

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: P180573

Luminaire Tested: **ICM-F02-LED-E1-SL3-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180573
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-F02-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: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2663 lumens
Efficiency: N/A
Efficacy: 48.4 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): 55
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

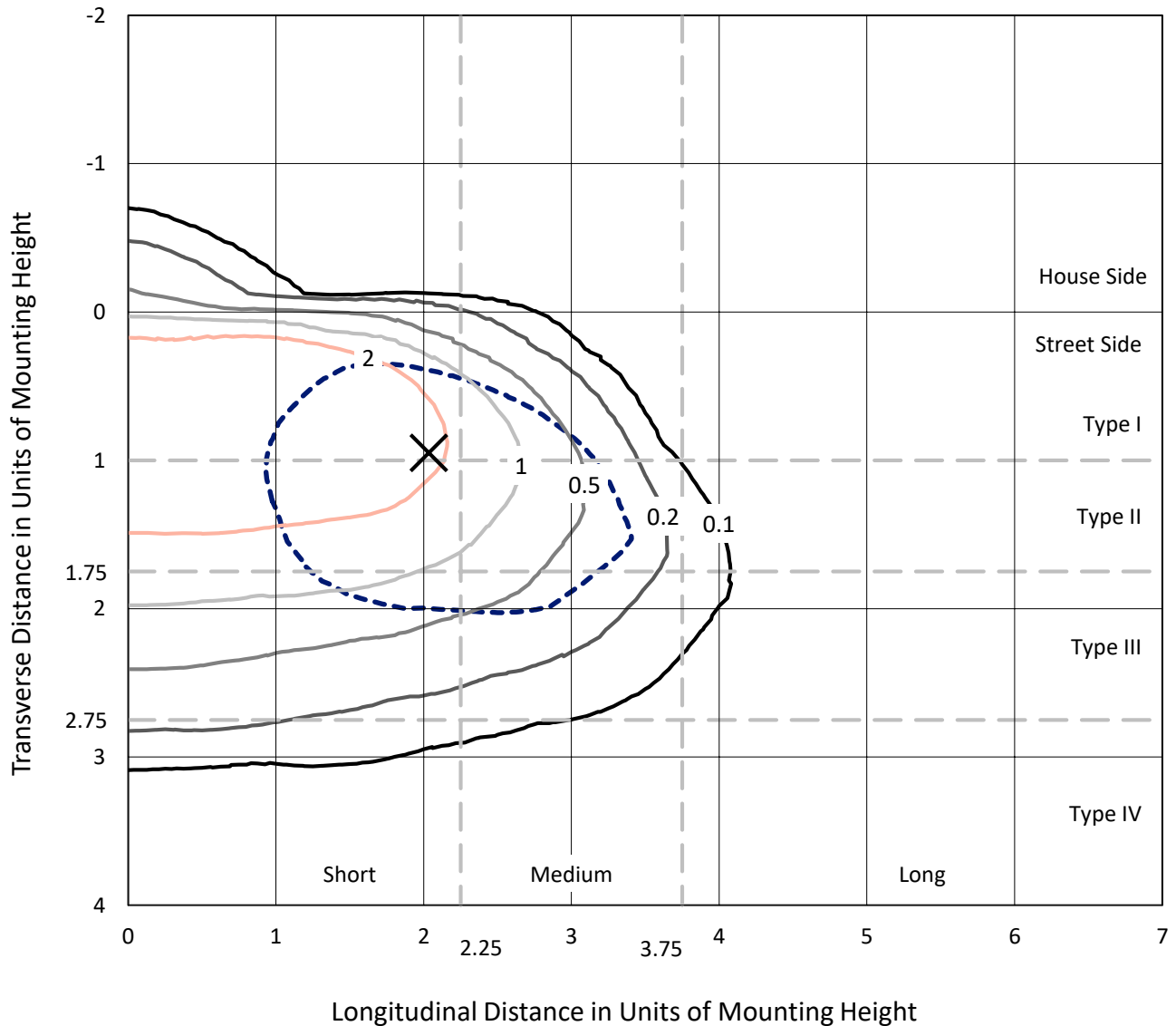


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

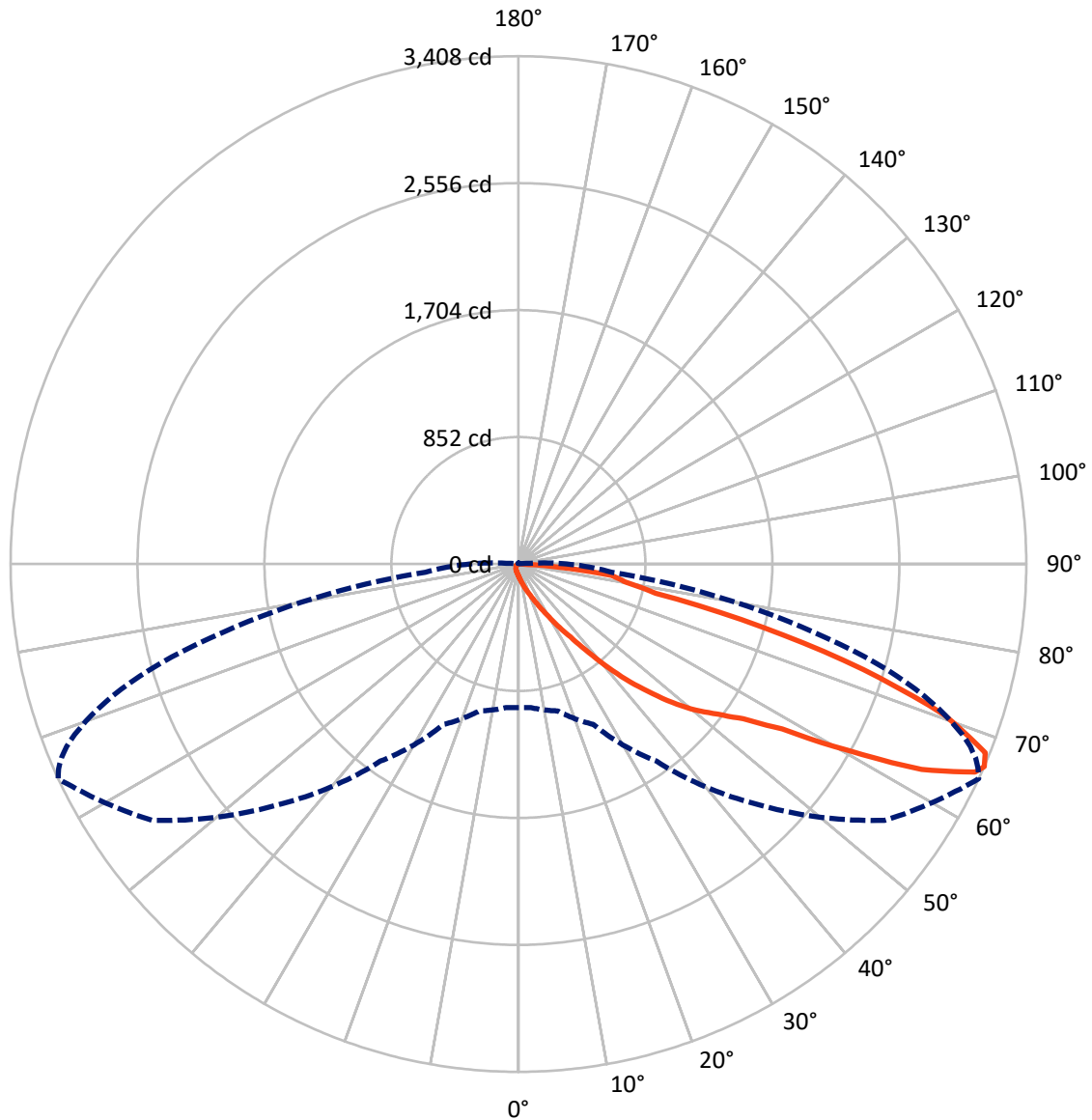


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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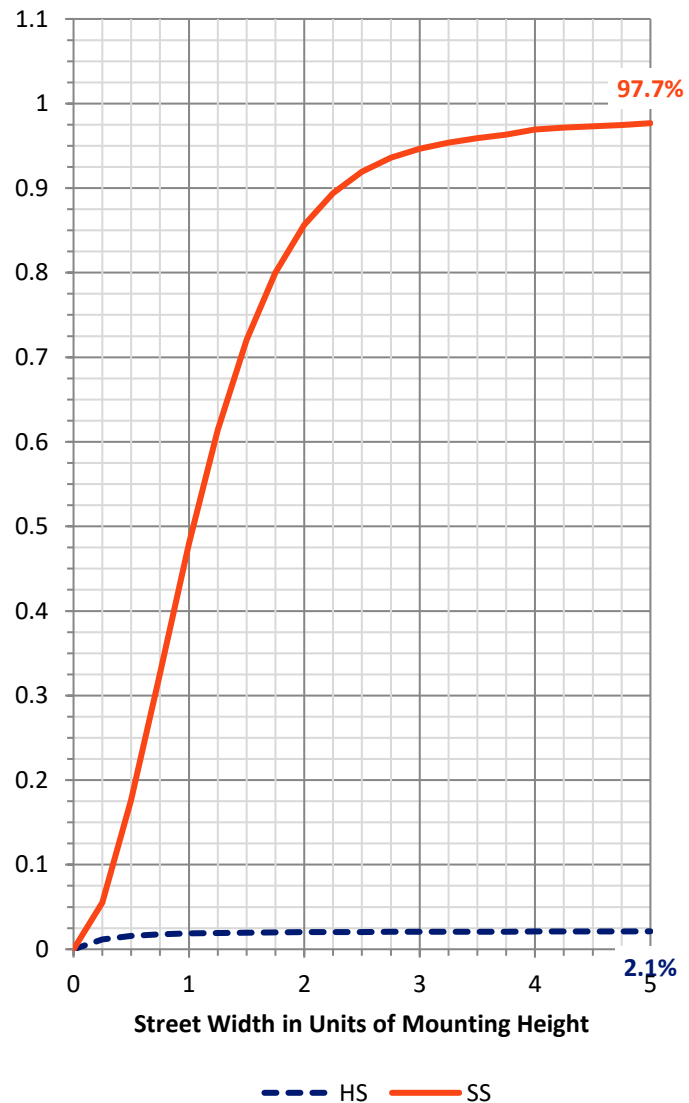
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	57.7	0.0	57.7
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	2605.2	0.0	2605.2
	% Fixture	97.8	0.0	97.8
Total	Lumens	2663.0	0.0	2663.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	0.3
10°-20°	38.2	1.4
20°-30°	82.3	3.1
30°-40°	175.7	6.6
40°-50°	388.6	14.6
50°-60°	658.6	24.7
60°-70°	878.8	33.0
70°-80°	387.1	14.5
80°-90°	44.6	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°	2663.0	100.0
0°-180°	2663.0	100.0



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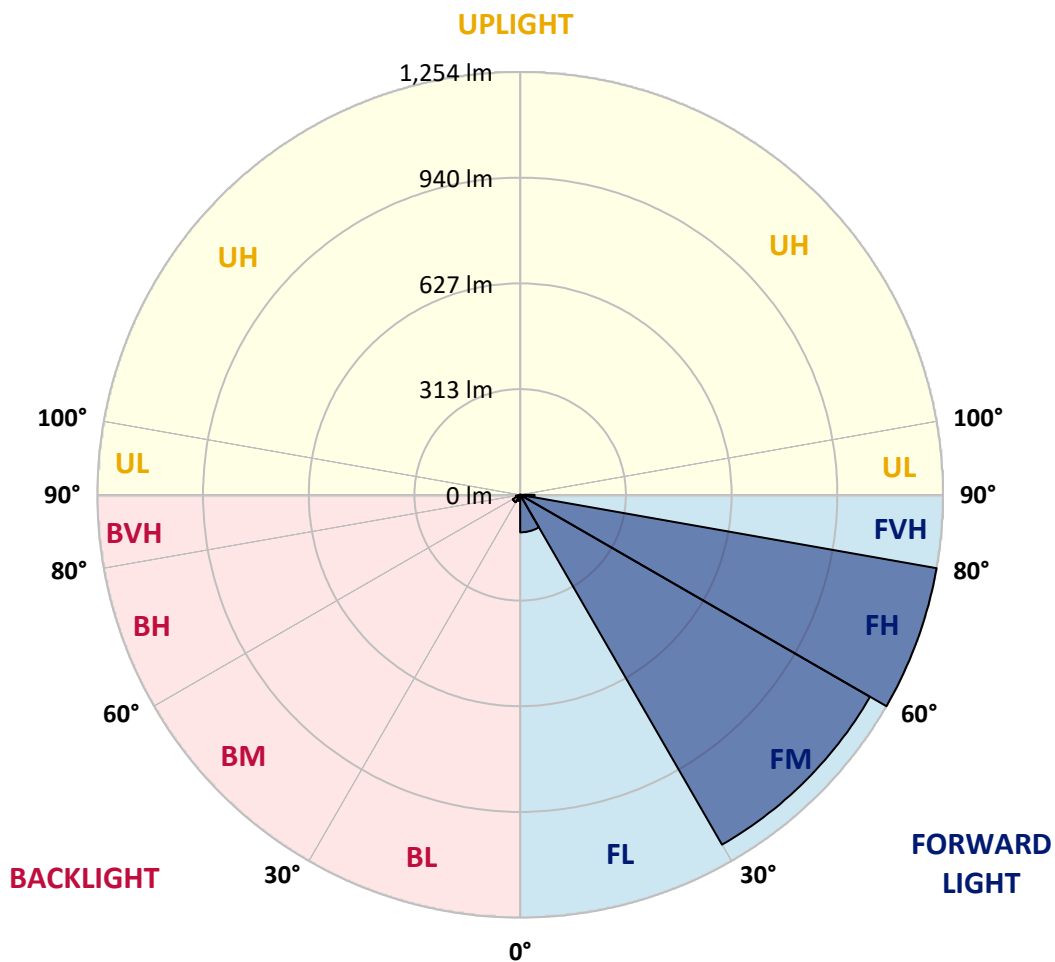
