

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: P181230

Luminaire Tested: **ICS-F04-LED-E1-T2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181230
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33723)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F04-LED-E1-T2-HSS-7030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4346.7 lumens
Efficiency: N/A
Efficacy: 42.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 102.2
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



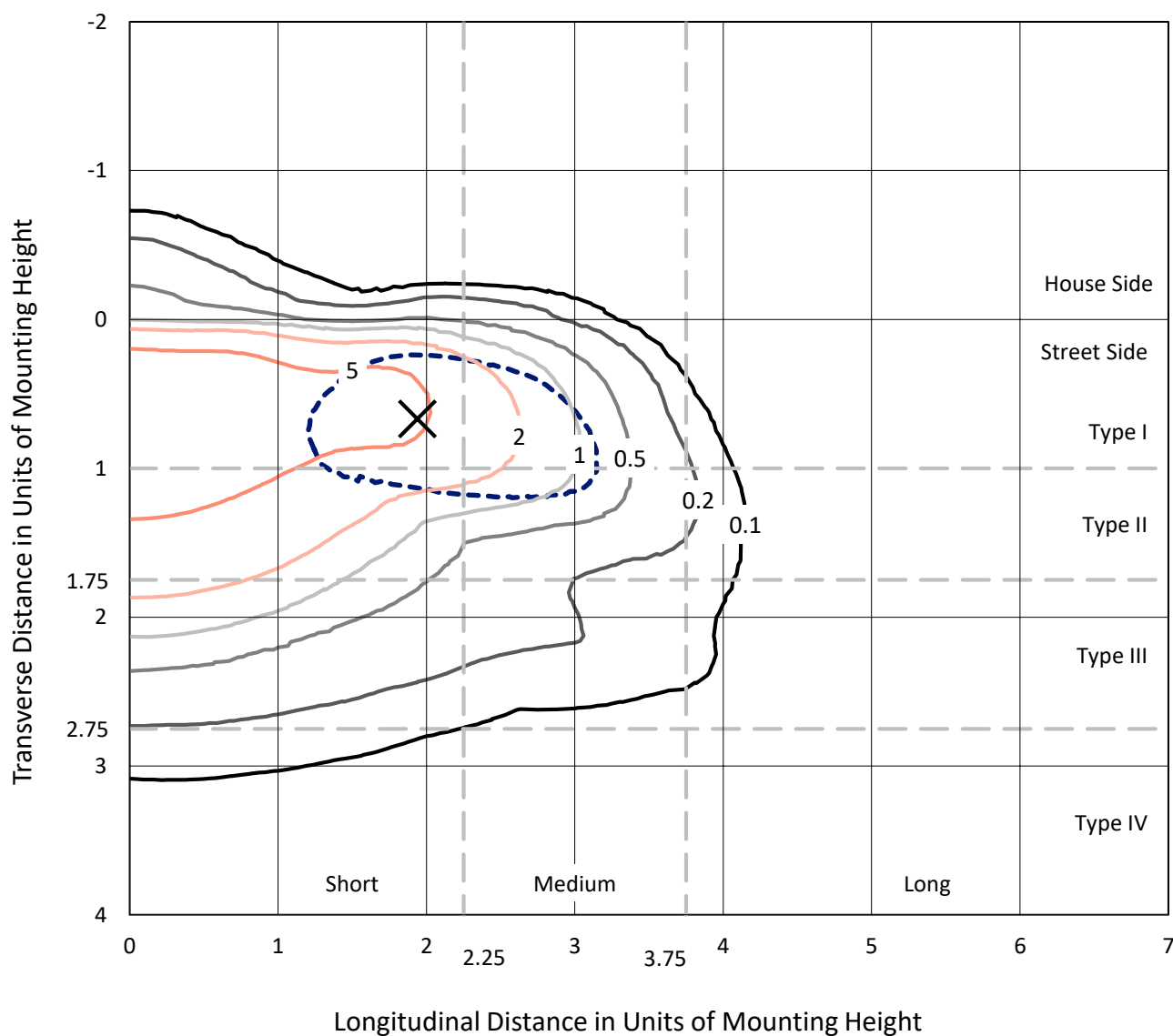
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

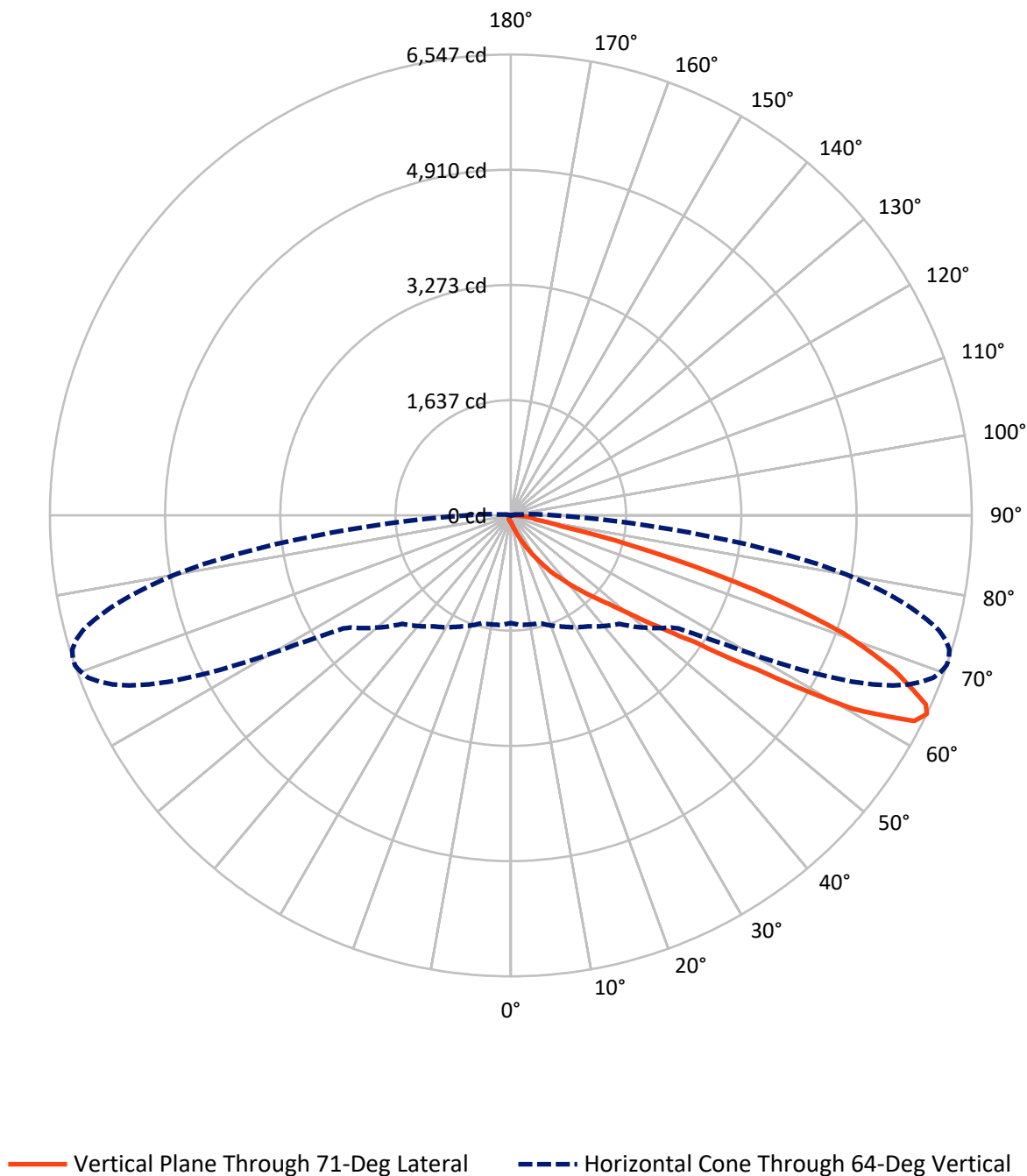


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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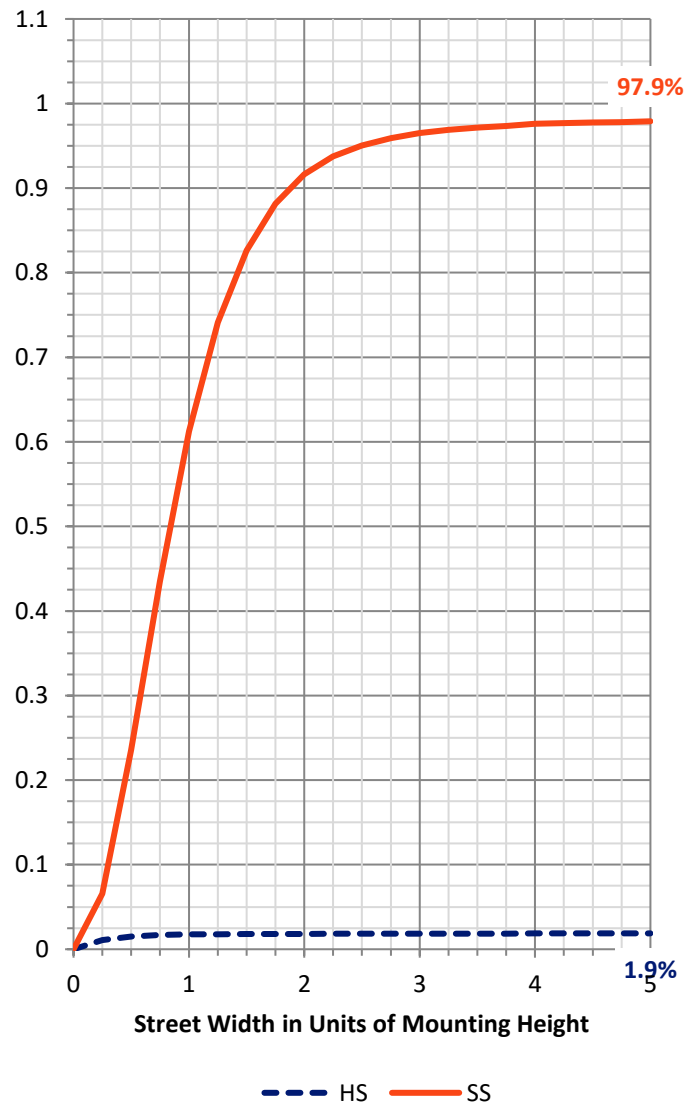
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	83.2	0.0	83.2
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	4263.5	0.0	4263.5
	% Fixture	98.1	0.0	98.1
Total	Lumens	4346.7	0.0	4346.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.3	0.3
10°-20°	78.6	1.8
20°-30°	200.7	4.6
30°-40°	406.0	9.3
40°-50°	742.2	17.1
50°-60°	1156.3	26.6
60°-70°	1285.3	29.6
70°-80°	419.2	9.6
80°-90°	45.1	1.0
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°	4346.7	100.0
0°-180°	4346.7	100.0

Coefficient of Utilization



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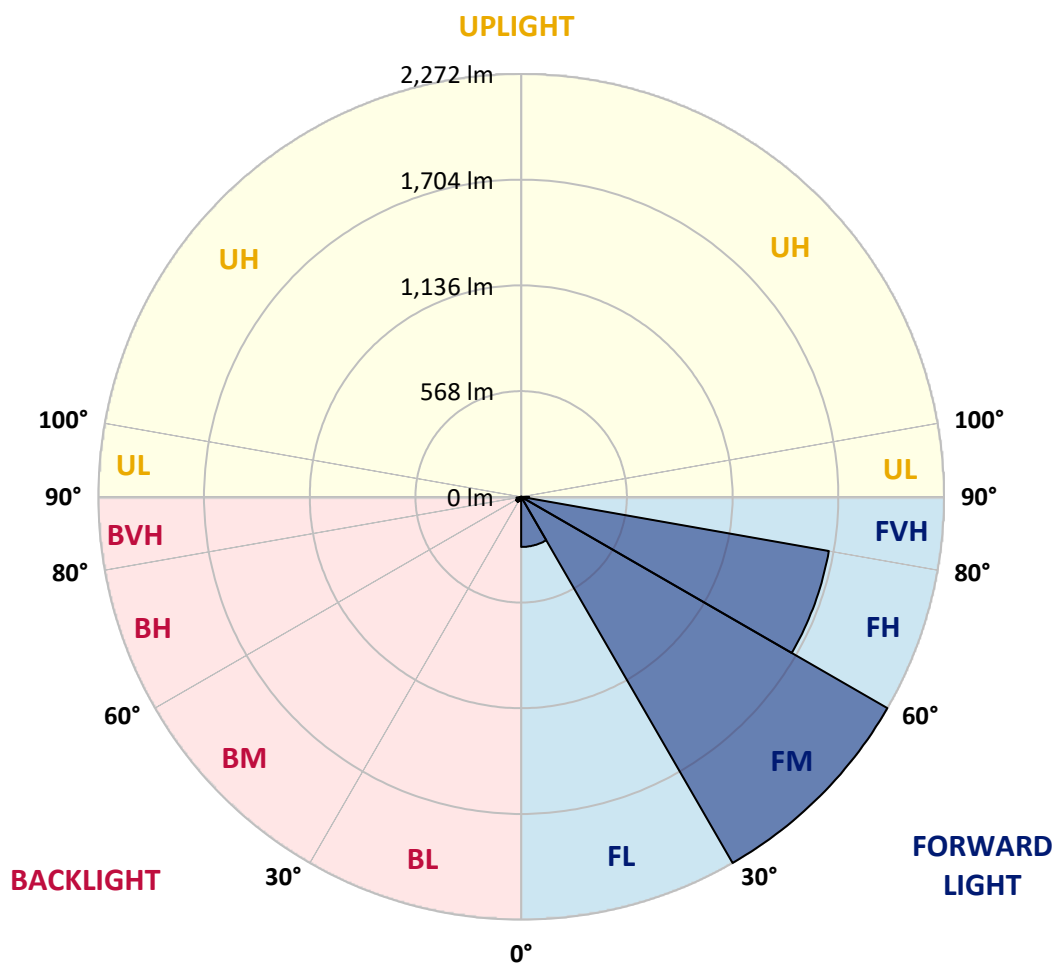
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	269.5	6.2			
FM	(30°-60°)	2272.4	52.3			
FH	(60°-80°)	1678.8	38.6			G1/1800
FVH	(80°-90°)	42.9	1.0			G1/100
BL	(0°-30°)	23.2	0.5	B0/110		
BM	(30°-60°)	32.2	0.7	B0/220		
BH	(60°-80°)	25.7	0.6	B0/110		G0/110
BVH	(80°-90°)	2.2	0.0			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
