

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: P180583

Luminaire Tested: **ICM-F03-LED-E1-SL3-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180583
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-F03-LED-E1-SL3-HSS
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3994.4 lumens
Efficiency: N/A
Efficacy: 51.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 78.3
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

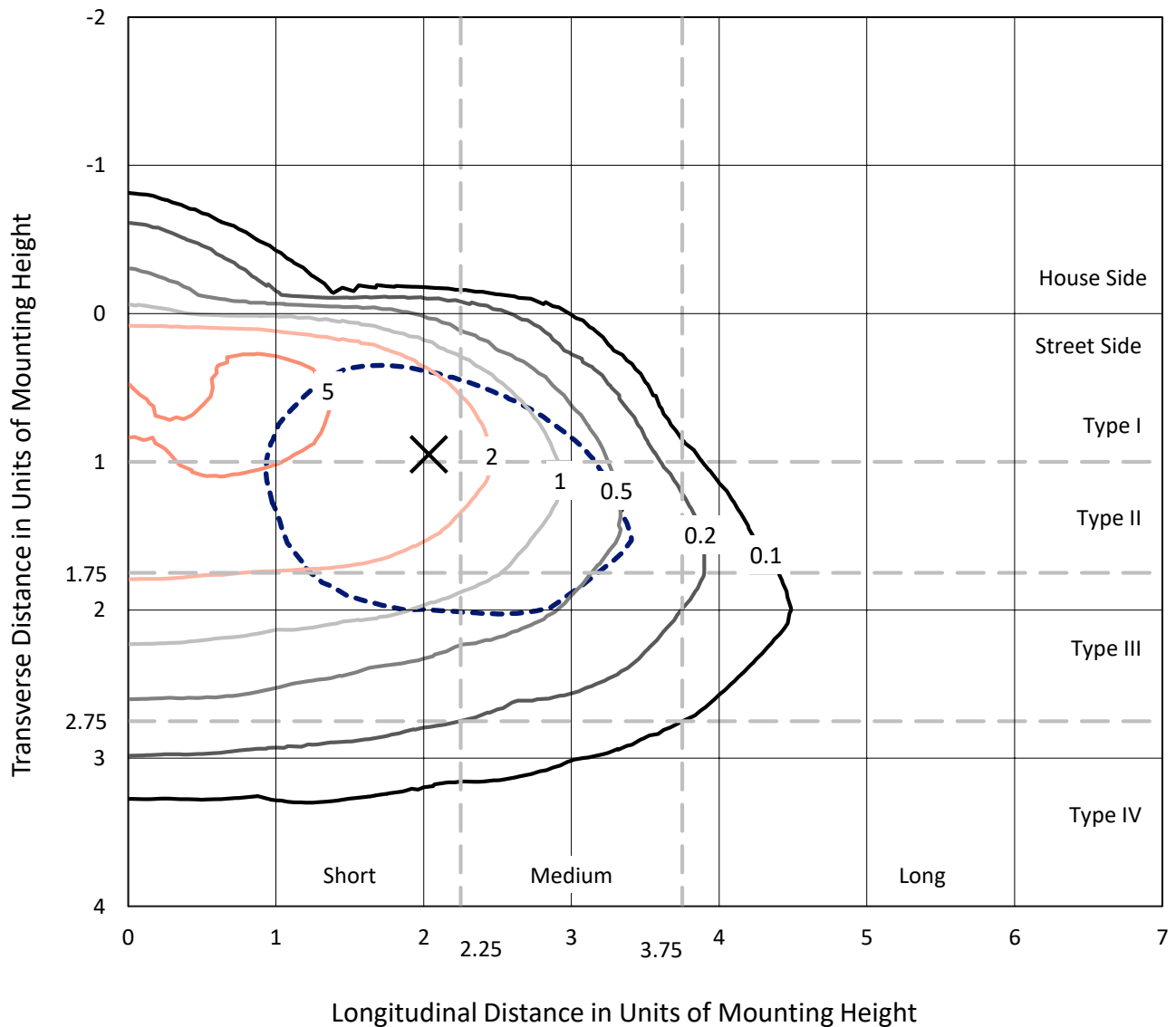


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

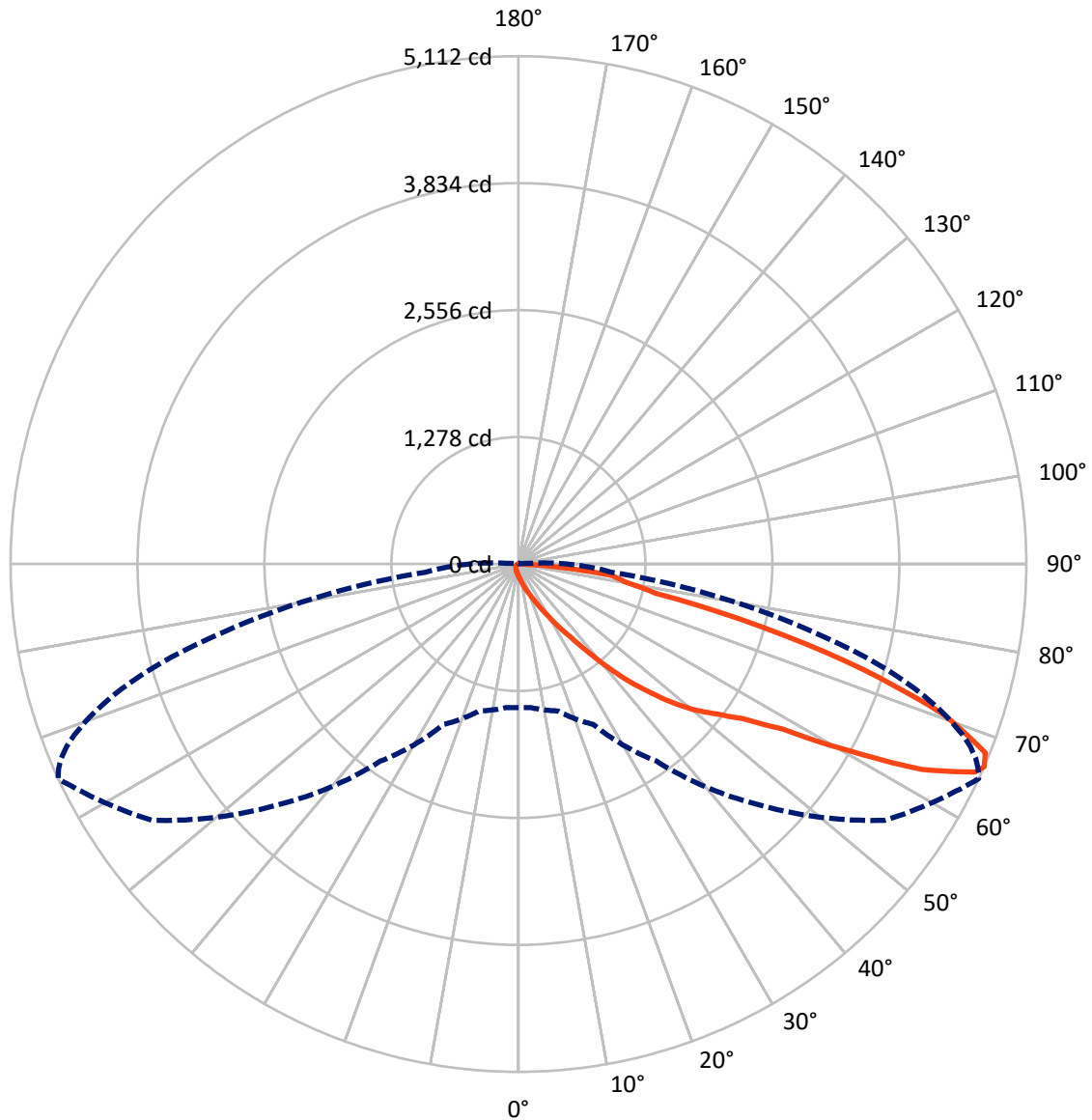


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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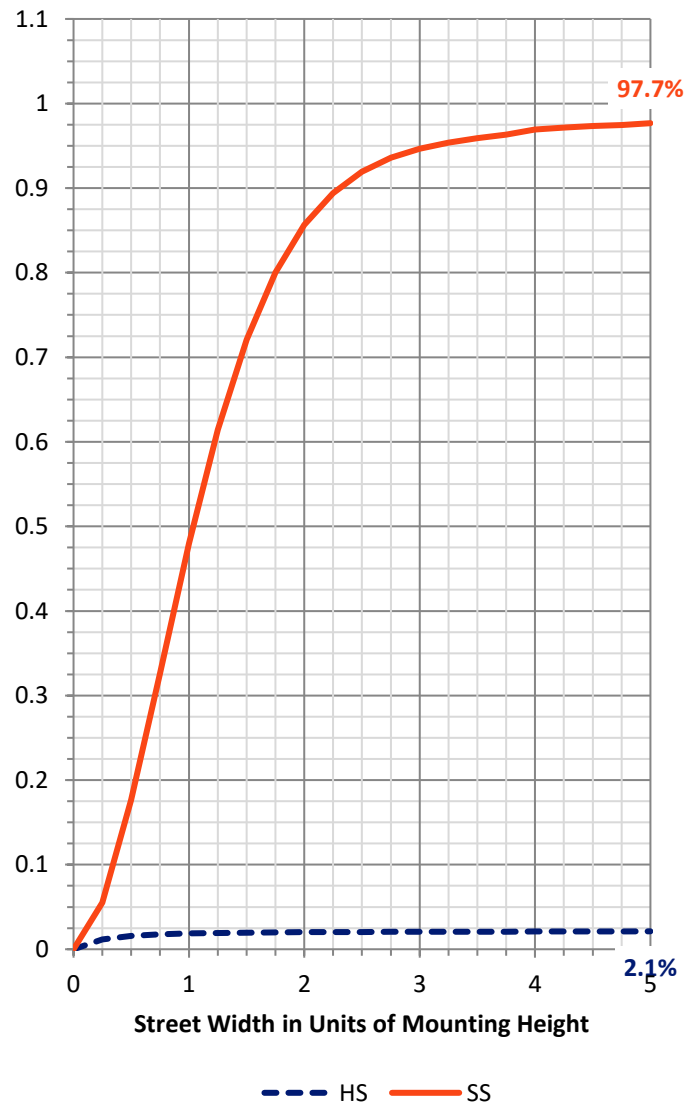
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	86.6	0.0	86.6
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	3907.8	0.0	3907.8
	% Fixture	97.8	0.0	97.8
Total	Lumens	3994.4	0.0	3994.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.5	0.3
10°-20°	57.2	1.4
20°-30°	123.4	3.1
30°-40°	263.6	6.6
40°-50°	582.9	14.6
50°-60°	987.9	24.7
60°-70°	1318.3	33.0
70°-80°	580.7	14.5
80°-90°	66.9	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°	3994.4	100.0
0°-180°	3994.4	100.0



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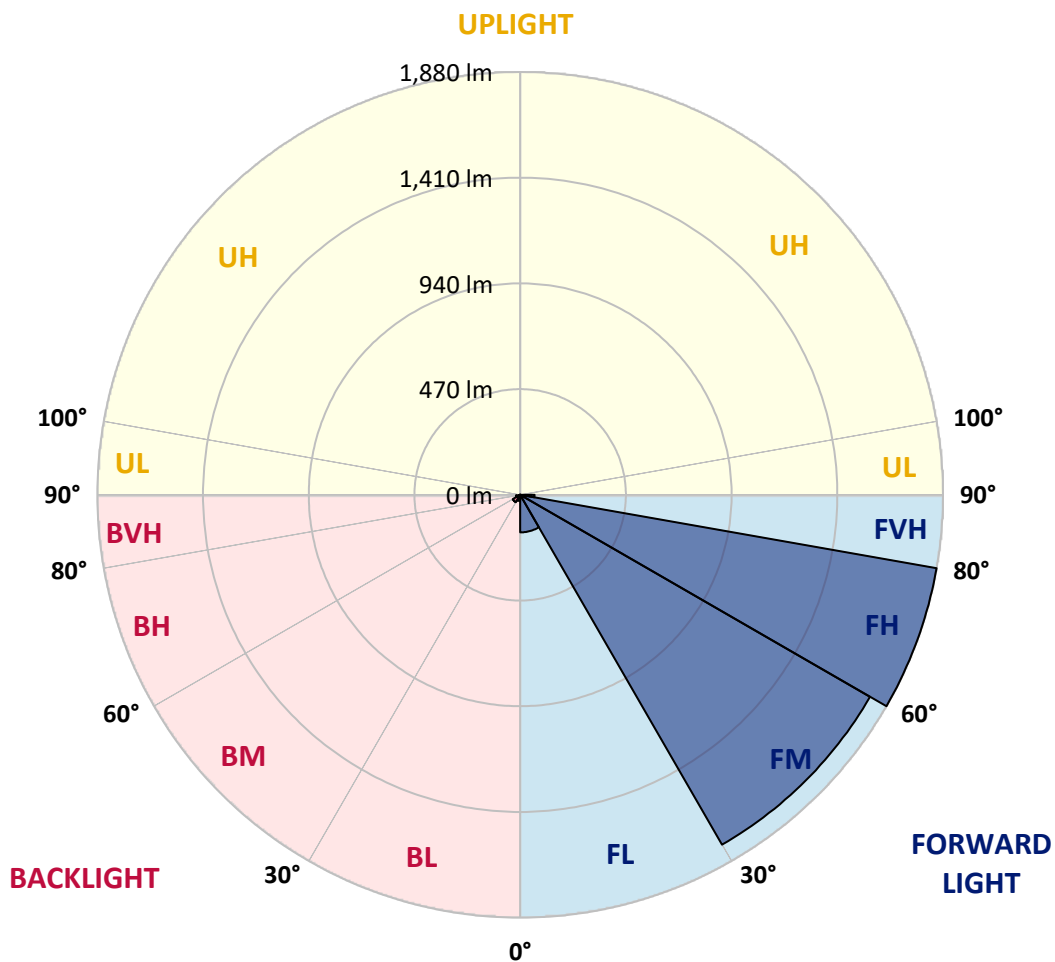
