

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: P180568

Luminaire Tested: **ICM-E02-LED-E1-SL3-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180568
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E02-LED-E1-SL3-HSS
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3225.7 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 52.1
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

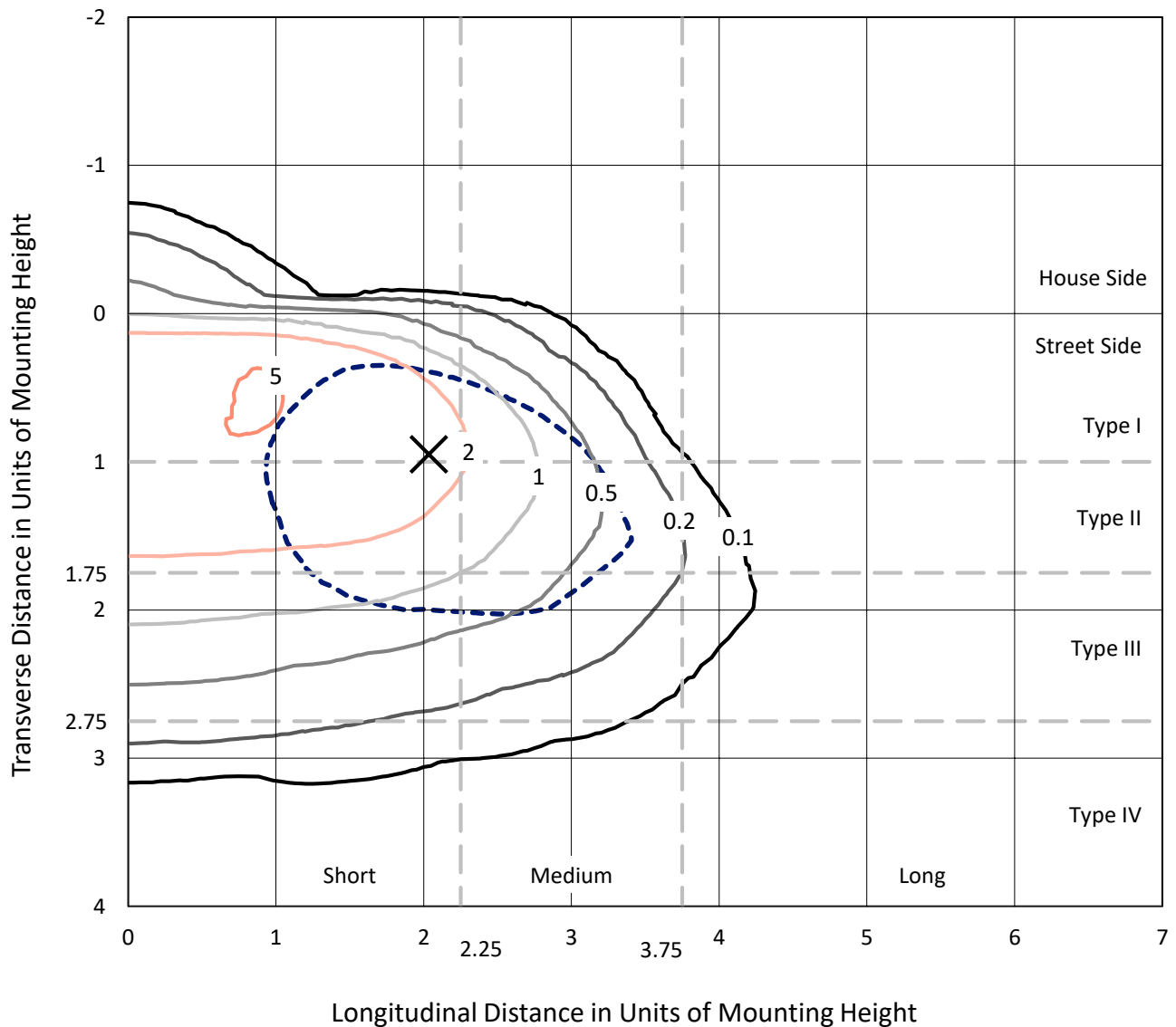


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

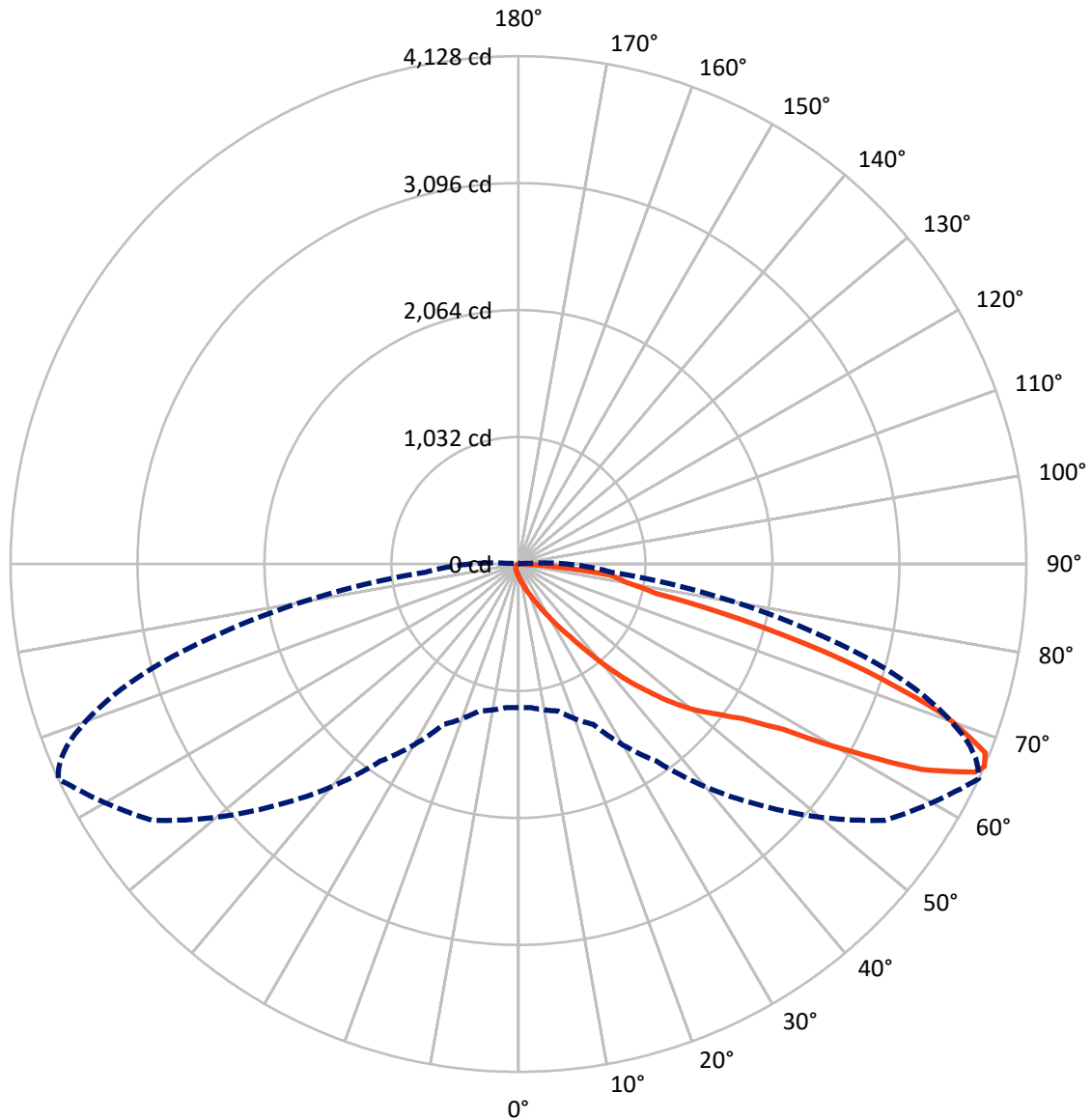


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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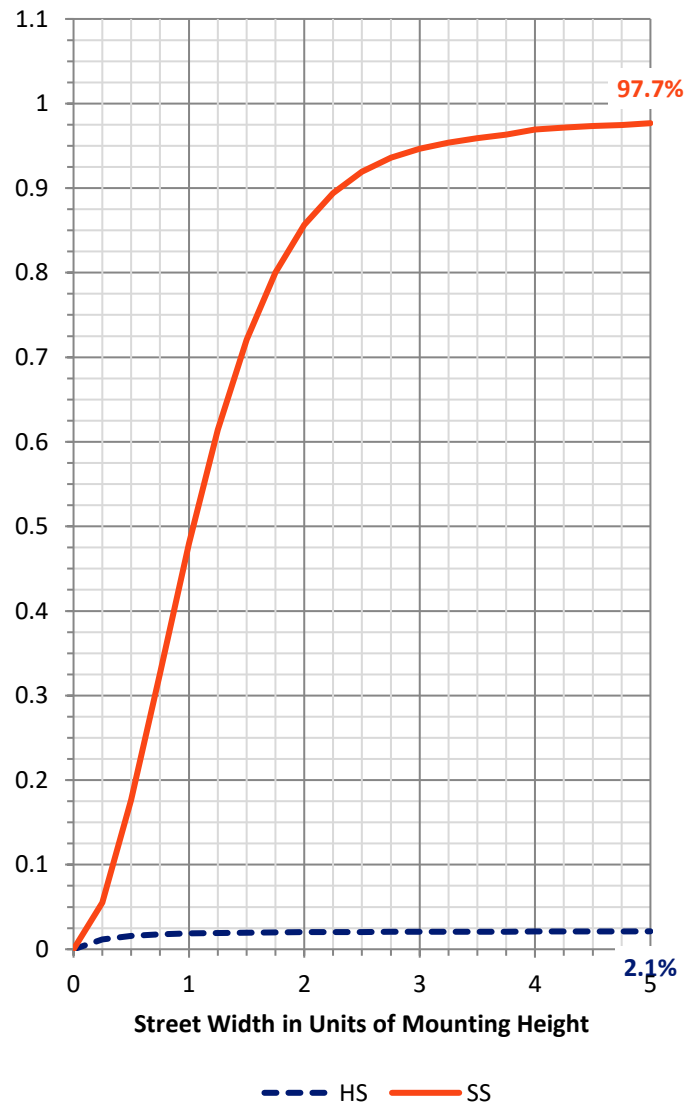
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	69.9	0.0	69.9
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	3155.8	0.0	3155.8
	% Fixture	97.8	0.0	97.8
Total	Lumens	3225.7	0.0	3225.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.9	0.3
10°-20°	46.2	1.4
20°-30°	99.7	3.1
30°-40°	212.9	6.6
40°-50°	470.8	14.6
50°-60°	797.8	24.7
60°-70°	1064.6	33.0
70°-80°	468.9	14.5
80°-90°	54.0	1.7
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°	3225.7	100.0
0°-180°	3225.7	100.0



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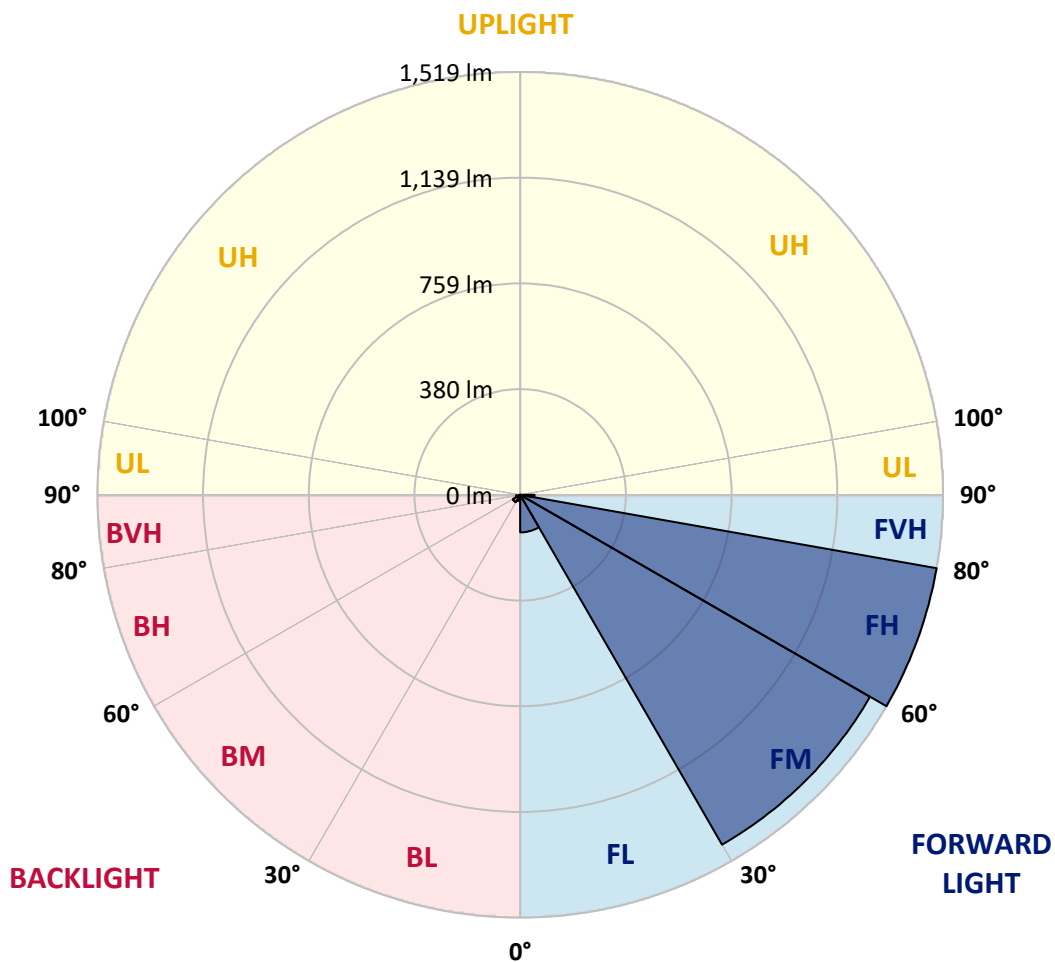