2.5°	130.3	128.5	128.5	125.8	122.2	118.5	114.9	114.0	113.1	112.2	112.2
5°	204.5	197.3	194.5	184.6	171.9	156.5	143.0	139.3	139.3	136.6	134.8
7.5°	321.2	317.6	298.6	288.6	258.8	221.7	182.8	179.2	178.3	174.6	169.2
10°	470.5	463.3	449.7	420.8	366.5	302.2	247.0	238.0	231.6	224.4	217.2
12.5°	619.8	610.8	590.9	543.8	489.5	407.2	318.5	310.4	300.4	290.5	278.7
15°	769.1	762.8	732.0	685.0	614.4	515.8	403.6	389.1	380.9	361.0	352.0
17.5°	898.5	890.4	865.9	812.5	739.3	630.7	497.7	479.6	466.0	454.2	432.5
20°	1010.7	1002.6	979.0	934.7	852.4	745.6	599.0	590.0	565.5	547.4	534.8
22.5°	1079.5	1076.8	1061.4	1018.9	945.6	850.6	714.8	700.3	684.1	659.6	645.2
25°	1122.0	1119.3	1110.2	1080.4	1030.6	960.9	842.4	824.3	809.8	788.1	770.0
27.5°	1166.3	1164.5	1157.3	1131.1	1104.8	1061.4	971.8	961.8	930.2	917.5	900.3
30°	1239.6	1231.5	1237.8	1225.2	1191.7	1164.5	1102.1	1087.6	1074.0	1052.3	1036.9
32.5°	1356.4	1342.8	1356.4	1342.8	1328.3	1295.7	1236.0	1231.5	1217.9	1204.3	1182.6
35°	1499.3	1493.9	1504.8	1516.5	1504.8	1461.3	1388.9	1375.4	1369.9	1348.2	1340.1
37.5°	1643.2	1653.1	1673.1	1699.3	1692.1	1660.4	1558.1	1545.5	1535.5	1516.5	1502.0
40°	1797.9	1798.8	1841.4	1879.4	1898.4	1879.4	1744.5	1734.6	1721.0	1693.9	1690.2
42.5°	1966.2	1959.0	1990.7	2033.2	2072.1	2098.3	1990.7	1971.6	1952.6	1921.9	1901.1
45°	2115.5	2115.5	2140.9	2180.7	2240.4	2306.4	2250.3	2230.4	2212.3	2187.0	2163.5
47.5°	2225.9	2226.8	2242.2	2300.1	2393.3	2491.9	2493.7	2497.4	2483.8	2453.9	2454.8
50°	2303.7	2293.8	2314.6	2370.7	2478.4	2633.1	2744.4	2750.7	2761.6	2737.1	2744.4
52.5°	2360.7	2356.2	2369.8	2416.8	2524.5	2713.6	2949.8	2976.9	2993.2	2996.8	3026.7
55°	2330.9	2333.6	2366.2	2434.0	2549.8	2767.0	3124.4	3168.8	3206.8	3239.3	3276.4
