

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: P180846

Luminaire Tested: **ICS-E04-LED-E1-SL4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180846
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-E04-LED-E1-SL4-HSS-8030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6182.8 lumens
Efficiency: N/A
Efficacy: 63.6 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

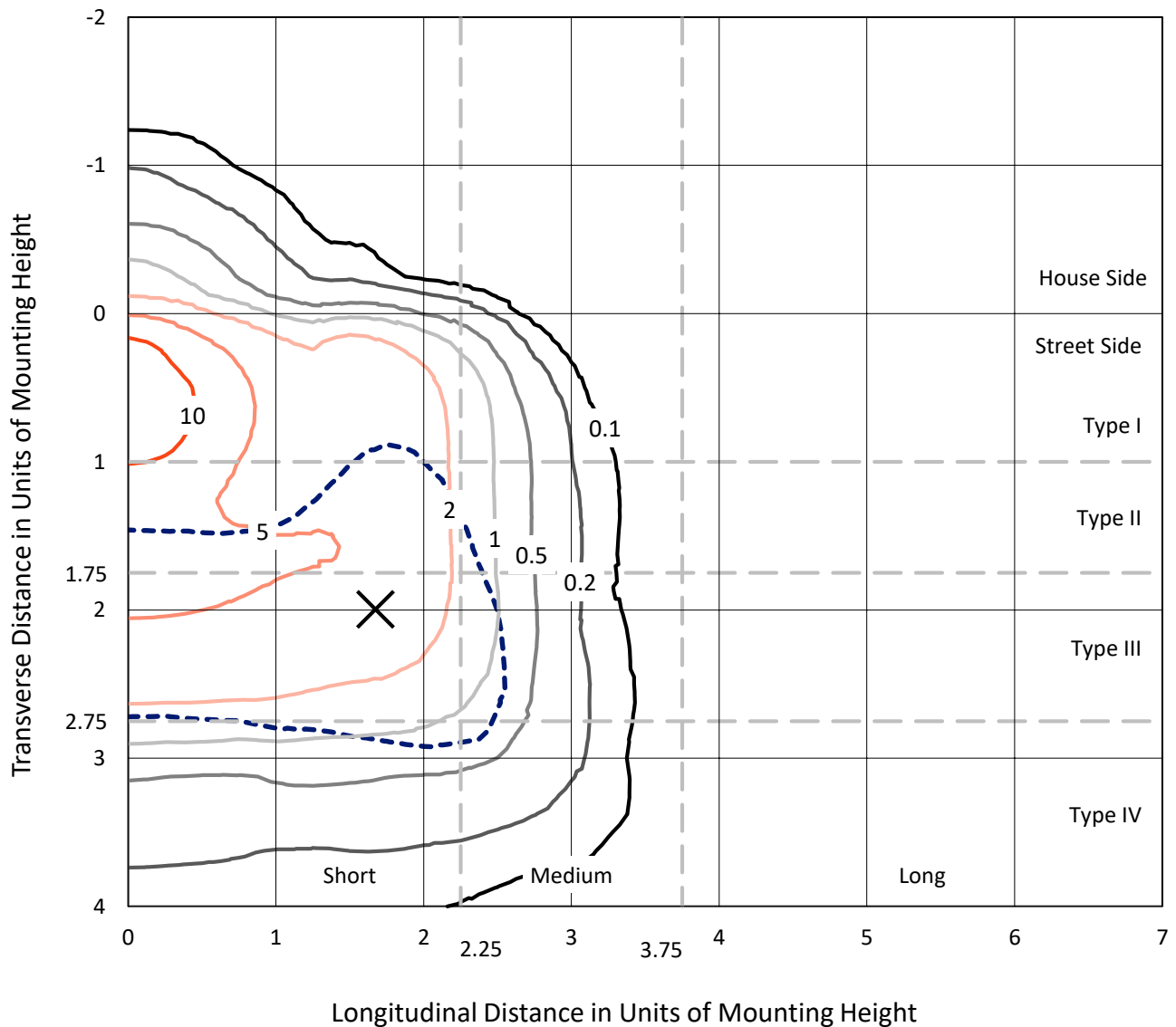
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

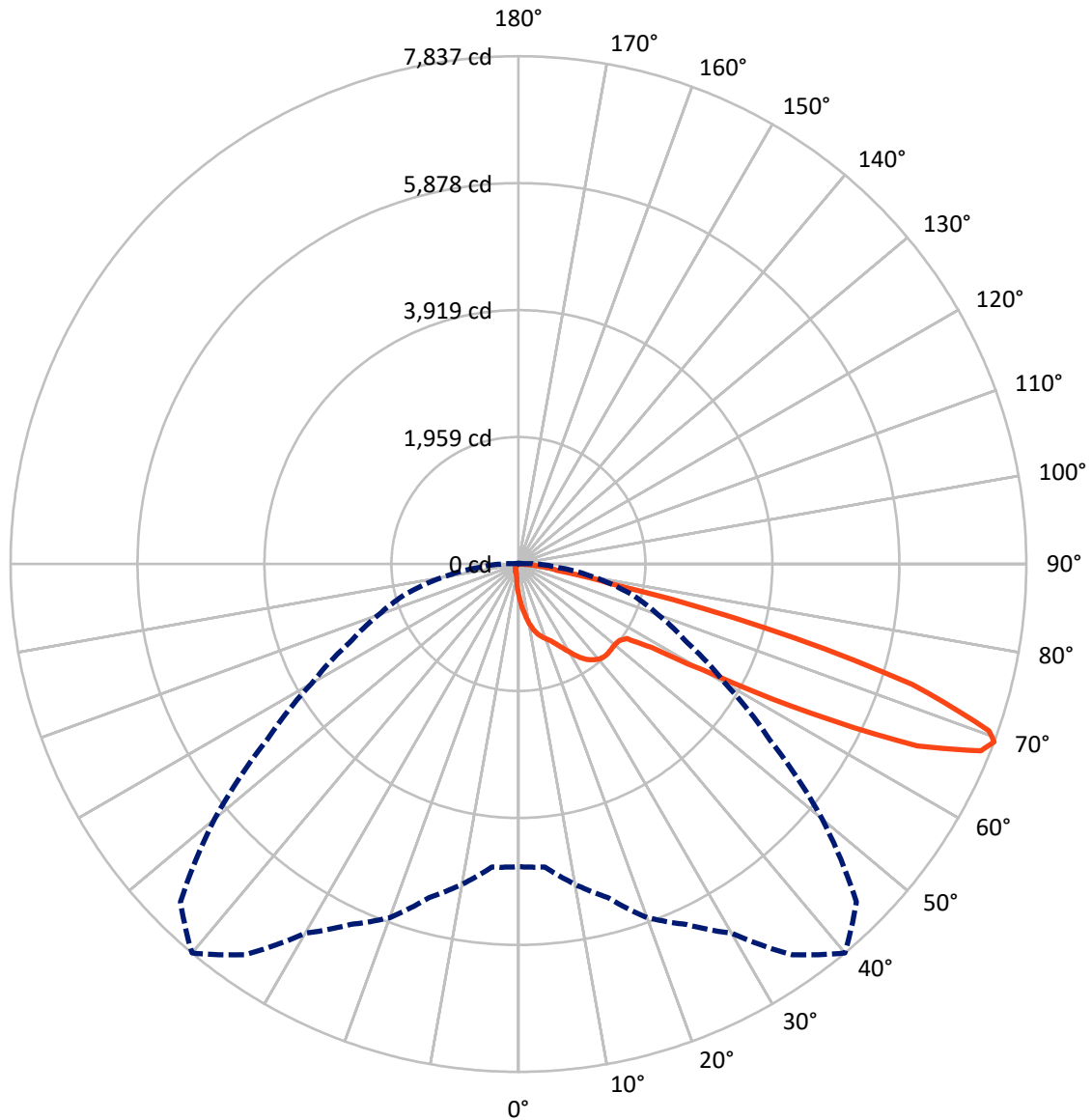
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 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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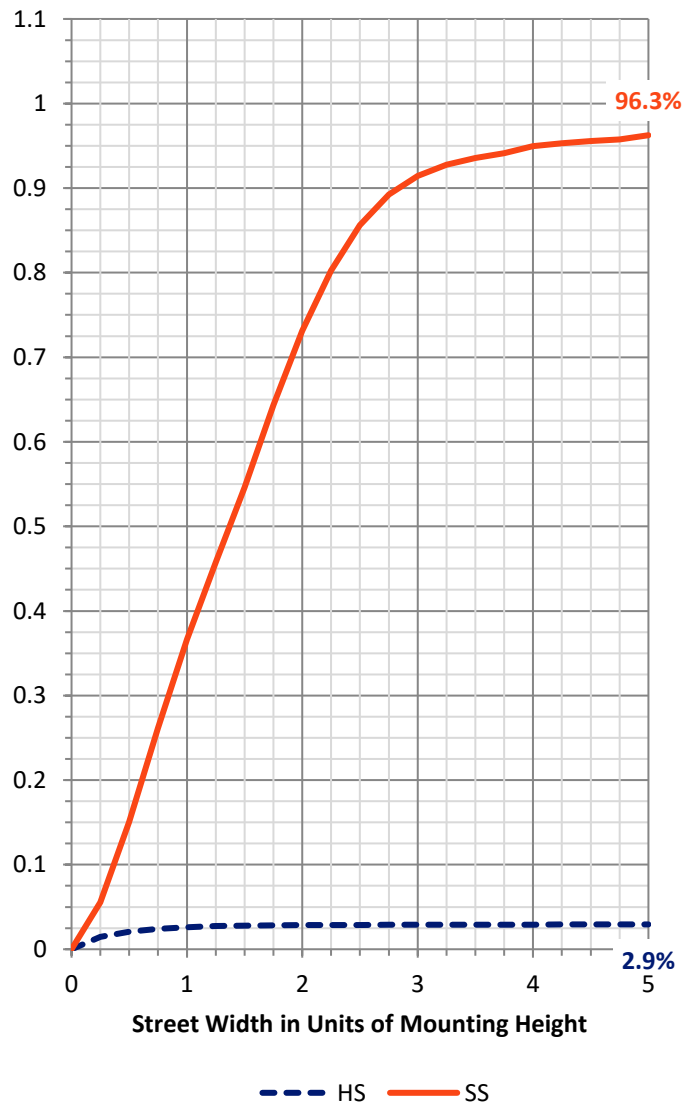
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	184.1	0.0	184.1
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	5998.7	0.0	5998.7
	% Fixture	97.0	0.0	97.0
Total	Lumens	6182.8	0.0	6182.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	0.8
10°-20°	165.5	2.7
20°-30°	316.7	5.1
30°-40°	526.7	8.5
40°-50°	712.7	11.5
50°-60°	1114.5	18.0
60°-70°	2291.5	37.1
70°-80°	922.0	14.9
80°-90°	85.3	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°	6182.8	100.0
0°-180°	6182.8	100.0



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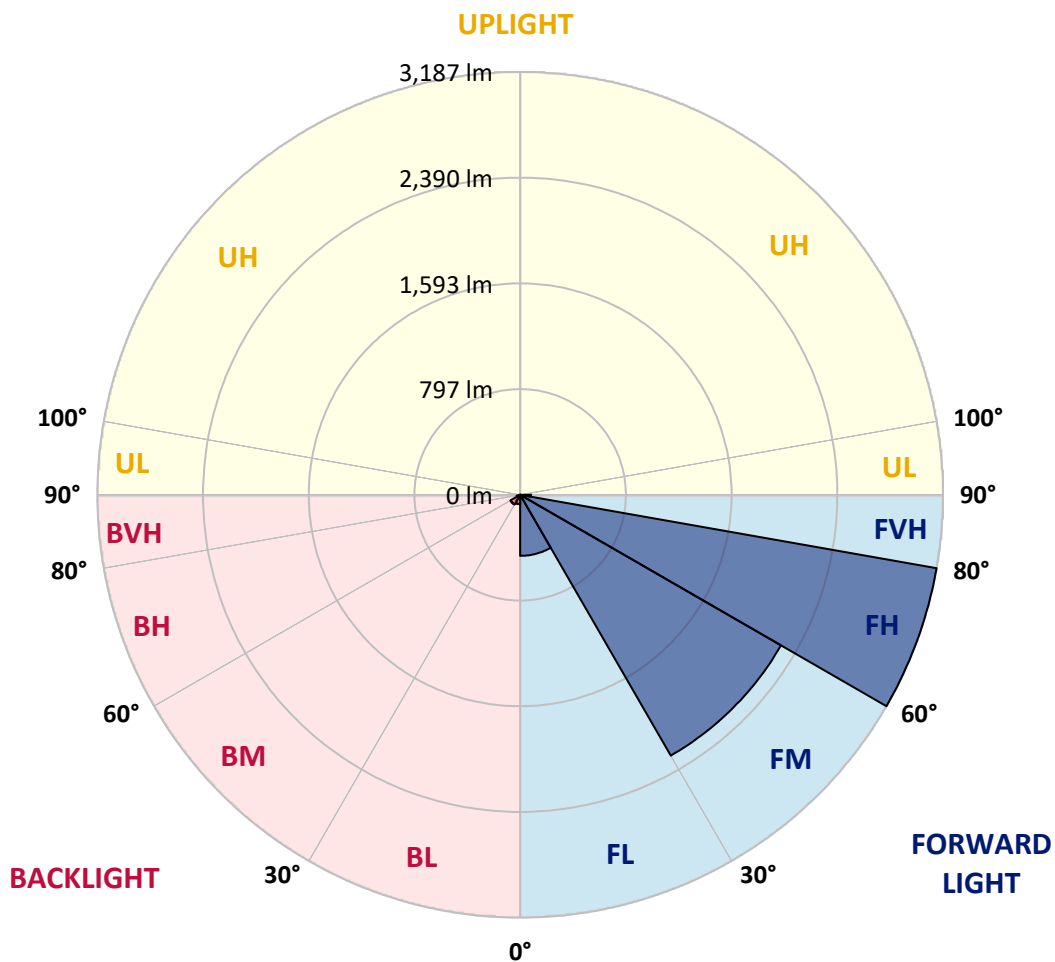
CATALOG NUMBER: ICS-E04-LED-E1-SL4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	460.1	7.4			
FM	(30°-60°)	2269.8	36.7			
FH	(60°-80°)	3186.7	51.5			G2/5000
FVH	(80°-90°)	82.1	1.3			G1/100