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	134.7	4.2			
FM	(30°-60°)	1450.7	45.0			
FH	(60°-80°)	1518.5	47.1			G1/1800
FVH	(80°-90°)	51.9	1.6			G1/100
BL	(0°-30°)	22.1	0.7	B0/110		
BM	(30°-60°)	30.7	1.0	B0/220		
BH	(60°-80°)	15.0	0.5	B0/110		G0/110
BVH	(80°-90°)	2.2	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
2.5°	122.8	122.1	119.7	119.7	116.0	113.5	110.4	107.3	107.3	106.7	106.0
5°	162.5	158.8	158.1	151.3	145.8	137.7	130.2	120.3	119.1	117.9	117.2
7.5°	206.5	205.9	200.3	192.3	181.1	166.2	151.3	135.2	132.7	131.4	129.0
10°	263.5	260.5	253.0	239.4	222.6	202.8	178.6	153.2	150.0	147.6	146.3
12.5°	318.1	312.6	308.2	290.9	269.8	240.7	211.4	174.9	172.4	169.3	164.4
15°	369.0	364.0	356.6	341.7	318.1	281.6	247.4	202.8	196.6	192.3	188.6
17.5°	408.7	405.6	396.9	380.2	354.7	322.5	281.6	231.4	226.3	220.7	214.0
20°	446.5	442.1	428.6	405.6	378.3	353.5	321.9	268.6	261.7	254.9	247.4
22.5°	482.5	478.1	455.8	418.0	388.8	378.3	367.2	310.7	300.2	294.6	287.2
25°	532.7	523.4	488.7	428.6	389.5	397.5	416.7	365.3	355.4	347.3	335.5
27.5°	600.3	587.9	533.3	444.0	391.9	418.6	473.8	431.6	421.1	411.8	398.8
30°	676.6	668.6	603.4	481.2	410.0	449.6	537.7	516.0	503.5	492.4	476.9
32.5°	753.5	742.3	677.9	551.9	458.3	509.8	617.7	614.0	597.9	587.3	570.5
35°	821.1	815.5	767.7	667.9	568.7	615.2	724.4	728.7	714.4	703.3	684.7
