

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: P181225

Luminaire Tested: **ICS-E04-LED-E1-T2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181225
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-E04-LED-E1-T2-HSS-7030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ HOUSE SIDE SHIELD
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5265.5 lumens
Efficiency: N/A
Efficacy: 54.2 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 - 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

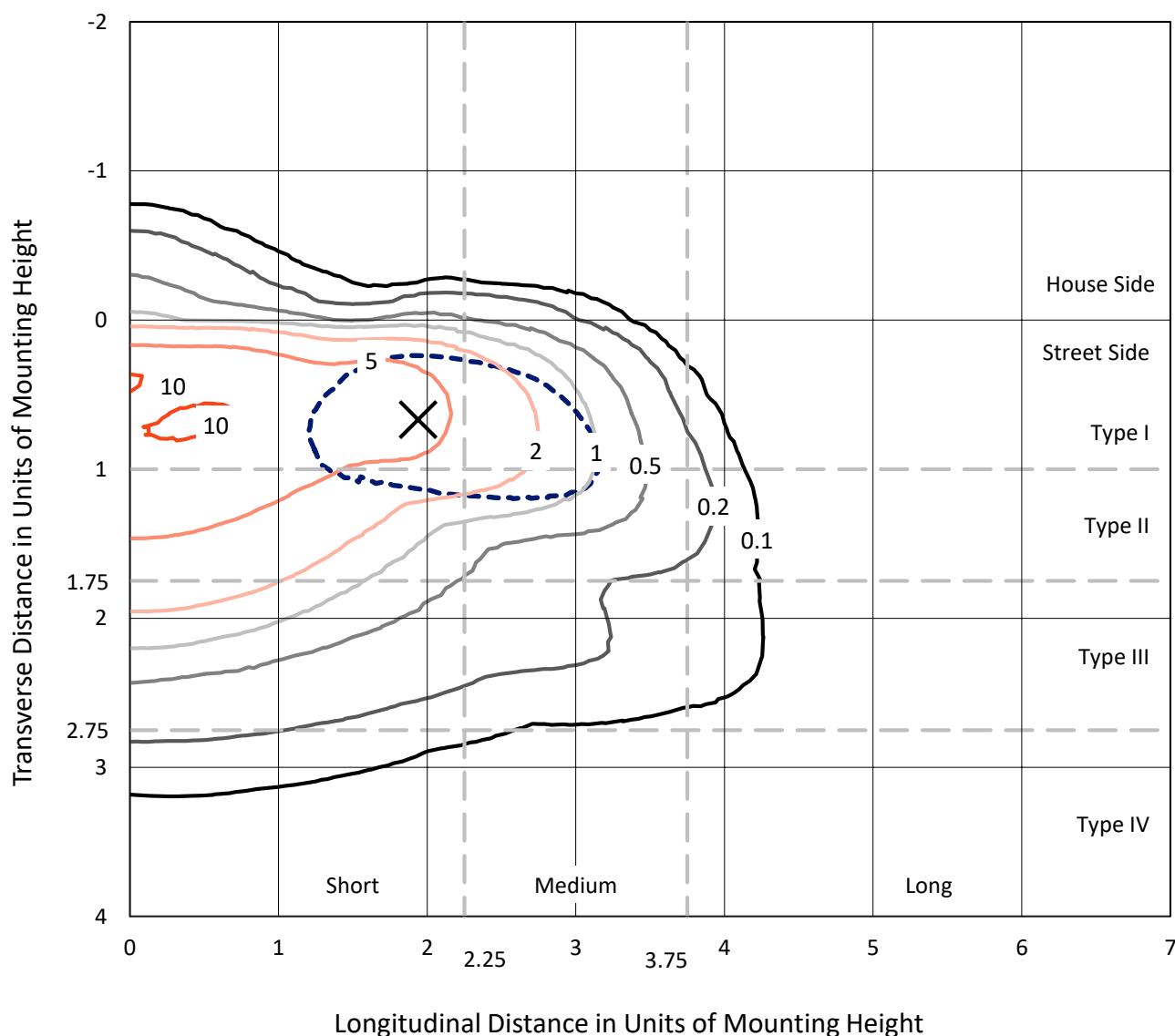


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

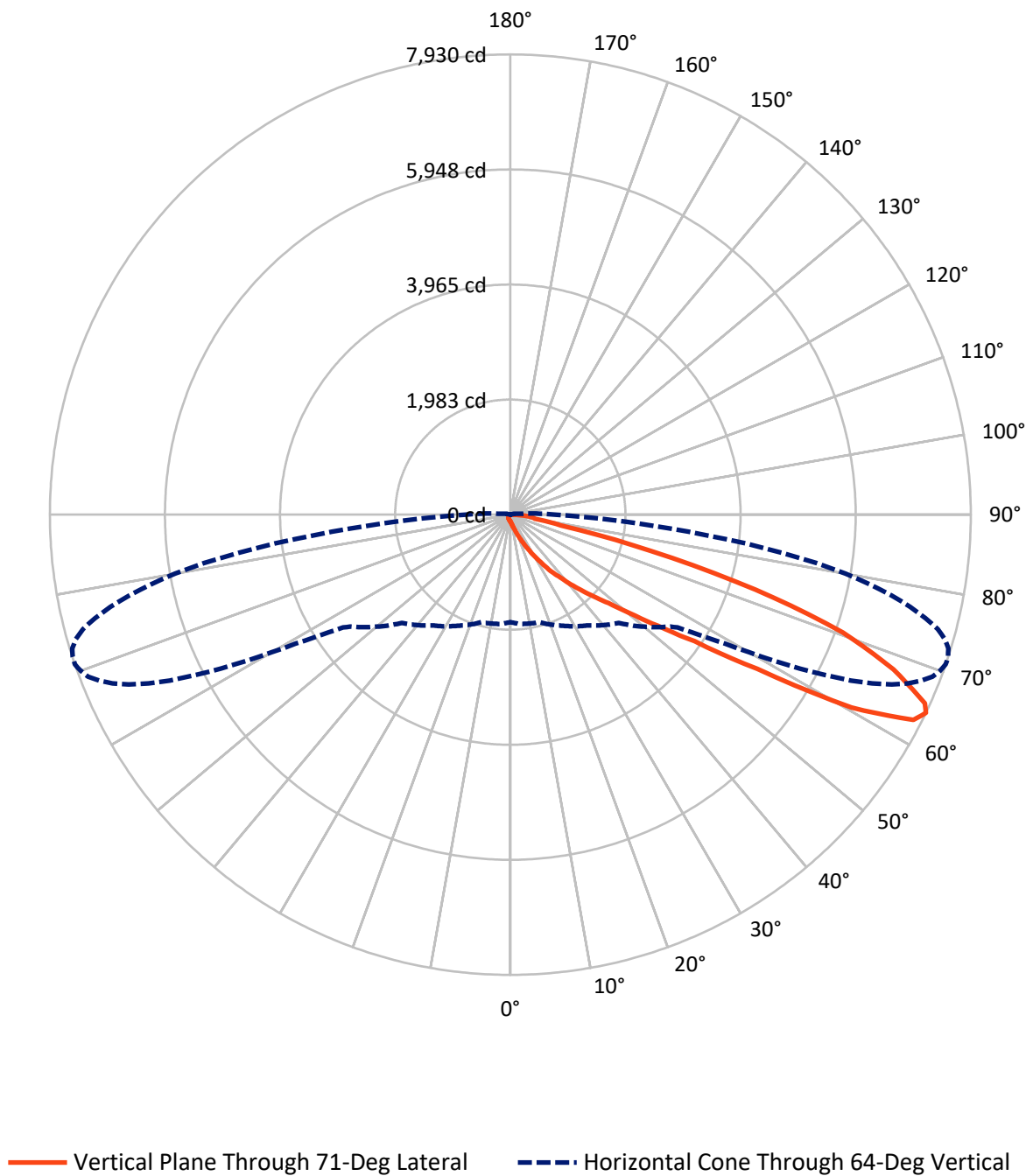


Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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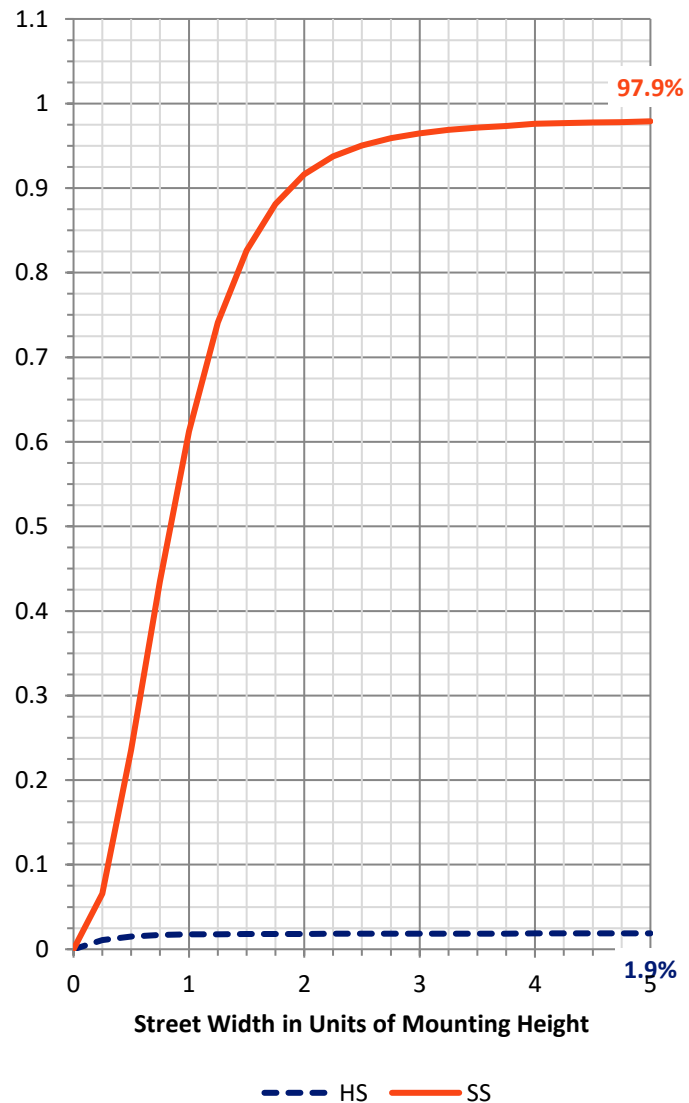
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	100.9	0.0	100.9
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	5164.6	0.0	5164.6
	% Fixture	98.1	0.0	98.1
Total	Lumens	5265.5	0.0	5265.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.1	0.3
10°-20°	95.2	1.8
20°-30°	243.2	4.6
30°-40°	491.8	9.3
40°-50°	899.1	17.1
50°-60°	1400.7	26.6
60°-70°	1556.9	29.6
70°-80°	507.8	9.6