BL	(0°-30°)	70.0	1.1	B0/110		
BM	(30°-60°)	84.1	1.4	B0/220		
BH	(60°-80°)	26.9	0.4	B0/110		G0/110
BVH	(80°-90°)	3.2	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°	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9
2.5°	622.9	615.8	607.7	607.7	597.6	597.6	591.5	575.3	573.3	564.2	555.0
5°	795.1	789.0	778.9	769.8	761.7	747.5	737.4	718.1	696.8	676.6	658.3
7.5°	963.2	960.2	941.9	938.9	925.7	902.4	882.2	853.8	817.4	789.0	755.6
10°	1119.2	1112.1	1108.1	1090.8	1071.6	1046.3	1014.9	980.4	937.9	893.3	845.7
12.5°	1242.8	1238.7	1220.5	1213.4	1193.1	1167.8	1128.3	1083.7	1041.2	983.5	927.8
15°	1334.9	1327.8	1315.7	1304.5	1280.2	1258.0	1221.5	1172.9	1121.2	1058.4	991.6
17.5°	1411.9	1398.7	1395.7	1378.5	1353.2	1326.8	1286.3	1241.7	1181.0	1118.2	1045.3
20°	1515.2	1497.0	1490.9	1465.6	1436.2	1399.8	1353.2	1297.5	1233.6	1164.8	1089.8
22.5°	1636.8	1623.6	1610.4	1588.1	1550.7	1499.0	1431.1	1370.4	1289.4	1213.4	1132.4
25°	1808.9	1797.8	1776.5	1746.1	1699.6	1637.8	1555.7	1466.6	1371.4	1274.2	1179.0
27.5°	1976.1	1965.9	1950.7	1927.4	1874.8	1806.9	1705.6	1592.2	1471.7	1354.2	1248.8
30°	2133.0	2123.9	2108.7	2085.4	2038.9	1972.0	1857.6	1736.0	1586.1	1449.4	1322.8
32.5°	2302.2	2299.2	2281.9	2248.5	2208.0	2117.9	1993.3	1862.6	1710.7	1552.7	1404.8
35°	2493.6	2470.3	2454.1	2420.7	2351.8	2255.6	2109.8	1966.9	1806.9	1644.9	1479.8
37.5°	2655.7	2633.4	2613.1	2570.6	2486.5	2364.0	2198.9	2041.9	1876.8	1711.7	1543.6
40°	2774.2	2763.0	2738.7	2683.0	2588.8	2443.0	2264.7	2093.5	1927.4	1761.3	1595.2