37.5°	867.0	867.0	857.7	792.6	744.2	778.9	881.2	881.9	867.6	842.1	832.8
40°	890.5	897.4	930.9	943.3	940.7	985.4	1087.2	1076.0	1064.2	1051.2	1020.2
42.5°	938.9	945.1	1016.5	1102.1	1157.9	1216.8	1286.8	1283.1	1268.8	1245.3	1216.8
45°	1020.8	1028.8	1113.8	1249.6	1364.4	1448.1	1492.8	1475.4	1461.1	1438.8	1423.9
47.5°	1124.9	1140.5	1236.6	1404.7	1543.0	1681.2	1727.7	1681.9	1669.5	1652.1	1627.9
50°	1236.0	1250.9	1353.2	1545.4	1701.7	1866.7	1944.2	1866.7	1848.7	1843.1	1815.8
52.5°	1332.1	1344.5	1443.1	1654.0	1823.3	2016.8	2129.6	2027.3	2014.2	1995.6	1975.8
55°	1389.1	1399.1	1491.5	1706.1	1905.8	2151.9	2308.9	2218.9	2199.7	2192.3	2163.7
57.5°	1408.4	1418.3	1501.4	1712.8	1950.4	2275.4	2526.5	2529.6	2506.7	2480.0	2471.4
60°	1408.4	1419.5	1489.6	1696.1	1993.8	2406.8	2816.8	3075.4	3025.8	3020.8	2989.1
62.5°	1350.1	1360.7	1431.4	1644.7	2052.1	2584.2	3221.1	3677.5	3663.3	3631.0	3578.9
65°	1223.5	1229.8	1299.3	1513.2	2029.8	2747.3	3571.5	4078.2	4055.2	3991.9	3925.0
66°	1166.5	1171.4	1236.6	1438.1	1956.6	2769.6	3633.5	4128.4	4090.5	4037.2	3961.6
67.5°	1084.0	1092.8	1138.6	1298.6	1781.1	2692.1	3594.4	4093.0	4060.2	3995.7	3920.0
70°	723.7	717.5	879.4	996.6	1356.9	2193.5	3224.9	3675.1	3675.7	3645.3	3614.9
72.5°	343.5	347.3	394.4	613.3	888.1	1465.4	2566.8	2933.3	2975.6	2920.9	2883.1
75°	246.8	252.4	280.9	375.2	529.6	879.4	1663.9	2051.5	2052.8	1956.0	1869.8