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	111.2	4.2			
FM	(30°-60°)	1197.6	45.0			
FH	(60°-80°)	1253.6	47.1			G1/1800
FVH	(80°-90°)	42.8	1.6			G1/100
BL	(0°-30°)	18.2	0.7	B0/110		
BM	(30°-60°)	25.4	1.0	B0/220		
BH	(60°-80°)	12.4	0.5	B0/110		G0/110
BVH	(80°-90°)	1.8	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°	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
2.5°	101.4	100.8	98.8	98.8	95.7	93.7	91.2	88.6	88.6	88.1	87.5
5°	134.1	131.1	130.5	124.9	120.3	113.7	107.5	99.3	98.3	97.3	96.7
7.5°	170.5	170.0	165.4	158.7	149.5	137.2	124.9	111.6	109.6	108.6	106.5
10°	217.6	215.0	208.8	197.6	183.8	167.4	147.4	126.4	123.9	121.9	120.8
12.5°	262.6	258.0	254.4	240.1	222.7	198.6	174.6	144.4	142.3	139.7	135.6
15°	304.7	300.6	294.4	282.0	262.6	232.5	204.3	167.4	162.3	158.7	155.6
17.5°	337.4	334.8	327.6	313.9	292.8	266.2	232.5	191.0	186.9	182.2	176.7
20°	368.7	365.0	353.8	334.8	312.3	291.8	265.7	221.7	216.0	210.4	204.3
22.5°	398.3	394.7	376.3	345.0	321.0	312.3	303.1	256.5	247.8	243.2	237.0
25°	439.8	432.1	403.4	353.8	321.5	328.2	344.0	301.6	293.4	286.7	276.9
27.5°	495.5	485.3	440.3	366.6	323.5	345.6	391.2	356.3	347.6	339.9	329.2
30°	558.5	551.9	498.1	397.3	338.4	371.2	443.9	426.0	415.7	406.5	393.7
32.5°	622.1	612.8	559.5	455.6	378.3	420.8	509.9	506.8	493.5	484.8	471.0