42.5°	2862.3	2845.1	2817.7	2760.0	2648.6	2482.5	2291.1	2114.8	1950.7	1791.7	1628.7
45°	2894.7	2880.5	2855.2	2792.4	2671.9	2493.6	2290.0	2108.7	1951.8	1800.8	1650.9
47.5°	2875.5	2861.3	2839.0	2780.3	2661.8	2480.5	2271.8	2091.5	1941.6	1803.9	1671.2
50°	2811.7	2803.6	2786.3	2736.7	2630.4	2455.1	2255.6	2082.4	1939.6	1819.1	1699.6
52.5°	2805.6	2800.5	2779.2	2729.6	2621.2	2447.0	2253.6	2087.5	1956.8	1838.3	1719.8
55°	3428.5	3356.6	3195.5	3058.8	2833.9	2566.5	2355.9	2169.5	2029.7	1914.3	1831.2
57.5°	4872.8	4765.4	4553.7	4293.4	3776.9	3269.5	2863.3	2569.6	2424.7	2372.1	2403.5
60°	5549.4	5530.1	5496.7	5373.1	5108.8	4672.3	4186.1	3660.4	3449.7	3431.5	3495.3
62.5°	5870.4	5858.3	5868.4	5853.2	5771.2	5643.6	5503.8	5276.9	5068.3	4933.6	4647.9
65°	6018.3	6026.4	6084.2	6129.7	6139.9	6173.3	6275.6	6558.2	6764.8	6417.4	5624.3
67.5°	5642.6	5690.2	5822.8	5988.9	6183.4	6371.8	6675.7	7271.2	7695.6	7287.4	6161.1
69°	4671.2	4694.5	5018.6	5331.6	5806.6	6138.8	6579.4	7360.3	7837.4	7376.5	6118.6
70°	3677.6	3698.9	4046.3	4471.7	5274.9	5702.3	6278.6	7209.4	7704.7	7258.0	5899.8
72.5°	1659.0	1628.7	1751.2	1979.1	2852.2	3530.8	4538.6	5841.1	6356.6	5814.7	4414.0
75°	1158.7	1145.5	1158.7	1159.7	1295.4	1671.2	2108.7	3166.2	3915.7	3378.8	2108.7
77.5°	897.4	888.3	879.1	869.0	885.2	991.6	1034.1	1123.2	1458.5	1379.5	804.2
80°	710.0	701.9	724.2	717.1	717.1	729.2	721.1	687.7	624.9	579.3	518.6
82.5°	330.2	332.2	332.2	360.6	434.5	507.4	530.7	497.3	441.6	375.8	302.8
85°	31.4	35.4	59.8	92.2	183.3	206.6	207.6	172.2	172.2	135.7	109.4