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	166.8	4.2			
FM (30°-60°)	1796.4	45.0			
FH (60°-80°)	1880.4	47.1			G2/5000
FVH (80°-90°)	64.2	1.6			G1/100
BL (0°-30°)	27.3	0.7	B0/110		
BM (30°-60°)	38.0	1.0	B0/220		
BH (60°-80°)	18.6	0.5	B0/110		G0/110
BVH (80°-90°)	2.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6
2.5°	152.1	151.3	148.2	148.2	143.6	140.6	136.7	132.8	132.8	132.1	131.3
5°	201.2	196.6	195.8	187.3	180.5	170.5	161.3	149.0	147.4	145.9	145.1
7.5°	255.7	255.0	248.0	238.0	224.3	205.8	187.3	167.4	164.4	162.8	159.7
10°	326.3	322.5	313.3	296.5	275.7	251.1	221.2	189.7	185.9	182.8	181.2
12.5°	394.0	387.1	381.7	360.2	334.0	298.0	261.9	216.6	213.5	209.7	203.5
15°	456.9	450.8	441.6	423.2	394.0	348.7	306.4	251.1	243.4	238.0	233.5
17.5°	506.0	502.2	491.4	470.7	439.3	399.4	348.7	286.4	280.3	273.4	264.9
20°	552.9	547.5	530.6	502.2	468.5	437.7	398.5	332.6	324.1	315.6	306.4
22.5°	597.5	592.1	564.5	517.6	481.5	468.5	454.6	384.7	371.7	364.7	355.5
25°	659.6	648.1	605.1	530.6	482.2	492.3	516.1	452.3	440.0	430.0	415.4
27.5°	743.4	728.0	660.5	549.9	485.3	518.3	586.7	534.5	521.4	509.9	493.8
30°	837.8	827.8	747.2	595.9	507.6	556.7	665.8	638.9	623.5	609.8	590.5
32.5°	933.0	919.3	839.4	683.4	567.5	631.3	764.8	760.3	740.3	727.3	706.5
35°	1016.8	1009.9	950.7	827.1	704.2	761.8	896.9	902.3	884.7	870.8	847.8
37.5°	1073.6	1073.6	1062.1	981.4	921.5	964.6	1091.3	1092.0	1074.3	1042.9	1031.4