77.5°	71.9	75.1	105.4	231.4	396.9	593.5	955.6	1140.5	1113.8	1044.4	979.3
80°	29.8	29.8	31.0	73.8	159.3	403.1	668.6	878.1	875.1	848.4	810.0
82.5°	11.2	11.8	14.9	30.4	37.9	99.3	445.9	762.1	760.3	722.5	695.2
85°	1.2	1.2	3.7	13.0	14.2	18.6	89.3	336.1	334.2	336.1	294.6
87.5°	0.0	0.0	0.7	1.2	1.9	2.5	3.7	13.0	14.2	13.7	12.4
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
2.5°	106.0	104.8	104.8	104.2	104.2	104.2	103.5	103.0	103.0	102.3	101.7
5°	116.0	114.7	114.1	112.8	112.3	111.6	110.4	109.8	108.6	107.9	107.3
7.5°	127.7	125.3	124.7	122.8	120.9	119.7	118.4	116.6	115.3	112.8	112.3
10°	142.6	139.5	137.0	134.6	132.7	129.6	127.7	125.3	122.8	120.9	119.1
12.5°	161.9	157.5	153.8	151.3	147.0	143.3	139.5	137.7	132.7	130.2	127.2
15°	183.0	178.0	173.7	168.7	165.6	159.3	154.4	148.8	146.3	142.0	137.0
17.5°	210.2	202.1	195.4	190.4	184.2	178.0	172.4	166.8	159.3	154.4	148.2
20°	239.4	232.6	223.3	214.6	207.2	199.7	191.6	184.2	177.4	169.3	161.9
22.5°	276.6	266.7	255.5	246.8	236.9	228.8	217.7	207.7	196.6	186.0	177.4
25°	323.7	310.7	300.2	287.7	276.0	263.5	250.0	237.5	223.3	213.3	198.4
27.5°	382.0	369.6	355.4	339.3	327.4	308.8	290.9	275.4	258.6	243.1	226.3
30°	456.5	438.4	423.5	408.1	384.5	366.5	345.4	324.4	301.4	285.9	260.5
32.5°	545.8	526.5	504.2	481.9	460.2	434.7	408.7	382.6	357.2	328.7	302.6