87.5°	0.0	1.0	1.0	1.0	9.1	25.3	21.3	6.1	3.0	3.0	5.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9
2.5°	538.8	535.8	523.6	511.5	500.3	488.2	477.0	465.9	453.8	444.6	433.5
5°	630.0	607.7	582.4	558.1	533.8	508.4	482.1	458.8	434.5	412.2	391.0
7.5°	722.2	678.6	644.2	600.6	561.1	521.6	485.2	447.7	413.2	380.8	350.4
10°	800.1	747.5	693.8	638.1	581.4	528.7	478.1	433.5	387.9	348.4	310.9
12.5°	864.0	797.1	731.3	661.4	597.6	530.7	467.9	414.3	360.6	316.0	277.5
15°	921.7	844.7	765.7	684.7	603.7	527.7	457.8	391.0	336.3	285.6	242.1
17.5°	968.3	880.2	791.0	699.9	612.8	523.6	444.6	374.8	310.9	258.3	215.7
20°	1008.8	916.6	820.4	718.1	618.8	522.6	433.5	354.5	288.7	233.0	191.4
22.5°	1046.3	954.1	850.8	741.4	628.0	521.6	423.4	339.3	269.4	213.7	172.2
25°	1088.8	991.6	883.2	765.7	644.2	525.7	417.3	327.1	252.2	195.5	157.0
27.5°	1136.4	1034.1	921.7	796.1	665.4	533.8	415.3	314.0	237.0	178.3	144.8
30°	1203.3	1084.8	960.2	826.5	684.7	542.9	413.2	305.9	221.8	165.1	132.7
32.5°	1262.0	1134.4	1002.7	857.9	706.0	552.0	412.2	294.7	207.6	151.9	123.6
35°	1323.8	1180.0	1039.2	888.3	724.2	562.1	411.2	286.6	194.5	138.8	114.5
37.5°	1377.5	1218.5	1067.5	914.6	744.4	571.2	412.2	279.5	182.3	127.6	106.3
40°	1423.0	1258.0	1098.9	938.9	765.7	585.4	413.2	272.5	170.2	117.5	99.3
42.5°	1463.6	1295.4	1132.4	966.3	790.0	601.6	419.3	266.4	160.0	108.4	92.2
45°	1495.0	1329.9	1168.8	1004.7	829.5	628.0	430.5	262.3	149.9	100.3	86.1
47.5°	1527.4	1380.5	1230.6	1065.5	887.3	669.5	449.7	261.3	141.8	94.2	81.0
50°	1571.9	1431.1	1285.3	1127.3	939.9	712.0	473.0	262.3	131.7	88.1	76.0