40°	1102.8	1111.2	1152.7	1168.0	1164.9	1220.3	1346.1	1332.4	1317.8	1301.7	1263.3
42.5°	1162.6	1170.3	1258.6	1364.7	1433.8	1506.7	1593.5	1588.8	1571.2	1542.1	1506.7
45°	1264.0	1274.0	1379.2	1547.4	1689.5	1793.1	1848.4	1826.9	1809.2	1781.6	1763.2
47.5°	1393.0	1412.2	1531.3	1739.4	1910.6	2081.9	2139.5	2082.6	2067.3	2045.8	2015.8
50°	1530.5	1548.9	1675.6	1913.7	2107.2	2311.5	2407.5	2311.5	2289.2	2282.3	2248.5
52.5°	1649.5	1664.8	1787.0	2048.1	2257.7	2497.3	2637.1	2510.3	2494.2	2471.2	2446.6
55°	1720.2	1732.5	1846.9	2112.6	2359.8	2664.8	2859.0	2747.6	2723.8	2714.6	2679.4
57.5°	1744.0	1756.3	1859.2	2121.0	2415.2	2817.6	3128.6	3132.4	3104.0	3071.0	3060.2
60°	1744.0	1757.8	1844.6	2100.3	2468.9	2980.4	3487.9	3808.2	3746.7	3740.6	3701.4
62.5°	1671.8	1684.8	1772.4	2036.6	2541.1	3200.0	3988.7	4553.9	4536.2	4496.2	4431.7
65°	1515.2	1522.8	1608.8	1873.8	2513.4	3402.0	4422.5	5050.0	5021.5	4943.2	4860.2
66°	1444.5	1450.6	1531.3	1780.8	2422.8	3429.6	4499.4	5112.1	5065.3	4999.3	4905.6
67.5°	1342.3	1353.1	1410.0	1608.0	2205.5	3333.6	4450.9	5068.4	5027.7	4947.8	4854.1
70°	896.2	888.5	1088.9	1234.1	1680.2	2716.2	3993.2	4550.8	4551.6	4513.9	4476.3
72.5°	425.4	430.0	488.4	759.4	1099.7	1814.6	3178.4	3632.3	3684.6	3617.0	3570.2
75°	305.7	312.6	347.9	464.6	655.8	1088.9	2060.4	2540.3	2541.9	2422.1	2315.4