57.5°	2232.2	2240.4	2297.4	2403.3	2555.3	2810.4	3309.9	3377.8	3449.3	3536.1	3609.4
60°	2074.8	2093.8	2170.7	2319.1	2502.8	2753.4	3365.1	3469.2	3578.6	3710.8	3858.2
62.5°	1844.1	1847.7	1898.4	2042.2	2244.9	2450.3	3111.7	3244.8	3389.5	3580.5	3786.8
64°	1528.3	1560.9	1584.4	1742.7	1923.7	2179.8	2777.0	2869.3	3071.0	3305.4	3565.1
65°	1261.3	1300.3	1319.3	1477.6	1684.8	1929.1	2485.6	2584.2	2796.9	3034.8	3358.8
67.5°	743.8	717.5	772.7	865.9	1039.7	1329.2	1676.7	1751.8	1910.1	2193.3	2452.1
70°	479.6	479.6	530.2	625.2	786.3	1008.0	1151.9	1120.2	1153.7	1263.2	1445.9
72.5°	307.6	323.9	354.7	435.2	584.5	845.1	1177.2	1027.9	950.1	913.9	912.1
75°	140.3	149.3	182.8	230.7	312.2	551.0	1187.2	1122.0	1050.5	981.8	928.4
77.5°	29.9	34.4	57.9	119.4	152.0	254.3	842.4	940.1	1017.9	1040.6	1040.6
80°	15.4	16.3	24.4	56.1	65.1	86.0	324.8	427.1	526.6	657.8	795.4
82.5°	6.3	7.2	14.5	25.3	27.1	26.2	86.0	108.6	149.3	217.2	323.9
85°	1.8	1.8	6.3	10.0	14.5	11.8	19.0	21.7	28.1	40.7	77.8
87.5°	0.0	0.0	0.9	1.8	2.7	4.5	5.4	5.4	5.4	5.4	5.4
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
2.5°	111.3	111.3	110.4	109.5	109.5	107.7	107.7	106.8	106.8	105.9	105.9
5°	133.9	132.1	130.3	127.6	126.7	124.9	123.1	121.2	119.4	118.5	116.7
7.5°	166.5	164.7	159.3	155.6	151.1	148.4	144.8	142.1	139.3	137.5	133.9
10°	209.9	203.6	200.9	188.2	185.5	179.2	173.7	170.1	162.9	158.3	153.8
12.5°	271.5	259.7	255.2	233.4	227.1	218.1	211.7	202.7	194.5	189.1	181.0
15°	341.1	332.1	314.9	293.2	281.4	271.5	256.1	248.8	238.0	226.2	214.4
17.5°	424.4	408.1	389.1	361.0	346.6	331.2	316.7	301.3	283.2	272.4	259.7
20°	521.2	504.0	480.5	445.2	428.0	412.6	387.3	376.4	354.7	333.0	316.7
22.5°	627.1	609.9	587.2	547.4	524.8	499.5	478.7	459.7	434.3	412.6	393.6
25°	746.5	726.6	709.4	663.2	635.2	609.0	586.3	552.9	531.1	505.8	479.6
