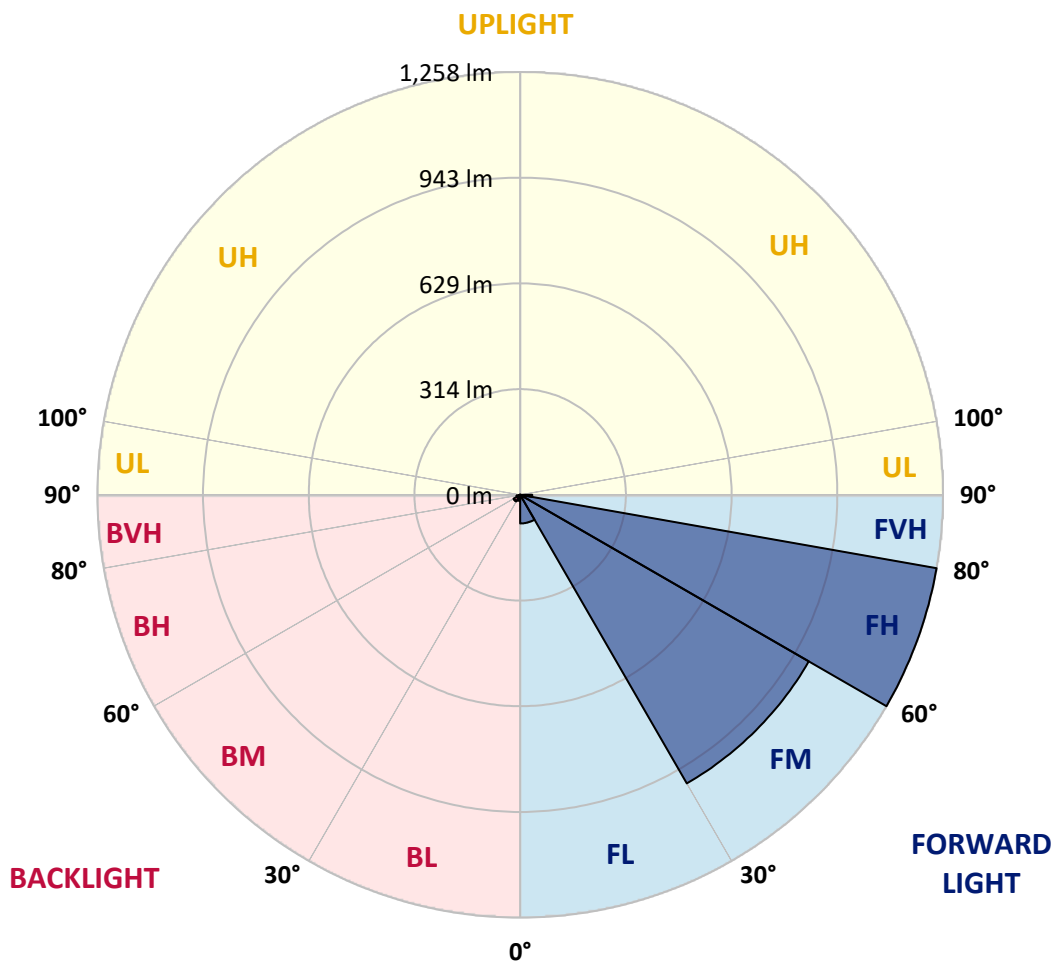
CATALOG NUMBER: ICS-F02-LED-E1-T4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	85.4	3.5			
FM (30°-60°)	991.4	40.9			
FH (60°-80°)	1258.0	51.9			G1/1800
FVH (80°-90°)	36.0	1.5			G1/100
BL (0°-30°)	18.0	0.7	B0/110		
BM (30°-60°)	22.8	0.9	B0/220		
BH (60°-80°)	11.1	0.5	B0/110		G0/110
BVH (80°-90°)	3.1	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
2.5°	65.6	65.6	65.6	65.6	65.2	64.8	64.4	64.0	63.5	63.5	63.1
5°	74.4	74.8	74.4	74.0	73.2	72.7	71.5	70.7	69.4	69.0	67.7
7.5°	86.5	86.1	86.5	85.3	83.6	83.2	81.5	79.4	77.8	75.3	73.6
10°	104.1	103.7	104.1	101.6	99.1	97.0	94.1	91.6	87.8	84.9	81.5
12.5°	132.1	132.1	131.3	127.9	124.6	120.0	115.4	110.0	103.3	97.4	92.0
15°	175.2	173.1	169.3	167.2	161.4	154.3	149.2	138.4	128.8	119.6	108.7
17.5°	227.0	222.8	219.9	215.3	207.8	198.6	190.2	174.3	164.7	149.7	134.2
20°	286.4	281.4	280.5	273.4	265.5	255.4	243.3	224.5	208.2	189.4	167.6
22.5°	347.0	347.8	344.5	339.5	331.5	319.8	301.0	283.9	263.8	240.0	212.0
25°	414.7	414.3	411.4	405.5	399.7	385.0	370.0	353.7	329.9	299.3	265.9
27.5°	478.3	477.8	470.7	471.2	459.9	454.4	439.8	422.2	393.4	367.9	331.5
30°	544.7	540.6	536.0	532.6	524.7	515.1	507.5	486.6	464.9	434.8	405.1
32.5°	612.0	607.4	608.7	604.5	598.2	588.6	577.3	560.2	536.8	507.5	479.9
35°	694.4	692.3	689.0	690.2	689.0	681.9	672.2	649.7	624.2	596.2	567.7
37.5°	755.4	753.4	755.4	764.2	766.3	770.9	763.8	752.5	734.1	703.6	673.9
40°	811.9	812.3	821.9	832.8	840.3	855.4	857.9	853.3	838.6	810.6	771.7
42.5°	862.5	868.7	877.5	895.5	911.8	933.1	949.0	951.5	940.6	922.2	883.0
45°	918.9	924.3	938.1	959.5	982.0	1008.4	1033.9	1047.3	1046.4	1033.5	991.2
47.5°	982.0	989.1	1004.2	1021.7	1051.8	1081.5	1114.6	1138.4	1148.4	1130.4	1089.5
50°	1058.5	1061.5	1074.4	1097.0	1124.6	1158.9	1194.8	1229.5	1249.2	1232.5	1190.2
52.5°	1149.3	1150.1	1162.2	1183.1	1205.3	1242.9	1278.0	1326.1	1351.6	1342.4	1291.8
55°	1273.8	1271.3	1279.7	1297.7	1315.6	1352.0	1387.1	1441.5	1478.7	1479.5	1425.6
57.5°	1444.0	1438.1	1443.6	1457.8	1477.9	1511.7	1556.0	1604.1	1653.9	1650.5	1606.2
60°	1681.0	1678.9	1689.0	1712.8	1747.1	1782.2	1832.4	1897.2	1941.1	1956.1	1909.7