52.5°	1604.3	1482.8	1356.2	1234.7	1065.5	841.7	563.1	280.6	126.6	83.1	69.9
55°	1795.8	1774.5	1777.5	1797.8	1667.1	1432.2	941.9	405.1	148.9	94.2	68.9
57.5°	2532.1	2607.1	2650.6	2649.6	2433.9	2018.6	1265.0	520.6	166.1	109.4	82.0
60°	3500.4	3443.7	3363.7	3166.2	2879.5	2304.2	1414.9	560.1	143.8	87.1	75.0
62.5°	4356.2	4024.0	3729.3	3409.2	3033.5	2403.5	1445.3	557.1	125.6	65.8	52.7
65°	4890.0	4292.4	3816.4	3415.3	2972.7	2320.4	1367.3	511.5	106.3	53.7	43.6
67.5°	5017.6	4147.6	3474.1	2962.6	2483.5	1805.9	1003.7	384.9	83.1	44.6	38.5
69°	4739.1	3686.8	2878.5	2298.1	1806.9	1198.2	620.9	243.1	63.8	40.5	35.4
70°	4359.3	3206.7	2344.7	1844.4	1338.0	841.7	434.5	171.2	51.7	37.5	32.4
72.5°	2804.6	1684.4	1152.6	802.2	552.0	335.3	170.2	77.0	39.5	31.4	26.3
75°	1087.8	622.9	451.7	343.4	268.4	186.4	103.3	49.6	33.4	26.3	20.3
77.5°	535.8	410.2	335.3	229.9	133.7	83.1	55.7	38.5	27.3	19.2	13.2
80°	423.4	281.6	168.1	104.3	79.0	59.8	42.5	31.4	20.3	12.2	9.1
82.5°	216.7	118.5	87.1	70.9	58.7	46.6	34.4	22.3	13.2	8.1	7.1
85°	67.9	49.6	44.6	43.6	40.5	33.4	24.3	14.2	8.1	5.1	5.1
87.5°	5.1	7.1	9.1	7.1	8.1	7.1	9.1	6.1	4.1	4.1	3.0
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°	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9
2.5°	425.4	413.2	402.1	395.0	381.8	376.8	371.7	369.7	360.6	362.6	354.5
5°	371.7	350.4	334.2	318.0	302.8	291.7	282.6	271.4	262.3	258.3	250.2
7.5°	323.1	295.8	274.5	257.3	239.0	224.9	212.7	204.6	196.5	188.4	184.3
10°	280.6	251.2	226.9	209.7	192.4	180.3	171.2	165.1	160.0	157.0	156.0