80°-90°	54.7	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°	5265.5	100.0
0°-180°	5265.5	100.0

Coefficient of Utilization



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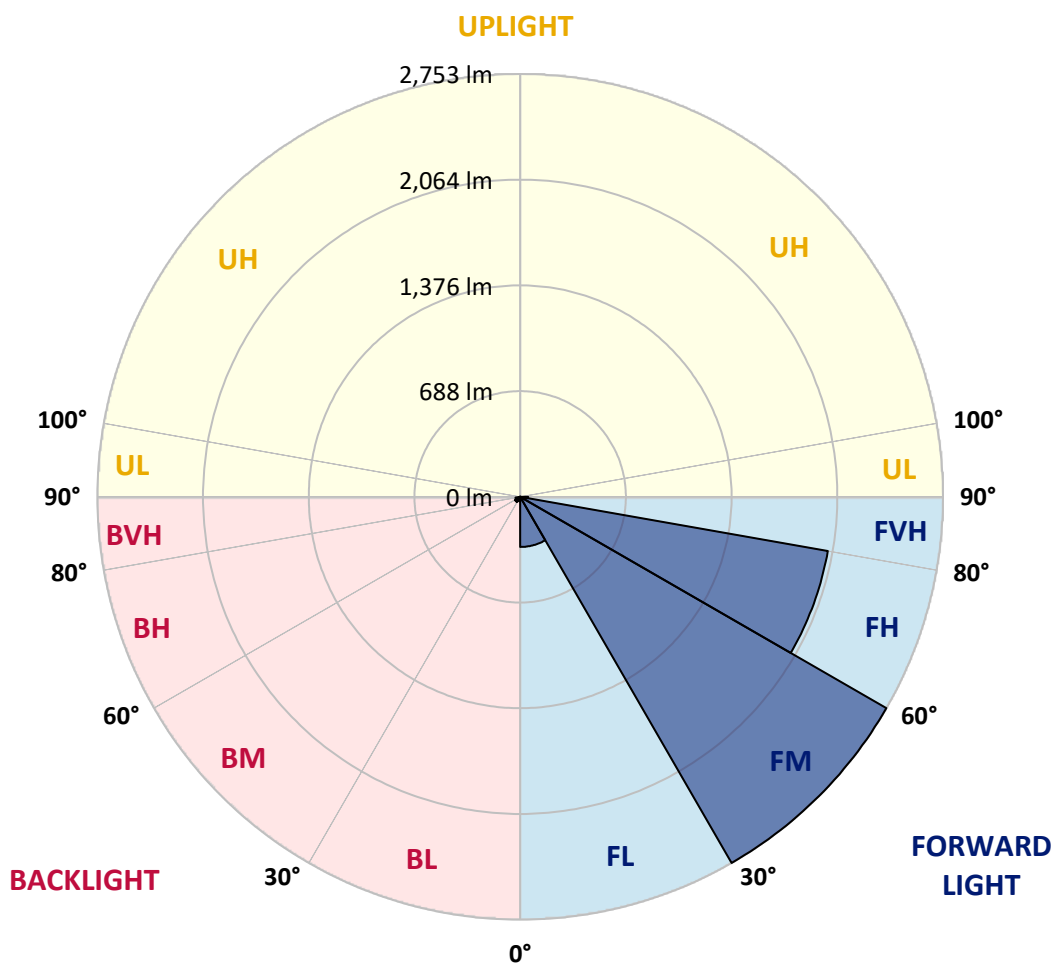
CATALOG NUMBER: ICS-E04-LED-E1-T2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	326.4	6.2			
FM	(30°-60°)	2752.7	52.3			
FH	(60°-80°)	2033.6	38.6			G2/5000
FVH	(80°-90°)	52.0	1.0			G1/100
BL	(0°-30°)	28.1	0.5	B0/110		
BM	(30°-60°)	39.0	0.7	B0/220		
BH	(60°-80°)	31.1	0.6	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3
2.5°	157.8	155.6	155.6	152.4	148.0	143.6	139.2	138.1	137.0	135.9	135.9
5°	247.7	238.9	235.7	223.6	208.3	189.6	173.2	168.8	168.8	165.5	163.3
7.5°	389.1	384.7	361.7	349.6	313.5	268.5	221.4	217.0	215.9	211.5	205.0
10°	570.0	561.2	544.8	509.7	443.9	366.1	299.2	288.3	280.6	271.8	263.1
12.5°	750.8	739.9	715.7	658.7	593.0	493.2	385.8	376.0	363.9	351.8	337.6
15°	931.7	924.0	886.7	829.7	744.2	624.8	488.9	471.3	461.4	437.3	426.4
17.5°	1088.4	1078.5	1048.9	984.3	895.5	764.0	602.8	580.9	564.5	550.2	523.9
20°	1224.3	1214.5	1186.0	1132.3	1032.5	903.2	725.6	714.6	685.1	663.1	647.8
22.5°	1307.6	1304.3	1285.7	1234.2	1145.4	1030.3	865.9	848.4	828.6	799.0	781.5