35°	654.9	631.9	606.5	582.3	548.8	521.6	488.7	452.7	424.2	391.4	358.4
37.5°	799.4	761.6	739.3	713.8	668.6	631.4	594.7	558.8	508.6	473.8	427.3
40°	980.5	958.1	921.6	880.7	839.7	790.7	741.1	693.3	635.1	586.7	532.7
42.5°	1193.2	1160.3	1123.1	1064.2	1022.6	964.9	908.6	845.3	774.0	711.9	648.7
45°	1392.8	1353.8	1325.3	1266.3	1223.0	1154.7	1086.5	1019.5	937.0	857.0	783.9
47.5°	1608.7	1576.5	1529.3	1481.6	1437.5	1360.7	1286.8	1205.6	1118.8	1023.9	929.0
50°	1798.4	1773.0	1740.8	1683.1	1634.1	1569.6	1482.8	1394.1	1284.4	1190.1	1082.1
52.5°	1959.7	1939.8	1894.6	1853.7	1809.6	1748.8	1671.4	1586.3	1467.9	1364.4	1241.6
55°	2150.1	2135.8	2096.1	2070.7	2031.6	1973.3	1900.8	1822.1	1696.8	1583.9	1444.9
57.5°	2462.1	2450.9	2416.1	2405.6	2367.2	2316.3	2227.0	2142.6	1996.3	1856.1	1697.4
60°	2978.6	2956.3	2905.4	2879.4	2798.2	2730.0	2614.0	2498.0	2321.2	2142.6	1951.6
62.5°	3531.8	3469.1	3372.4	3289.3	3174.0	3055.6	2900.5	2723.1	2516.0	2303.9	2084.4
65°	3830.1	3723.5	3601.2	3469.1	3319.7	3145.4	2950.1	2737.4	2514.7	2290.9	2058.9
66°	3864.2	3743.9	3614.3	3467.3	3301.1	3115.6	2917.2	2694.0	2462.6	2244.4	2012.4
67.5°	3821.4	3695.6	3558.4	3395.4	3215.6	3023.3	2814.9	2583.0	2360.3	2138.9	1913.2
70°	3521.9	3396.6	3274.4	3102.6	2911.0	2717.5	2520.3	2261.1	2050.2	1846.8	1645.9
72.5°	2812.4	2727.5	2606.5	2459.5	2272.9	2045.9	1881.6	1649.6	1466.7	1269.5	1113.8