35°	677.9	673.2	633.8	551.4	469.5	507.8	598.0	601.6	589.8	580.6	565.2
37.5°	715.7	715.7	708.0	654.2	614.3	643.0	727.4	728.0	716.2	695.3	687.5
40°	735.2	740.8	768.5	778.7	776.7	813.5	897.5	888.3	878.5	867.7	842.1
42.5°	775.1	780.2	839.1	909.8	955.8	1004.5	1062.3	1059.3	1047.4	1028.0	1004.5
45°	842.7	849.3	919.4	1031.6	1126.3	1195.4	1232.3	1218.0	1206.1	1187.7	1175.4
47.5°	928.7	941.5	1020.8	1159.5	1273.8	1387.9	1426.3	1388.4	1378.1	1363.8	1343.9
50°	1020.3	1032.7	1117.1	1275.8	1404.8	1541.0	1604.9	1541.0	1526.1	1521.5	1499.0
52.5°	1099.7	1110.0	1191.4	1365.4	1505.1	1664.8	1758.1	1673.6	1662.8	1647.5	1631.1
55°	1146.8	1155.0	1231.3	1408.4	1573.2	1776.5	1906.1	1831.8	1815.9	1809.8	1786.2
57.5°	1162.6	1170.9	1239.4	1414.1	1610.1	1878.3	2085.7	2088.3	2069.3	2047.3	2040.1
60°	1162.6	1171.9	1229.7	1400.2	1646.0	1986.9	2325.3	2538.8	2497.9	2493.8	2467.6
62.5°	1114.5	1123.3	1181.6	1357.7	1694.1	2133.3	2659.1	3035.9	3024.1	2997.5	2954.5
65°	1010.1	1015.2	1072.6	1249.2	1675.6	2268.0	2948.4	3366.6	3347.6	3295.5	3240.2
66°	963.0	967.1	1020.8	1187.3	1615.3	2286.4	2999.6	3408.1	3376.9	3332.9	3270.3
67.5°	894.9	902.1	939.9	1072.0	1470.3	2222.4	2967.3	3378.9	3351.7	3298.5	3236.1
70°	597.5	592.4	726.0	822.7	1120.2	1810.8	2662.2	3033.9	3034.3	3009.3	2984.2
72.5°	283.6	286.7	325.6	506.3	733.1	1209.8	2119.0	2421.6	2456.4	2411.3	2380.1