25°	1359.1	1355.9	1344.9	1308.7	1248.4	1164.0	1020.5	998.5	981.0	954.7	932.8
27.5°	1412.8	1410.7	1401.9	1370.1	1338.3	1285.7	1177.2	1165.1	1126.8	1111.4	1090.6
30°	1501.6	1491.8	1499.4	1484.1	1443.5	1410.7	1335.0	1317.5	1301.0	1274.7	1256.1
32.5°	1643.0	1626.6	1643.0	1626.6	1609.0	1569.6	1497.2	1491.8	1475.3	1458.9	1432.6
35°	1816.2	1809.6	1822.8	1837.0	1822.8	1770.2	1682.5	1666.0	1659.5	1633.2	1623.3
37.5°	1990.5	2002.5	2026.7	2058.4	2049.7	2011.3	1887.4	1872.1	1860.0	1837.0	1819.5
40°	2177.9	2179.0	2230.5	2276.6	2299.6	2276.6	2113.2	2101.2	2084.7	2051.9	2047.5
42.5°	2381.8	2373.0	2411.4	2462.9	2510.0	2541.8	2411.4	2388.4	2365.3	2328.1	2302.9
45°	2562.6	2562.6	2593.3	2641.6	2713.9	2793.9	2726.0	2701.8	2679.9	2649.2	2620.7
47.5°	2696.4	2697.5	2716.1	2786.2	2899.1	3018.6	3020.8	3025.2	3008.7	2972.6	2973.7
50°	2790.6	2778.6	2803.8	2871.7	3002.2	3189.6	3324.4	3332.1	3345.2	3315.6	3324.4
52.5°	2859.7	2854.2	2870.6	2927.6	3058.1	3287.1	3573.2	3606.1	3625.8	3630.2	3666.4
55°	2823.5	2826.8	2866.2	2948.5	3088.8	3351.8	3784.8	3838.5	3884.5	3924.0	3968.9
57.5°	2704.0	2713.9	2782.9	2911.2	3095.3	3404.4	4009.5	4091.7	4178.3	4283.5	4372.3
60°	2513.3	2536.3	2629.5	2809.3	3031.8	3335.4	4076.3	4202.4	4335.0	4495.0	4673.7