27.5°	882.2	858.7	836.1	785.4	759.2	730.2	703.1	667.8	647.0	605.3	580.9
30°	1021.6	992.6	969.1	917.5	894.0	864.1	827.0	795.4	760.1	732.0	692.2
32.5°	1168.2	1144.6	1125.6	1071.3	1041.5	1004.4	970.9	937.4	906.7	861.4	825.2
35°	1324.7	1303.9	1283.1	1236.0	1209.8	1181.7	1143.7	1103.0	1060.5	1013.4	980.8
37.5°	1489.4	1473.1	1456.8	1399.8	1369.0	1339.2	1295.7	1255.0	1217.0	1167.2	1112.1
40°	1662.2	1646.8	1620.6	1573.5	1540.9	1513.8	1474.0	1436.0	1384.4	1329.2	1280.4
42.5°	1879.4	1845.9	1823.3	1771.7	1737.3	1707.4	1672.1	1615.1	1571.7	1505.7	1458.6
45°	2133.6	2101.9	2064.8	2012.4	1969.8	1921.0	1871.2	1832.3	1778.0	1718.3	1657.7
47.5°	2419.5	2394.2	2350.8	2299.2	2256.7	2207.8	2149.0	2099.2	2033.2	1963.5	1881.2
50°	2734.4	2708.2	2679.2	2621.3	2578.8	2532.7	2486.5	2427.7	2368.0	2284.7	2199.7
52.5°	3026.7	3032.1	3014.9	2987.8	2967.0	2919.0	2876.5	2820.4	2767.9	2691.9	2625.8
55°	3315.3	3362.4	3380.5	3406.7	3415.8	3376.9	3376.0	3293.6	3262.0	3217.6	3179.6
57.5°	3696.3	3800.3	3882.7	4041.9	4108.9	4176.7	4189.4	4131.5	4191.2	4114.3	4140.6
60°	4020.2	4211.1	4415.6	4827.3	5033.6	5189.3	5314.1	5406.4	5466.1	5567.5	5572.9
62.5°	4049.2	4349.6	4660.8	5261.7	5544.0	5780.1	6005.4	6162.9	6287.7	6402.7	6430.7
64°	3910.7	4282.6	4660.8	5387.4	5676.1	5938.5	6143.9	6300.4	6428.0	6499.5	6546.5
65°	3659.2	4075.4	4510.6	5304.2	5601.9	5880.6	6076.9	6234.4	6354.7	6426.2	6475.0
67.5°	2710.9	3113.6	3550.6	4474.4	4943.1	5198.3	5449.9	5670.6	5767.5	5857.9	5875.1
70°	1652.2	1944.5	2245.8	3102.7	3537.9	3996.7	4279.9	4602.9	4829.1	4968.5	5014.6
72.5°	997.1	1098.5	1278.5	1739.1	2156.2	2478.4	2870.2	3178.7	3432.1	3572.3	3642.9
75°	887.6	875.0	898.5	1090.3	1238.7	1432.4	1574.4	1768.1	1924.6	1973.5	2064.8
77.5°	1026.1	989.9	952.8	916.6	909.4	891.3	862.3	869.6	800.8	734.7	736.5