77.5°	89.1	92.9	130.5	286.4	491.4	734.9	1183.4	1412.2	1379.2	1293.2	1212.6
80°	36.8	36.8	38.4	91.3	197.4	499.2	827.8	1087.4	1083.5	1050.5	1002.9
82.5°	13.9	14.6	18.4	37.7	46.9	122.9	552.2	943.8	941.5	894.6	860.8
85°	1.6	1.6	4.7	16.1	17.7	23.1	110.6	416.2	414.0	416.2	364.7
87.5°	0.0	0.0	0.7	1.6	2.3	3.1	4.7	16.1	17.7	16.9	15.3
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°	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6
2.5°	131.3	129.8	129.8	129.0	129.0	129.0	128.3	127.4	127.4	126.7	126.0
5°	143.6	142.0	141.3	139.7	139.0	138.2	136.7	135.9	134.4	133.6	132.8
7.5°	158.2	155.2	154.3	152.1	149.8	148.2	146.7	144.4	142.8	139.7	139.0
10°	176.7	172.7	169.7	166.6	164.4	160.5	158.2	155.2	152.1	149.8	147.4
12.5°	200.5	195.1	190.4	187.3	182.0	177.4	172.7	170.5	164.4	161.3	157.4
15°	226.5	220.4	215.0	208.8	205.0	197.4	191.3	184.3	181.2	175.8	169.7
17.5°	260.4	250.3	241.9	235.7	228.1	220.4	213.5	206.6	197.4	191.3	183.5
20°	296.5	288.0	276.5	265.7	256.5	247.3	237.3	228.1	219.6	209.7	200.5
22.5°	342.5	330.2	316.4	305.7	293.4	283.4	269.6	257.3	243.4	230.4	219.6
25°	400.8	384.7	371.7	356.3	341.8	326.3	309.5	294.1	276.5	264.2	245.8
27.5°	473.0	457.7	440.0	420.1	405.5	382.4	360.2	340.9	320.2	301.0	280.3
30°	565.2	542.9	524.5	505.3	476.1	453.9	427.7	401.6	373.2	354.0	322.5
32.5°	675.8	652.0	624.4	596.7	569.8	538.3	506.0	473.8	442.3	407.0	374.8