62.5°	2233.8	2238.2	2299.6	2473.9	2719.4	2968.2	3769.4	3930.5	4105.9	4337.2	4587.1
64°	1851.3	1890.7	1919.2	2111.1	2330.3	2640.5	3363.9	3475.7	3720.1	4004.0	4318.6
65°	1527.9	1575.1	1598.1	1789.9	2040.9	2336.8	3010.9	3130.4	3388.0	3676.3	4068.6
67.5°	901.0	869.2	936.1	1048.9	1259.4	1610.1	2031.0	2122.0	2313.8	2656.9	2970.4
70°	580.9	580.9	642.3	757.4	952.5	1221.0	1395.3	1356.9	1397.5	1530.1	1751.5
72.5°	372.7	392.4	429.7	527.2	708.1	1023.7	1426.0	1245.1	1150.9	1107.0	1104.8
75°	169.9	180.9	221.4	279.5	378.1	667.5	1438.1	1359.1	1272.5	1189.2	1124.6
77.5°	36.2	41.7	70.1	144.7	184.1	308.0	1020.5	1138.8	1233.1	1260.5	1260.5
80°	18.6	19.7	29.6	68.0	78.9	104.1	393.5	517.3	637.9	796.9	963.5
82.5°	7.7	8.8	17.5	30.7	32.9	31.8	104.1	131.5	180.9	263.1	392.4
85°	2.2	2.2	7.7	12.1	17.5	14.2	23.0	26.3	34.0	49.3	94.3
87.5°	0.0	0.0	1.1	2.2	3.3	5.5	6.6	6.6	6.6	6.6	6.6
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3
2.5°	134.8	134.8	133.7	132.6	132.6	130.4	130.4	129.3	129.3	128.2	128.2
5°	162.2	160.0	157.8	154.5	153.5	151.3	149.1	146.9	144.7	143.6	141.4
7.5°	201.7	199.5	192.9	188.5	183.0	179.8	175.4	172.1	168.8	166.6	162.2
10°	254.3	246.6	243.3	228.0	224.7	217.0	210.4	206.1	197.3	191.8	186.3