75°	1757.5	1637.9	1488.4	1301.1	1158.4	974.2	878.1	702.1	597.9	506.7	418.6
77.5°	898.6	808.7	703.9	598.4	497.4	396.9	307.0	217.0	146.3	101.7	75.6
80°	742.3	663.0	576.1	480.0	390.7	303.3	218.3	148.8	94.9	62.0	48.4
82.5°	613.3	546.3	468.8	379.5	302.0	238.1	165.6	107.9	67.0	43.4	34.1
85°	261.1	236.9	183.0	145.1	109.1	80.7	56.5	37.9	26.7	21.7	19.8
87.5°	11.2	12.4	11.8	9.3	6.8	6.8	6.2	4.9	4.9	4.9	4.9
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
2.5°	101.7	101.1	100.5	100.5	99.8	99.3	95.5	92.4	88.7	86.2	83.7
5°	106.0	105.4	104.2	103.5	102.3	101.7	93.7	86.8	81.2	76.9	73.8
7.5°	110.4	109.8	107.9	106.0	105.4	104.2	91.2	82.5	75.1	70.0	67.0
10°	116.0	114.1	112.3	109.8	107.9	106.0	88.7	77.5	69.5	65.1	62.0
12.5°	124.0	120.9	117.9	114.7	112.3	109.1	87.4	73.2	65.1	60.2	57.0
15°	133.3	129.0	125.3	121.6	117.2	114.1	84.9	69.5	61.4	56.5	52.7
17.5°	142.0	137.0	131.4	125.9	121.6	117.2	82.5	65.8	57.7	52.7	49.0
20°	154.4	147.0	140.2	133.3	127.2	121.6	78.8	62.0	54.6	49.0	45.3
22.5°	168.1	159.3	150.7	141.4	133.3	125.9	75.6	58.9	51.4	45.9	41.6
25°	185.4	174.9	163.1	151.3	142.0	132.1	72.6	55.8	48.4	42.8	38.4
27.5°	209.6	194.7	181.7	166.8	152.6	141.4	70.0	53.3	45.3	39.7	35.3
30°	242.5	220.7	200.3	184.2	167.4	151.3	67.6	50.2	42.8	36.6	31.6
32.5°	279.1	253.7	230.0	205.9	184.8	166.2	65.1	47.7	39.7	33.5	29.1