80°	913.9	1000.8	1052.3	1014.3	928.4	841.5	734.7	601.7	470.5	389.1	354.7
82.5°	458.8	652.4	838.8	1023.4	1010.7	933.8	816.2	670.5	519.4	399.0	318.5
85°	141.2	250.6	352.9	490.4	569.1	558.3	490.4	476.9	340.2	265.1	204.5
87.5°	6.3	6.3	6.3	5.4	6.3	6.3	6.3	7.2	7.2	8.1	8.1
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
2.5°	105.9	105.0	104.1	103.2	103.2	103.2	102.2	102.2	101.3	101.3	100.4
5°	116.7	114.9	114.0	112.2	112.2	110.4	109.5	108.6	106.8	105.9	105.0
7.5°	131.2	129.4	126.7	124.0	123.1	120.3	117.6	115.8	114.0	112.2	110.4
10°	150.2	146.6	141.2	137.5	134.8	131.2	127.6	124.9	121.2	117.6	115.8
12.5°	174.6	167.4	162.0	155.6	150.2	144.8	138.4	134.8	131.2	125.8	122.2
15°	202.7	195.4	189.1	178.3	169.2	162.0	156.5	148.4	142.1	134.8	129.4
17.5°	250.6	231.6	219.0	208.1	199.1	185.5	174.6	165.6	157.4	148.4	142.1
20°	297.7	281.4	264.2	251.5	231.6	219.9	205.4	192.7	178.3	167.4	156.5
22.5°	366.5	345.6	323.9	304.9	277.8	261.5	242.5	226.2	208.1	190.0	178.3
25°	453.3	422.6	393.6	366.5	341.1	316.7	292.3	266.0	247.0	225.3	205.4
27.5°	544.7	510.3	482.3	447.0	414.4	384.6	353.8	325.7	293.2	265.1	241.6
30°	659.6	612.6	580.0	537.5	504.9	463.3	425.3	388.2	348.4	315.8	282.3
32.5°	776.4	744.7	689.5	653.3	604.4	554.7	514.9	472.3	423.5	380.9	340.2
35°	930.2	875.9	829.7	779.1	725.7	674.1	622.5	561.9	512.1	459.7	409.9
37.5°	1065.9	1010.7	957.3	891.3	830.6	776.4	713.9	650.6	591.8	529.3	469.6
40°	1223.3	1154.6	1091.2	1029.7	954.6	890.4	825.2	746.5	678.6	609.9	539.3
42.5°	1395.3	1325.6	1250.5	1179.9	1097.6	1018.9	938.3	859.6	783.6	700.3	618.0
45°	1583.5	1510.2	1426.0	1345.5	1255.9	1169.1	1073.1	982.7	893.1	799.9	704.9
47.5°	1816.9	1722.8	1645.0	1544.6	1433.3	1341.9	1224.3	1121.1	1018.9	910.3	803.5