12.5°	328.8	314.6	309.1	282.8	275.1	264.2	256.5	245.5	235.7	229.1	219.2
15°	413.2	402.3	381.4	355.1	340.9	328.8	310.2	301.4	288.3	274.0	259.8
17.5°	514.1	494.3	471.3	437.3	419.8	401.2	383.6	365.0	343.1	329.9	314.6
20°	631.3	610.5	582.0	539.3	518.4	499.8	469.1	456.0	429.7	403.4	383.6
22.5°	759.6	738.8	711.4	663.1	635.7	605.0	579.8	556.8	526.1	499.8	476.8
25°	904.3	880.2	859.3	803.4	769.4	737.7	710.3	669.7	643.4	612.7	580.9
27.5°	1068.7	1040.2	1012.8	951.4	919.6	884.5	851.7	808.9	783.7	733.3	703.7
30°	1237.5	1202.4	1173.9	1111.4	1082.9	1046.8	1001.8	963.5	920.7	886.7	838.5
32.5°	1415.0	1386.5	1363.5	1297.8	1261.6	1216.6	1176.1	1135.5	1098.3	1043.5	999.6
35°	1604.7	1579.5	1554.2	1497.2	1465.5	1431.5	1385.4	1336.1	1284.6	1227.6	1188.2
37.5°	1804.1	1784.4	1764.7	1695.6	1658.4	1622.2	1569.6	1520.3	1474.2	1413.9	1347.1
40°	2013.5	1994.9	1963.1	1906.1	1866.6	1833.7	1785.5	1739.5	1677.0	1610.1	1551.0
42.5°	2276.6	2236.0	2208.6	2146.1	2104.5	2068.3	2025.6	1956.5	1903.9	1823.9	1766.9
45°	2584.6	2546.2	2501.3	2437.7	2386.2	2327.0	2266.7	2219.6	2153.8	2081.5	2008.0
47.5°	2930.9	2900.2	2847.6	2785.1	2733.6	2674.4	2603.2	2542.9	2462.9	2378.5	2278.8
50°	3312.4	3280.6	3245.5	3175.3	3123.8	3067.9	3012.0	2940.8	2868.4	2767.6	2664.6