35°	811.0	782.5	751.1	721.1	679.6	645.9	605.1	560.6	525.3	484.6	443.9
37.5°	989.9	943.0	915.4	883.9	827.8	781.8	736.5	691.9	629.7	586.7	529.1
40°	1214.1	1186.4	1141.1	1090.4	1039.8	979.1	917.7	858.5	786.3	726.4	659.6
42.5°	1477.5	1436.8	1390.7	1317.8	1266.3	1194.9	1125.0	1046.7	958.4	881.6	803.3
45°	1724.8	1676.4	1641.0	1568.1	1514.3	1429.9	1345.4	1262.5	1160.4	1061.3	970.7
47.5°	1992.0	1952.1	1893.7	1834.6	1780.1	1684.8	1593.5	1492.8	1385.3	1267.8	1150.3
50°	2227.0	2195.5	2155.5	2084.2	2023.5	1943.6	1836.1	1726.3	1590.4	1473.7	1340.0
52.5°	2426.7	2402.1	2346.1	2295.4	2240.9	2165.6	2069.6	1964.4	1817.7	1689.5	1537.4
55°	2662.4	2644.8	2595.6	2564.1	2515.7	2443.5	2353.7	2256.2	2101.0	1961.3	1789.3
57.5°	3048.7	3034.9	2991.8	2978.8	2931.2	2868.2	2757.7	2653.2	2472.0	2298.4	2101.9
60°	3688.4	3660.8	3597.8	3565.5	3465.0	3380.5	3236.9	3093.2	2874.3	2653.2	2416.7
62.5°	4373.4	4295.8	4176.0	4073.1	3930.3	3783.7	3591.6	3372.0	3115.6	2852.9	2581.0
65°	4742.7	4610.7	4459.4	4295.8	4110.7	3895.0	3653.0	3389.7	3114.0	2836.8	2549.5
66°	4785.0	4636.0	4475.6	4293.5	4087.7	3858.1	3612.4	3335.9	3049.5	2779.2	2491.9
67.5°	4732.0	4576.1	4406.4	4204.4	3981.7	3743.7	3485.7	3198.4	2922.7	2648.6	2369.0
70°	4361.1	4206.0	4054.7	3842.0	3604.7	3365.1	3120.9	2799.9	2538.8	2286.9	2038.1
72.5°	3482.6	3377.4	3227.6	3045.6	2814.4	2533.4	2329.9	2042.7	1816.2	1571.9	1379.2