62.5°	1838.6	1844.5	1867.5	1904.3	1970.3	2043.1	2136.3	2235.4	2319.0	2356.6	2292.7
65°	1770.9	1780.5	1816.5	1870.8	1958.2	2067.3	2191.1	2353.7	2497.9	2555.2	2488.7
66°	1713.6	1729.1	1763.0	1820.7	1911.8	2031.0	2160.1	2339.9	2502.1	2566.5	2498.8
67.5°	1614.6	1625.4	1663.9	1727.9	1825.7	1943.6	2083.2	2273.0	2456.1	2524.3	2457.0
70°	1412.6	1416.8	1448.2	1502.5	1578.2	1699.0	1825.7	2008.4	2176.9	2272.6	2199.0
72.5°	1051.4	1057.3	1109.1	1208.2	1306.5	1375.0	1449.8	1596.2	1704.9	1794.3	1780.1
75°	505.9	508.4	543.1	687.7	879.2	961.1	1030.5	1143.8	1185.2	1260.0	1248.8
77.5°	320.7	326.1	348.7	383.8	492.5	589.9	644.7	709.5	721.6	784.7	747.9
80°	88.2	102.4	125.0	183.9	315.6	376.3	400.9	398.4	400.9	381.7	369.2
82.5°	18.0	17.6	21.3	33.0	139.2	219.1	236.6	201.5	200.3	192.7	199.0
85°	4.6	4.2	5.0	10.5	23.8	64.8	81.5	45.6	34.7	33.0	29.3
87.5°	1.3	1.3	1.3	2.1	2.5	3.3	4.6	3.3	2.5	2.5	2.5
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°	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
2.5°	62.7	62.7	62.3	61.9	61.9	61.5	61.0	60.6	60.2	59.8	59.4
5°	66.5	65.6	64.4	63.5	62.7	61.5	60.6	59.8	58.9	58.5	57.7
7.5°	71.5	69.4	67.7	65.2	63.5	61.9	60.2	58.9	57.7	56.9	56.0
10°	77.8	74.4	71.1	67.7	64.8	62.3	59.8	57.7	56.4	55.2	54.3
12.5°	85.7	80.7	76.1	71.1	66.5	62.7	59.4	56.9	55.2	53.9	52.7
15°	98.7	90.7	82.8	75.3	69.4	63.5	58.9	56.0	53.9	52.7	51.4
17.5°	119.1	104.9	92.4	81.9	72.3	64.8	58.9	55.2	52.7	51.0	49.7
20°	148.8	125.4	105.4	90.3	77.8	66.9	58.9	53.9	51.4	49.3	48.1
22.5°	183.9	154.7	127.1	102.0	84.0	69.8	58.9	52.7	49.7	48.1	46.4
25°	235.4	196.5	158.9	123.7	94.5	74.4	60.2	51.8	48.5	46.4	44.7
27.5°	295.6	248.7	201.9	152.6	110.4	81.1	61.9	51.0	47.2	44.7	43.1
30°	364.1	312.3	255.0	191.1	131.3	89.9	64.8	50.6	45.6	43.1	41.0
32.5°	438.5	383.8	321.1	240.4	162.2	103.3	68.6	50.2	43.9	41.0	38.5
35°	527.2	476.2	399.7	309.8	210.3	126.3	76.9	51.0	42.2	38.9	36.0
37.5°	624.2	569.8	488.7	383.4	257.9	152.2	83.2	49.7	39.3	36.0	33.0
40°	722.0	659.7	577.3	460.7	318.6	183.9	91.1	48.5	36.4	33.0	30.1
42.5°	817.3	751.7	662.2	540.1	382.5	221.6	101.2	48.5	34.3	30.1	27.2
45°	917.2	838.2	740.4	616.2	446.1	264.6	115.4	48.1	31.8	27.6	24.2
47.5°	1011.7	918.1	805.6	683.1	514.2	311.9	131.7	48.5	29.7	25.1	22.2