50°	2119.1	2012.4	1900.2	1788.9	1665.8	1550.0	1419.7	1297.5	1160.9	1039.7	917.5
52.5°	2520.0	2440.4	2310.1	2182.5	2032.3	1884.8	1705.6	1547.3	1371.7	1217.0	1067.7
55°	3089.1	3036.6	2923.5	2784.2	2653.0	2437.6	2231.3	1985.2	1757.2	1534.6	1324.7
57.5°	4119.7	4062.7	3937.0	3903.5	3701.7	3543.4	3301.8	2983.3	2596.9	2256.7	1917.4
60°	5603.7	5492.4	5369.3	5346.7	5109.6	4943.1	4703.4	4364.0	4000.3	3457.4	2995.0
62.5°	6432.5	6399.0	6299.5	6177.4	5972.0	5724.9	5455.3	5126.8	4757.7	4281.7	3731.6
64°	6543.8	6513.0	6427.1	6289.6	6083.2	5838.0	5539.4	5211.9	4841.8	4407.5	3905.3
65°	6474.1	6430.7	6357.4	6230.7	6038.9	5803.7	5503.2	5171.2	4795.7	4377.6	3910.7
67.5°	5912.2	5892.3	5825.4	5707.7	5587.4	5375.7	5111.4	4814.7	4507.9	4093.5	3710.8
70°	5020.1	5005.6	4920.5	4873.5	4674.4	4540.5	4327.0	4093.5	3822.0	3533.4	3207.7
72.5°	3721.6	3672.8	3604.0	3532.5	3397.7	3214.0	3047.5	2798.7	2658.4	2415.0	2231.3
75°	1973.5	1942.7	1835.9	1686.6	1520.1	1434.2	1261.3	1106.6	983.6	928.4	795.4
77.5°	682.3	621.6	561.9	494.9	392.7	309.5	247.0	197.3	155.6	137.5	114.9
80°	340.2	323.0	304.0	266.0	223.5	180.1	141.2	111.3	91.4	77.8	69.7
82.5°	276.0	244.3	218.1	190.9	152.9	125.8	99.5	81.4	67.0	58.8	51.6
85°	162.9	124.9	95.0	86.0	67.0	57.9	49.8	42.5	36.2	34.4	31.7
87.5°	6.3	8.1	8.1	6.3	8.1	7.2	7.2	6.3	6.3	6.3	6.3
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
2.5°	100.4	99.5	99.5	98.6	97.7	97.7	97.7	96.8	95.0	91.4	88.7
5°	104.1	103.2	102.2	100.4	99.5	98.6	97.7	97.7	93.2	86.9	82.3
7.5°	108.6	106.8	105.0	103.2	102.2	100.4	98.6	97.7	91.4	83.2	78.7
10°	113.1	110.4	107.7	106.8	104.1	102.2	99.5	97.7	90.5	80.5	74.2
12.5°	118.5	114.9	111.3	108.6	105.0	103.2	100.4	97.7	88.7	77.8	70.6
15°	124.9	119.4	114.9	112.2	108.6	104.1	100.4	97.7	86.9	75.1	67.0