75°	203.7	208.4	231.9	309.8	437.2	726.0	1373.6	1693.6	1694.6	1614.7	1543.5
77.5°	59.3	62.0	87.1	191.0	327.6	490.0	788.9	941.5	919.4	862.1	808.4
80°	24.6	24.6	25.6	60.9	131.5	332.7	551.9	724.9	722.3	700.4	668.7
82.5°	9.2	9.8	12.3	25.1	31.3	82.0	368.1	629.2	627.6	596.5	573.9
85°	1.0	1.0	3.1	10.8	11.8	15.3	73.8	277.5	275.9	277.5	243.2
87.5°	0.0	0.0	0.6	1.0	1.6	2.0	3.1	10.8	11.8	11.3	10.2
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°	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
2.5°	87.5	86.5	86.5	86.0	86.0	86.0	85.5	85.0	85.0	84.5	84.0
5°	95.7	94.7	94.2	93.2	92.7	92.2	91.2	90.6	89.6	89.1	88.6
7.5°	105.5	103.4	102.9	101.4	99.8	98.8	97.8	96.3	95.3	93.2	92.7
10°	117.8	115.2	113.1	111.1	109.6	107.0	105.5	103.4	101.4	99.8	98.3
12.5°	133.6	130.0	127.0	124.9	121.3	118.2	115.2	113.7	109.6	107.5	104.9
15°	151.1	147.0	143.3	139.3	136.7	131.5	127.4	122.9	120.8	117.2	113.1
17.5°	173.6	166.9	161.3	157.2	152.1	147.0	142.3	137.7	131.5	127.4	122.3
20°	197.6	192.0	184.3	177.1	171.0	164.8	158.2	152.1	146.4	139.7	133.6
22.5°	228.4	220.2	210.9	203.7	195.5	188.9	179.7	171.5	162.3	153.6	146.4
25°	267.3	256.5	247.8	237.6	227.8	217.6	206.3	196.1	184.3	176.1	163.8
27.5°	315.4	305.1	293.4	280.0	270.3	255.0	240.1	227.4	213.5	200.7	186.9
30°	376.8	362.0	349.7	336.8	317.4	302.6	285.1	267.7	248.8	236.0	215.0