35°	324.4	292.1	260.5	232.6	207.2	182.3	62.6	45.3	37.2	30.4	26.0
37.5°	389.5	349.1	307.6	271.6	238.8	205.9	60.7	42.8	34.1	27.3	23.0
40°	478.8	426.7	375.8	326.8	284.0	243.1	58.3	40.3	31.6	24.8	20.5
42.5°	575.5	512.3	445.3	390.0	331.2	279.7	55.8	37.9	29.1	22.3	18.0
45°	695.8	617.0	535.8	460.7	388.8	322.5	53.3	35.3	26.0	19.8	15.5
47.5°	827.3	726.8	635.1	540.7	455.2	375.8	50.2	33.5	23.5	17.4	13.7
50°	962.5	856.5	740.5	633.2	531.4	429.1	47.2	30.4	21.1	15.5	11.2
52.5°	1108.2	983.0	864.5	731.2	612.7	499.3	44.0	27.9	19.3	13.7	9.3
55°	1293.7	1153.5	1014.6	865.1	722.5	580.5	40.9	24.8	16.7	11.8	7.4
57.5°	1526.8	1360.7	1190.1	1021.4	848.4	687.2	38.4	21.7	14.2	10.0	6.2
60°	1747.0	1552.8	1346.3	1152.3	956.9	769.0	34.7	19.3	12.4	8.1	6.2
62.5°	1861.1	1639.7	1417.0	1203.1	994.7	798.1	31.0	16.1	10.5	6.8	5.6
65°	1833.2	1607.5	1391.6	1175.8	971.8	779.5	27.3	14.2	9.3	6.2	5.6
66°	1792.8	1569.6	1352.6	1147.3	952.6	759.7	25.4	13.7	8.7	6.2	4.9
67.5°	1704.8	1489.0	1281.9	1090.9	899.8	721.9	23.0	12.4	8.1	5.6	4.9
70°	1456.1	1260.2	1094.6	924.7	769.0	608.4	18.6	10.5	6.8	4.9	4.9
72.5°	963.7	830.4	720.0	619.5	517.9	401.9	15.5	8.7	5.6	4.9	4.4
75°	363.4	328.7	282.1	253.7	221.4	194.1	12.4	5.6	4.4	4.4	4.4
77.5°	64.5	59.5	52.7	48.4	44.7	40.9	10.0	3.7	3.7	4.4	4.4
80°	43.4	40.3	36.6	33.5	31.0	27.9	6.8	3.1	3.7	3.7	4.4