75°	2176.3	2028.1	1843.1	1611.2	1434.5	1206.4	1087.4	869.3	740.3	627.4	518.3
77.5°	1112.8	1001.4	871.6	741.0	615.9	491.4	380.1	268.7	181.2	126.0	93.7
80°	919.3	820.9	713.4	594.4	483.8	375.5	270.3	184.3	117.5	76.8	59.9
82.5°	759.4	676.6	580.6	470.0	374.0	294.9	205.0	133.6	83.0	53.8	42.2
85°	323.3	293.4	226.5	179.7	135.2	99.8	69.9	46.9	33.0	26.9	24.6
87.5°	13.9	15.3	14.6	11.5	8.5	8.5	7.7	6.1	6.1	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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6
2.5°	126.0	125.2	124.4	124.4	123.6	122.9	118.2	114.4	109.9	106.7	103.6
5°	131.3	130.5	129.0	128.3	126.7	126.0	116.0	107.5	100.6	95.3	91.3
7.5°	136.7	135.9	133.6	131.3	130.5	129.0	112.9	102.1	92.9	86.8	83.0
10°	143.6	141.3	139.0	135.9	133.6	131.3	109.9	96.0	86.0	80.7	76.8
12.5°	153.6	149.8	145.9	142.0	139.0	135.2	108.3	90.6	80.7	74.5	70.6
15°	165.1	159.7	155.2	150.5	145.1	141.3	105.2	86.0	76.0	69.9	65.3
17.5°	175.8	169.7	162.8	155.9	150.5	145.1	102.1	81.4	71.4	65.3	60.7
20°	191.3	182.0	173.6	165.1	157.4	150.5	97.5	76.8	67.5	60.7	56.1
22.5°	208.1	197.4	186.6	175.1	165.1	155.9	93.7	72.9	63.7	56.8	51.4
25°	229.6	216.6	202.0	187.3	175.8	163.5	89.9	69.1	59.9	53.0	47.6
27.5°	259.5	241.1	225.0	206.6	188.9	175.1	86.8	66.0	56.1	49.1	43.8
30°	300.3	273.4	248.0	228.1	207.4	187.3	83.7	62.2	53.0	45.3	39.2