50°	1101.2	993.7	872.5	742.9	579.4	362.9	151.8	48.9	27.6	23.0	20.1
52.5°	1199.0	1079.9	944.4	804.4	643.8	414.3	175.2	49.7	25.5	20.9	18.4
55°	1320.2	1188.1	1033.0	879.6	712.0	466.1	197.7	50.6	23.4	19.2	16.7
57.5°	1495.0	1344.5	1176.9	992.5	802.3	525.1	221.2	52.7	21.7	18.0	15.5
60°	1779.3	1599.9	1406.4	1189.0	937.3	604.9	255.0	57.3	19.6	16.3	14.6
62.5°	2121.3	1905.5	1659.3	1395.5	1064.4	658.9	277.6	62.3	18.0	15.1	13.8
65°	2293.5	2021.8	1737.9	1453.2	1080.7	643.0	268.4	60.6	15.9	13.4	11.7
66°	2298.5	2015.5	1727.0	1440.6	1064.0	623.8	259.6	59.8	15.5	13.0	10.9
67.5°	2250.9	1961.6	1669.3	1383.8	1014.6	586.5	243.7	56.9	14.2	11.7	9.6
70°	2015.5	1733.7	1465.7	1201.9	872.9	494.2	204.4	50.2	12.5	10.5	8.8
72.5°	1606.6	1377.1	1151.3	945.7	678.5	370.8	161.4	41.0	10.9	9.2	7.5
75°	1122.1	933.5	761.7	615.0	426.4	222.0	104.5	28.8	9.2	7.5	6.3
77.5°	626.3	496.7	375.4	286.0	170.2	69.4	34.7	14.6	7.9	5.9	5.0
80°	318.6	236.2	179.8	132.5	78.6	36.0	17.6	9.6	6.3	4.6	4.2
82.5°	185.2	135.9	108.3	85.7	53.9	27.2	14.2	7.1	4.2	3.3	3.8
85°	41.4	54.8	46.4	39.3	28.8	17.1	10.0	4.6	2.9	2.9	3.3
87.5°	3.3	4.6	4.2	5.4	5.9	5.4	4.2	2.5	2.1	2.5	2.5
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°	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
2.5°	58.9	58.5	58.5	58.1	57.7	57.7	57.7	57.3	57.7	57.7	57.7
5°	57.3	56.9	56.4	56.0	55.6	55.2	55.2	54.8	54.8	54.8	55.2
7.5°	55.6	54.8	54.3	53.5	53.1	52.7	52.7	52.3	52.3	52.3	52.3
10°	53.5	52.7	51.8	51.4	51.0	50.2	50.2	49.7	49.3	49.3	49.3
12.5°	51.8	51.0	50.2	49.3	48.5	48.1	47.7	47.2	46.8	46.8	46.8
15°	50.2	48.9	48.1	47.2	46.4	45.6	45.2	44.7	44.3	43.9	43.9
17.5°	48.5	47.2	46.0	45.2	44.3	43.5	43.1	41.8	41.8	41.4	41.4
20°	46.4	45.2	43.9	43.1	42.2	41.4	40.6	39.7	38.9	38.5	38.5
22.5°	44.7	43.5	42.2	41.0	39.7	38.5	37.6	36.8	36.4	36.0	35.5
25°	43.1	41.4	39.7	38.5	37.2	36.0	35.1	34.3	33.4	33.0	33.0
27.5°	41.0	39.3	37.6	36.0	34.7	33.4	32.6	31.4	30.9	30.5	30.1
30°	38.9	36.8	35.1	33.4	32.2	30.5	29.7	28.8	28.0	28.0	27.6
32.5°	36.4	34.3	32.6	30.9	29.3	28.0	27.2	26.3	25.9	25.1	25.1
35°	33.9	31.8	29.7	28.0	26.8	25.5	24.7	23.8	23.0	22.6	22.6
37.5°	30.9	28.8	27.2	25.5	24.2	23.0	22.2	21.3	20.9	20.5	20.1