82.5°	31.0	29.1	27.3	24.8	23.0	20.5	4.4	3.1	3.7	3.7	3.7
85°	18.6	17.4	16.1	14.9	13.0	12.4	3.1	3.1	3.1	3.7	3.7
87.5°	4.9	4.4	4.9	4.9	3.7	4.4	2.5	2.5	2.5	3.1	3.1
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):

	145°	155°	165°	175°	180°
0°	97.4	97.4	97.4	97.4	97.4
2.5°	82.5	82.5	81.2	83.1	83.1
5°	71.3	71.3	70.7	71.3	71.3
7.5°	65.1	64.5	64.5	64.5	65.1
10°	59.5	58.9	58.9	58.9	58.9
12.5°	54.6	54.0	53.3	54.0	54.0
15°	50.2	49.0	49.0	49.0	49.0
17.5°	46.5	45.3	44.7	44.7	44.7
20°	42.8	40.9	40.9	40.9	40.9
22.5°	39.1	37.2	37.2	37.2	37.2
25°	35.3	33.5	33.5	33.5	33.5
27.5°	32.3	30.4	30.4	30.4	30.4
30°	28.6	27.3	27.3	27.9	27.3
32.5°	26.0	24.2	24.2	24.8	24.8
35°	23.0	21.7	21.7	21.7	21.7
37.5°	19.8	18.6	18.6	18.6	18.6
40°	17.4	16.1	15.5	16.1	16.1
42.5°	14.9	13.7	13.0	13.0	13.0
45°	13.0	11.2	10.5	11.2	11.2
47.5°	10.5	9.3	9.3	10.0	10.0
50°	8.1	8.1	8.7	10.0	10.0
52.5°	7.4	7.4	8.7	10.0	10.0
55°	6.8	7.4	8.7	9.3	10.0
57.5°	6.2	7.4	8.7	9.3	9.3
60°	6.2	6.8	8.1	9.3	9.3
62.5°	5.6	6.2	7.4	8.7	8.7
65°	5.6	6.2	7.4	8.7	8.7
66°	5.6	6.2	7.4	8.7	8.7
67.5°	5.6	6.2	7.4	8.7	8.7
70°	5.6	6.2	7.4	8.1	8.1
72.5°	4.9	5.6	6.8	8.1	8.1
75°	4.9	5.6	6.8	8.1	8.1
77.5°	4.9	5.6	6.8	8.1	8.1
80°	4.9	5.6	6.8	7.4	8.1
82.5°	4.4	5.6	6.2	7.4	7.4
85°	4.4	4.9	6.2	6.8	7.4
87.5°	3.7	4.4	4.9	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)