32.5°	450.5	434.6	416.2	397.8	379.9	358.9	337.4	315.9	294.9	271.4	249.9
35°	540.7	521.7	500.7	480.7	453.1	430.5	403.4	373.8	350.1	323.1	295.9
37.5°	659.9	628.7	610.2	589.3	551.9	521.2	491.0	461.3	419.8	391.2	352.7
40°	809.4	791.0	760.7	727.0	693.2	652.7	611.8	572.4	524.3	484.3	439.8
42.5°	985.0	957.9	927.2	878.5	844.2	796.6	750.1	697.8	638.9	587.7	535.5
45°	1149.9	1117.6	1094.1	1045.4	1009.6	953.3	896.9	841.7	773.6	707.5	647.1
47.5°	1328.0	1301.4	1262.5	1223.1	1186.7	1123.3	1062.3	995.3	923.5	845.2	766.9
50°	1484.7	1463.7	1437.0	1389.4	1349.0	1295.7	1224.1	1150.9	1060.3	982.4	893.4
52.5°	1617.8	1601.4	1564.0	1530.2	1493.9	1443.7	1379.7	1309.6	1211.8	1126.3	1024.9
55°	1775.0	1763.2	1730.4	1709.4	1677.1	1629.0	1569.1	1504.1	1400.8	1307.5	1192.8
57.5°	2032.5	2023.3	1994.6	1985.9	1954.2	1912.2	1838.4	1768.8	1648.0	1532.3	1401.2
60°	2458.9	2440.5	2398.5	2377.0	2310.0	2253.6	2157.9	2062.2	1916.3	1768.8	1611.2
62.5°	2915.6	2863.9	2784.0	2715.5	2620.2	2522.4	2394.4	2248.0	2077.0	1902.0	1720.7
65°	3161.9	3073.8	2972.9	2863.9	2740.5	2596.7	2435.4	2259.7	2076.0	1891.2	1699.7
66°	3190.0	3090.7	2983.6	2862.3	2725.1	2572.1	2408.2	2223.9	2032.9	1852.8	1661.3
67.5°	3154.7	3050.7	2937.6	2803.0	2654.5	2495.8	2323.7	2132.3	1948.5	1765.8	1579.4