12.5°	241.1	212.7	190.4	175.2	162.1	156.0	151.9	148.9	147.9	146.9	146.9
15°	210.7	182.3	165.1	154.0	147.9	144.8	143.8	141.8	139.8	138.8	138.8
17.5°	182.3	161.0	148.9	142.8	139.8	137.7	135.7	133.7	131.7	130.7	130.7
20°	163.1	145.8	139.8	135.7	132.7	130.7	127.6	125.6	124.6	123.6	122.6
22.5°	147.9	136.7	132.7	129.6	125.6	122.6	120.5	118.5	116.5	115.5	114.5
25°	136.7	129.6	126.6	122.6	118.5	115.5	112.4	109.4	107.4	106.3	104.3
27.5°	128.6	123.6	119.5	114.5	110.4	107.4	104.3	101.3	99.3	97.2	96.2
30°	121.5	116.5	111.4	107.4	102.3	99.3	95.2	92.2	91.2	89.1	87.1
32.5°	114.5	109.4	104.3	99.3	94.2	90.1	88.1	84.1	82.0	81.0	79.0
35°	106.3	101.3	95.2	91.2	86.1	82.0	79.0	76.0	73.9	71.9	70.9
37.5°	99.3	93.2	87.1	82.0	78.0	73.9	70.9	67.9	65.8	63.8	62.8
40°	91.2	85.1	79.0	73.9	69.9	66.8	63.8	60.8	58.7	57.7	57.7
42.5°	84.1	77.0	70.9	66.8	63.8	59.8	56.7	53.7	52.7	51.7	52.7
45°	77.0	69.9	64.8	60.8	57.7	53.7	50.6	48.6	47.6	48.6	49.6
47.5°	70.9	63.8	58.7	55.7	52.7	49.6	46.6	44.6	44.6	46.6	48.6
50°	64.8	57.7	53.7	51.7	48.6	45.6	41.5	40.5	41.5	43.6	45.6
52.5°	58.7	50.6	47.6	46.6	43.6	40.5	37.5	36.5	37.5	39.5	38.5
55°	52.7	44.6	43.6	42.5	39.5	35.4	32.4	32.4	32.4	31.4	29.4
57.5°	50.6	39.5	38.5	37.5	34.4	30.4	28.4	26.3	25.3	22.3	21.3
60°	52.7	35.4	35.4	33.4	30.4	26.3	23.3	20.3	18.2	16.2	16.2
62.5°	42.5	32.4	31.4	29.4	25.3	21.3	18.2	15.2	14.2	13.2	13.2
65°	34.4	29.4	27.3	24.3	21.3	17.2	14.2	12.2	11.1	11.1	12.2
67.5°	31.4	26.3	23.3	20.3	17.2	13.2	11.1	10.1	10.1	11.1	11.1
69°	29.4	24.3	21.3	18.2	15.2	12.2	10.1	10.1	10.1	10.1	11.1