32.5°	345.6	314.0	284.9	255.0	228.8	205.8	80.7	59.2	49.1	41.5	36.1
35°	401.6	361.7	322.5	288.0	256.5	225.8	77.6	56.1	46.0	37.7	32.3
37.5°	482.2	432.4	380.9	336.4	295.6	255.0	75.3	53.0	42.2	33.8	28.4
40°	592.8	528.4	465.4	404.7	351.7	301.0	72.2	50.0	39.2	30.7	25.3
42.5°	712.7	634.3	551.4	483.1	410.0	346.3	69.1	46.9	36.1	27.6	22.2
45°	861.6	764.1	663.5	570.6	481.5	399.4	66.0	43.8	32.3	24.6	19.2
47.5°	1024.5	900.0	786.3	669.7	563.6	465.4	62.2	41.5	29.2	21.5	16.9
50°	1191.8	1060.5	916.9	784.1	658.1	531.4	58.3	37.7	26.1	19.2	13.9
52.5°	1372.3	1217.2	1070.5	905.4	758.7	618.1	54.5	34.5	23.8	16.9	11.5
55°	1601.9	1428.4	1256.4	1071.3	894.6	718.8	50.7	30.7	20.7	14.6	9.2
57.5°	1890.6	1684.8	1473.7	1264.8	1050.5	850.9	47.6	26.9	17.7	12.3	7.7
60°	2163.3	1922.9	1667.2	1426.8	1184.9	952.3	43.0	23.8	15.3	10.0	7.7
62.5°	2304.6	2030.4	1754.7	1489.8	1231.7	988.4	38.4	20.0	13.0	8.5	6.9
65°	2270.1	1990.5	1723.3	1456.0	1203.4	965.3	33.8	17.7	11.5	7.7	6.9
66°	2220.1	1943.6	1674.9	1420.7	1179.5	940.7	31.4	16.9	10.8	7.7	6.1
67.5°	2111.1	1843.8	1587.4	1350.8	1114.2	893.9	28.4	15.3	10.0	6.9	6.1
70°	1803.1	1560.5	1355.5	1145.0	952.3	753.3	23.1	13.0	8.5	6.1	6.1
72.5°	1193.4	1028.3	891.5	767.2	641.2	497.6	19.2	10.8	6.9	6.1	5.4
75°	450.0	407.0	349.4	314.0	274.1	240.4	15.3	6.9	5.4	5.4	5.4
77.5°	79.9	73.8	65.3	59.9	55.3	50.7	12.3	4.7	4.7	5.4	5.4
80°	53.8	50.0	45.3	41.5	38.4	34.5	8.5	3.8	4.7	4.7	5.4