17.5°	133.0	126.7	121.2	115.8	110.4	105.9	102.2	98.6	84.2	71.5	62.4
20°	145.7	137.5	128.5	122.2	114.9	109.5	103.2	98.6	82.3	67.9	58.8
22.5°	162.9	150.2	140.3	129.4	120.3	113.1	105.9	100.4	79.6	64.2	54.3
25°	187.3	171.0	154.7	141.2	129.4	119.4	110.4	103.2	77.8	61.5	51.6
27.5°	214.4	195.4	173.7	157.4	141.2	126.7	116.7	107.7	77.8	59.7	48.9
30°	252.5	225.3	199.1	178.3	156.5	140.3	125.8	114.0	77.8	58.8	46.1
32.5°	298.6	267.8	234.4	204.5	179.2	155.6	137.5	122.2	79.6	57.0	44.3
35°	362.8	317.6	277.8	240.7	207.2	180.1	156.5	135.7	82.3	56.1	41.6
37.5°	413.5	359.2	308.6	266.0	227.1	193.6	163.8	141.2	79.6	52.5	38.9
40°	474.1	412.6	351.1	297.7	253.4	209.9	175.5	148.4	77.8	48.0	35.3
42.5°	547.4	470.5	399.0	338.4	283.2	231.6	190.9	157.4	77.8	45.2	32.6
45°	616.2	532.0	452.4	376.4	312.2	255.2	205.4	167.4	76.9	42.5	29.0
47.5°	701.3	601.7	508.5	420.8	346.6	276.9	220.8	176.4	76.0	39.8	26.2
50°	801.7	680.4	575.5	470.5	380.0	303.1	238.9	186.4	74.2	37.1	23.5
52.5°	913.0	782.7	648.8	527.5	421.7	331.2	256.1	195.4	71.5	34.4	20.8
55°	1110.2	931.1	772.7	622.5	485.0	372.8	281.4	209.0	68.8	31.7	18.1
57.5°	1583.5	1286.7	1062.3	836.1	638.8	478.7	350.2	247.9	65.1	28.1	14.5
60°	2486.5	1997.0	1616.0	1267.7	966.4	734.7	515.8	366.5	69.7	23.5	12.7
62.5°	3189.6	2626.8	2141.8	1704.7	1323.8	1006.2	751.0	547.4	100.4	20.8	10.0
64°	3373.2	2803.2	2285.6	1827.8	1431.5	1103.9	837.9	618.9	129.4	20.8	9.0
65°	3400.4	2857.5	2337.2	1873.0	1468.6	1130.1	863.2	642.4	141.2	21.7	8.1
67.5°	3288.2	2825.8	2352.6	1892.0	1496.6	1166.3	897.6	679.5	159.3	20.8	6.3
70°	2872.0	2531.7	2142.7	1769.9	1411.6	1108.4	863.2	658.7	166.5	19.9	5.4
72.5°	1954.5	1720.1	1490.3	1226.1	982.7	809.8	629.8	464.2	116.7	16.3	4.5
75°	651.5	635.2	568.2	430.7	361.9	294.1	235.3	181.0	44.3	10.0	4.5