70°	2907.4	2804.0	2703.1	2561.3	2403.1	2243.4	2080.6	1866.6	1692.6	1524.6	1358.7
72.5°	2321.7	2251.5	2151.7	2030.4	1876.3	1688.9	1553.3	1361.8	1210.8	1048.0	919.4
75°	1450.9	1352.1	1228.7	1074.1	956.4	804.3	724.9	579.5	493.5	418.2	345.6
77.5°	741.9	667.6	581.0	494.0	410.6	327.6	253.4	179.2	120.8	84.0	62.4
80°	612.8	547.3	475.6	396.3	322.5	250.3	180.2	122.9	78.3	51.2	39.9
82.5°	506.3	451.1	387.1	313.3	249.3	196.6	136.7	89.1	55.3	35.8	28.2
85°	215.5	195.5	151.1	119.8	90.1	66.5	46.6	31.3	22.0	18.0	16.4
87.5°	9.2	10.2	9.8	7.7	5.7	5.7	5.1	4.1	4.1	4.1	4.1
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
2.5°	84.0	83.4	83.0	83.0	82.4	82.0	78.9	76.3	73.2	71.2	69.1
5°	87.5	87.1	86.0	85.5	84.5	84.0	77.3	71.6	67.1	63.4	60.9
7.5°	91.2	90.6	89.1	87.5	87.1	86.0	75.3	68.1	62.0	57.9	55.3
10°	95.7	94.2	92.7	90.6	89.1	87.5	73.2	64.0	57.3	53.8	51.2
12.5°	102.4	99.8	97.3	94.7	92.7	90.1	72.2	60.4	53.8	49.7	47.1
15°	110.0	106.5	103.4	100.4	96.7	94.2	70.1	57.3	50.7	46.6	43.5
17.5°	117.2	113.1	108.6	103.9	100.4	96.7	68.1	54.2	47.6	43.5	40.5
20°	127.4	121.3	115.7	110.0	104.9	100.4	65.0	51.2	45.0	40.5	37.4
22.5°	138.7	131.5	124.4	116.7	110.0	103.9	62.4	48.7	42.5	37.9	34.3
25°	153.1	144.4	134.6	124.9	117.2	109.0	59.9	46.0	39.9	35.3	31.7
27.5°	173.0	160.7	150.0	137.7	126.0	116.7	57.9	44.0	37.4	32.7	29.2
30°	200.2	182.2	165.4	152.1	138.2	124.9	55.8	41.5	35.3	30.2	26.1