82.5°	38.4	36.1	33.8	30.7	28.4	25.3	5.4	3.8	4.7	4.7	4.7
85°	23.1	21.5	20.0	18.4	16.1	15.3	3.8	3.8	3.8	4.7	4.7
87.5°	6.1	5.4	6.1	6.1	4.7	5.4	3.1	3.1	3.1	3.8	3.8
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°	120.6	120.6	120.6	120.6	120.6
2.5°	102.1	102.1	100.6	102.9	102.9
5°	88.3	88.3	87.5	88.3	88.3
7.5°	80.7	79.9	79.9	79.9	80.7
10°	73.8	72.9	72.9	72.9	72.9
12.5°	67.5	66.8	66.0	66.8	66.8
15°	62.2	60.7	60.7	60.7	60.7
17.5°	57.6	56.1	55.3	55.3	55.3
20°	53.0	50.7	50.7	50.7	50.7
22.5°	48.4	46.0	46.0	46.0	46.0
25°	43.8	41.5	41.5	41.5	41.5
27.5°	39.9	37.7	37.7	37.7	37.7
30°	35.3	33.8	33.8	34.5	33.8
32.5°	32.3	30.0	30.0	30.7	30.7
35°	28.4	26.9	26.9	26.9	26.9
37.5°	24.6	23.1	23.1	23.1	23.1
40°	21.5	20.0	19.2	20.0	20.0
42.5°	18.4	16.9	16.1	16.1	16.1
45°	16.1	13.9	13.0	13.9	13.9
47.5°	13.0	11.5	11.5	12.3	12.3
50°	10.0	10.0	10.8	12.3	12.3
52.5°	9.2	9.2	10.8	12.3	12.3
55°	8.5	9.2	10.8	11.5	12.3
57.5°	7.7	9.2	10.8	11.5	11.5
60°	7.7	8.5	10.0	11.5	11.5
62.5°	6.9	7.7	9.2	10.8	10.8
65°	6.9	7.7	9.2	10.8	10.8
66°	6.9	7.7	9.2	10.8	10.8
67.5°	6.9	7.7	9.2	10.8	10.8
70°	6.9	7.7	9.2	10.0	10.0
72.5°	6.1	6.9	8.5	10.0	10.0
75°	6.1	6.9	8.5	10.0	10.0
77.5°	6.1	6.9	8.5	10.0	10.0
80°	6.1	6.9	8.5	9.2	10.0
82.5°	5.4	6.9	7.7	9.2	9.2
85°	5.4	6.1	7.7	8.5	9.2
87.5°	4.7	5.4	6.1	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)