77.5°	108.6	93.2	81.4	77.8	65.1	63.3	55.2	44.3	19.0	6.3	4.5
80°	63.3	57.9	50.7	45.2	39.8	35.3	29.9	25.3	11.8	4.5	5.4
82.5°	47.1	41.6	37.1	32.6	28.1	24.4	20.8	17.2	6.3	4.5	5.4
85°	27.1	23.5	20.8	18.1	14.5	12.7	10.9	9.0	4.5	4.5	4.5
87.5°	5.4	5.4	4.5	4.5	4.5	4.5	4.5	3.6	4.5	4.5	3.6
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):

	125°	135°	145°	155°	165°	175°	180°
0°	96.8	96.8	96.8	96.8	96.8	96.8	96.8
2.5°	86.9	84.2	83.2	83.2	83.2	83.2	83.2
5°	79.6	76.9	75.1	74.2	74.2	74.2	74.2
7.5°	74.2	70.6	68.8	67.0	67.0	66.1	66.1
10°	68.8	65.1	62.4	60.6	59.7	59.7	59.7
12.5°	64.2	60.6	57.0	55.2	55.2	54.3	54.3
15°	60.6	55.2	52.5	50.7	50.7	49.8	49.8
17.5°	56.1	51.6	48.9	47.1	46.1	46.1	46.1
20°	51.6	47.1	44.3	43.4	42.5	42.5	41.6
22.5°	48.0	43.4	40.7	39.8	38.9	38.9	38.0
25°	44.3	39.8	37.1	36.2	35.3	34.4	34.4
27.5°	41.6	37.1	34.4	32.6	31.7	30.8	30.8
30°	38.9	33.5	30.8	29.0	28.1	27.1	27.1
32.5°	36.2	30.8	27.1	25.3	24.4	23.5	23.5
35°	32.6	27.1	23.5	22.6	21.7	20.8	19.9
37.5°	29.9	23.5	20.8	19.0	18.1	17.2	17.2
40°	26.2	20.8	18.1	16.3	14.5	13.6	13.6
42.5°	23.5	18.1	15.4	12.7	11.8	10.9	10.9
45°	20.8	16.3	12.7	10.0	9.0	8.1	8.1
47.5°	18.1	13.6	10.0	8.1	7.2	6.3	6.3
50°	15.4	10.9	7.2	5.4	6.3	5.4	5.4
52.5°	13.6	8.1	5.4	5.4	5.4	5.4	5.4
55°	10.9	6.3	4.5	4.5	5.4	5.4	5.4
57.5°	9.0	4.5	3.6	4.5	4.5	4.5	4.5
60°	6.3	3.6	3.6	4.5	4.5	4.5	4.5
62.5°	5.4	3.6	3.6	3.6	4.5	4.5	4.5
64°	4.5	3.6	3.6	3.6	4.5	4.5	4.5
65°	4.5	3.6	3.6	3.6	4.5	4.5	4.5
67.5°	4.5	3.6	3.6	3.6	4.5	4.5	4.5
70°	3.6	3.6	3.6	3.6	4.5	4.5	4.5
72.5°	3.6	3.6	3.6	3.6	4.5	4.5	4.5
75°	3.6	3.6	3.6	3.6	4.5	4.5	4.5
77.5°	3.6	3.6	3.6	4.5	4.5	4.5	4.5
80°	3.6	3.6	3.6	4.5	4.5	4.5	4.5
82.5°	3.6	3.6	3.6	4.5	4.5	4.5	4.5
85°	3.6	3.6	3.6	4.5	4.5	4.5	4.5
87.5°	3.6	3.6	3.6	4.5	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)