32.5°	230.4	209.4	190.0	170.0	152.6	137.2	53.8	39.4	32.7	27.6	24.1
35°	267.7	241.1	215.0	192.0	171.0	150.5	51.7	37.4	30.7	25.1	21.5
37.5°	321.5	288.2	254.0	224.3	197.1	170.0	50.1	35.3	28.2	22.5	19.0
40°	395.3	352.2	310.2	269.8	234.5	200.7	48.1	33.3	26.1	20.5	16.9
42.5°	475.1	422.9	367.6	322.0	273.4	230.9	46.0	31.3	24.1	18.4	14.9
45°	574.4	509.4	442.3	380.4	321.0	266.2	44.0	29.2	21.5	16.4	12.8
47.5°	683.0	600.0	524.3	446.4	375.8	310.2	41.5	27.6	19.4	14.3	11.3
50°	794.5	707.0	611.3	522.7	438.7	354.2	38.9	25.1	17.4	12.8	9.2
52.5°	914.9	811.4	713.7	603.6	505.8	412.1	36.4	23.1	15.9	11.3	7.7
55°	1067.9	952.3	837.6	714.1	596.5	479.2	33.8	20.5	13.9	9.8	6.1
57.5°	1260.5	1123.3	982.4	843.2	700.4	567.3	31.7	18.0	11.8	8.2	5.1
60°	1442.1	1282.0	1111.4	951.3	790.0	634.8	28.7	15.9	10.2	6.7	5.1
62.5°	1536.4	1353.6	1169.8	993.2	821.2	658.9	25.6	13.3	8.7	5.7	4.7
65°	1513.3	1327.0	1148.8	970.7	802.2	643.5	22.5	11.8	7.7	5.1	4.7
66°	1480.1	1295.7	1116.6	947.1	786.3	627.2	21.0	11.3	7.2	5.1	4.1
67.5°	1407.4	1229.2	1058.2	900.6	742.9	595.9	19.0	10.2	6.7	4.7	4.1
70°	1202.1	1040.3	903.6	763.4	634.8	502.2	15.3	8.7	5.7	4.1	4.1
72.5°	795.5	685.5	594.4	511.4	427.4	331.7	12.8	7.2	4.7	4.1	3.6
75°	300.0	271.4	232.9	209.4	182.8	160.3	10.2	4.7	3.6	3.6	3.6
77.5°	53.2	49.1	43.5	39.9	36.8	33.8	8.2	3.1	3.1	3.6	3.6