70°	27.3	23.3	20.3	17.2	13.2	10.1	9.1	9.1	10.1	10.1	11.1
72.5°	21.3	18.2	17.2	14.2	10.1	9.1	8.1	9.1	9.1	10.1	10.1
75°	16.2	13.2	13.2	11.1	8.1	7.1	7.1	8.1	8.1	9.1	9.1
77.5°	11.1	9.1	9.1	8.1	7.1	6.1	6.1	7.1	8.1	8.1	9.1
80°	8.1	7.1	6.1	7.1	6.1	5.1	6.1	7.1	7.1	8.1	8.1
82.5°	6.1	6.1	6.1	6.1	5.1	5.1	6.1	6.1	7.1	8.1	8.1
85°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.1	6.1	7.1	7.1
87.5°	3.0	3.0	3.0	4.1	4.1	5.1	5.1	5.1	5.1	6.1	6.1
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°	466.9	466.9	466.9	466.9
2.5°	352.5	351.5	347.4	348.4
5°	247.1	241.1	245.1	244.1
7.5°	181.3	180.3	179.3	181.3
10°	155.0	155.0	154.0	155.0
12.5°	145.8	145.8	145.8	145.8
15°	138.8	138.8	137.7	137.7
17.5°	130.7	130.7	130.7	129.6
20°	122.6	121.5	121.5	121.5
22.5°	113.4	112.4	112.4	112.4
25°	104.3	103.3	103.3	103.3
27.5°	95.2	94.2	93.2	93.2
30°	86.1	85.1	84.1	84.1
32.5°	77.0	76.0	75.0	75.0
35°	68.9	68.9	67.9	66.8
37.5°	61.8	61.8	61.8	61.8
40°	56.7	57.7	57.7	57.7
42.5°	53.7	54.7	55.7	56.7
45°	51.7	53.7	54.7	54.7
47.5°	50.6	51.7	52.7	52.7
50°	46.6	45.6	45.6	45.6
52.5°	37.5	35.4	34.4	33.4
55°	27.3	26.3	24.3	24.3
57.5°	19.2	19.2	18.2	18.2
60°	15.2	15.2	14.2	15.2
62.5°	13.2	13.2	13.2	13.2
65°	12.2	12.2	12.2	12.2
67.5°	12.2	12.2	12.2	12.2
69°	11.1	11.1	11.1	11.1
70°	11.1	11.1	11.1	11.1
72.5°	10.1	10.1	10.1	10.1
75°	9.1	10.1	10.1	10.1
77.5°	9.1	9.1	9.1	9.1
80°	8.1	8.1	9.1	9.1
82.5°	8.1	8.1	8.1	8.1
85°	7.1	7.1	8.1	8.1
87.5°	6.1	6.1	7.1	7.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)