40°	27.6	25.5	24.2	23.0	21.7	20.9	19.6	18.8	18.4	18.0	17.6
42.5°	24.7	22.6	21.7	20.9	19.6	18.8	17.6	16.7	15.9	15.5	15.1
45°	22.2	20.5	19.6	18.8	17.6	16.3	15.5	14.6	13.8	13.4	13.4
47.5°	19.6	18.4	17.6	16.7	15.5	14.6	13.4	13.0	12.1	12.1	12.1
50°	18.0	16.7	15.9	15.1	14.2	13.0	12.1	11.7	11.3	11.3	11.7
52.5°	16.7	15.5	14.6	13.8	13.0	12.1	11.3	10.9	10.9	11.3	11.7
55°	15.5	14.2	13.4	12.5	11.7	11.3	10.5	10.5	10.9	11.3	11.7
57.5°	14.6	13.0	12.1	11.7	10.9	10.5	10.5	10.5	10.9	11.3	12.1
60°	13.4	11.7	10.9	10.9	10.0	10.0	10.0	10.5	10.9	11.7	12.1
62.5°	11.7	10.5	10.0	10.0	9.6	9.6	10.0	10.5	11.3	11.7	12.1
65°	10.0	9.2	9.2	9.2	9.2	9.6	10.0	10.5	10.9	11.7	12.1
66°	9.2	8.8	8.8	9.2	9.2	9.6	10.0	10.5	10.9	11.3	11.7
67.5°	8.8	8.4	8.4	8.8	9.2	9.2	9.6	10.5	10.9	11.3	11.3
70°	7.5	7.5	7.5	8.4	8.8	9.2	9.6	10.0	10.5	10.9	11.3
72.5°	6.7	6.7	7.1	7.5	8.4	8.8	9.2	9.6	10.5	10.9	10.9
75°	5.9	5.9	6.7	7.1	7.9	8.4	9.2	9.6	10.0	10.5	10.5
77.5°	5.0	5.4	6.3	7.1	7.5	8.4	8.8	9.2	9.6	10.0	10.0
80°	4.6	5.4	6.3	6.7	7.1	7.5	7.9	8.8	9.2	9.6	10.0
82.5°	4.6	5.0	5.9	6.3	6.7	7.5	7.9	8.4	8.8	9.2	9.6
85°	3.8	4.6	5.0	5.9	6.3	7.1	7.5	7.5	7.9	8.4	8.8
87.5°	2.9	3.3	3.3	4.2	4.6	5.4	6.3	6.3	6.7	7.1	7.5
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°	60.6	60.6	60.6	60.6
2.5°	57.7	58.1	58.1	58.1
5°	55.2	55.2	55.2	55.2
7.5°	52.3	52.3	52.3	52.3
10°	49.3	49.3	49.7	49.3
12.5°	46.8	46.4	46.4	46.4
15°	43.9	43.9	43.5	43.9
17.5°	41.0	41.0	40.6	40.6
20°	38.0	38.0	38.0	38.0
22.5°	35.5	35.1	35.1	35.1
25°	32.6	32.6	32.6	32.6
27.5°	30.1	30.1	30.1	30.1
30°	27.6	27.6	27.2	27.2
32.5°	25.1	25.1	25.1	25.1
35°	22.6	22.6	22.2	22.2
37.5°	19.6	19.6	19.6	19.6
40°	17.1	17.1	17.1	17.1
42.5°	15.1	15.1	14.6	14.6
45°	13.0	13.0	13.0	13.0
47.5°	12.1	12.1	12.1	12.1
50°	11.7	12.1	12.1	12.1
52.5°	12.1	12.1	12.1	12.1
55°	12.1	12.5	12.5	12.5
57.5°	12.1	12.5	12.5	13.0
60°	12.5	13.0	13.0	13.0
62.5°	12.5	13.0	13.0	13.0
65°	12.1	12.5	12.5	12.5
66°	12.1	12.1	12.1	12.5
67.5°	11.7	12.1	12.1	12.1
70°	11.3	11.7	11.7	12.1
72.5°	11.3	11.7	11.7	11.7
75°	10.9	10.9	11.3	11.3
77.5°	10.5	10.5	10.9	10.9
80°	10.0	10.5	10.5	10.5
82.5°	9.6	10.0	10.0	10.0
85°	8.8	9.2	9.2	9.2
87.5°	7.5	7.5	7.9	7.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)