80°	35.8	33.3	30.2	27.6	25.6	23.1	5.7	2.6	3.1	3.1	3.6
82.5°	25.6	24.1	22.5	20.5	19.0	16.9	3.6	2.6	3.1	3.1	3.1
85°	15.3	14.3	13.3	12.3	10.8	10.2	2.6	2.6	2.6	3.1	3.1
87.5°	4.1	3.6	4.1	4.1	3.1	3.6	2.0	2.0	2.0	2.6	2.6
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°	80.4	80.4	80.4	80.4	80.4
2.5°	68.1	68.1	67.1	68.6	68.6
5°	58.9	58.9	58.3	58.9	58.9
7.5°	53.8	53.2	53.2	53.2	53.8
10°	49.1	48.7	48.7	48.7	48.7
12.5°	45.0	44.6	44.0	44.6	44.6
15°	41.5	40.5	40.5	40.5	40.5
17.5°	38.4	37.4	36.8	36.8	36.8
20°	35.3	33.8	33.8	33.8	33.8
22.5°	32.3	30.7	30.7	30.7	30.7
25°	29.2	27.6	27.6	27.6	27.6
27.5°	26.6	25.1	25.1	25.1	25.1
30°	23.5	22.5	22.5	23.1	22.5
32.5°	21.5	20.0	20.0	20.5	20.5
35°	19.0	18.0	18.0	18.0	18.0
37.5°	16.4	15.3	15.3	15.3	15.3
40°	14.3	13.3	12.8	13.3	13.3
42.5°	12.3	11.3	10.8	10.8	10.8
45°	10.8	9.2	8.7	9.2	9.2
47.5°	8.7	7.7	7.7	8.2	8.2
50°	6.7	6.7	7.2	8.2	8.2
52.5°	6.1	6.1	7.2	8.2	8.2
55°	5.7	6.1	7.2	7.7	8.2
57.5°	5.1	6.1	7.2	7.7	7.7
60°	5.1	5.7	6.7	7.7	7.7
62.5°	4.7	5.1	6.1	7.2	7.2
65°	4.7	5.1	6.1	7.2	7.2
66°	4.7	5.1	6.1	7.2	7.2
67.5°	4.7	5.1	6.1	7.2	7.2
70°	4.7	5.1	6.1	6.7	6.7
72.5°	4.1	4.7	5.7	6.7	6.7
75°	4.1	4.7	5.7	6.7	6.7
77.5°	4.1	4.7	5.7	6.7	6.7
80°	4.1	4.7	5.7	6.1	6.7
82.5°	3.6	4.7	5.1	6.1	6.1
85°	3.6	4.1	5.1	5.7	6.1
87.5°	3.1	3.6	4.1	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)