52.5°	3666.4	3673.0	3652.1	3619.3	3594.0	3536.0	3484.4	3416.5	3352.9	3260.8	3180.8
55°	4016.0	4073.0	4095.0	4126.7	4137.7	4090.6	4089.5	3989.7	3951.4	3897.7	3851.6
57.5°	4477.5	4603.5	4703.3	4896.2	4977.3	5059.5	5074.9	5004.7	5077.0	4983.9	5015.7
60°	4869.9	5101.2	5348.9	5847.6	6097.5	6286.0	6437.3	6549.1	6621.4	6744.2	6750.8
62.5°	4905.0	5268.9	5645.9	6373.7	6715.7	7001.8	7274.7	7465.4	7616.7	7755.9	7789.8
64°	4737.3	5187.7	5645.9	6526.1	6875.7	7193.6	7442.4	7632.0	7786.6	7873.1	7930.1
65°	4432.5	4936.7	5464.0	6425.2	6785.8	7123.4	7361.3	7552.0	7697.8	7784.4	7843.5
67.5°	3283.9	3771.6	4301.0	5420.1	5987.9	6297.0	6601.7	6869.1	6986.4	7096.0	7116.8
70°	2001.4	2355.5	2720.5	3758.5	4285.7	4841.4	5184.5	5575.8	5849.8	6018.6	6074.5
72.5°	1207.9	1330.6	1548.8	2106.7	2612.0	3002.2	3476.8	3850.5	4157.4	4327.3	4412.8
75°	1075.3	1059.9	1088.4	1320.8	1500.5	1735.1	1907.2	2141.7	2331.4	2390.6	2501.3
77.5°	1243.0	1199.1	1154.2	1110.3	1101.6	1079.6	1044.6	1053.3	970.0	890.0	892.2
80°	1107.0	1212.3	1274.7	1228.7	1124.6	1019.4	890.0	728.9	570.0	471.3	429.7
82.5°	555.7	790.3	1016.1	1239.7	1224.3	1131.2	988.7	812.2	629.1	483.4	385.8
85°	171.0	303.6	427.5	594.1	689.4	676.3	594.1	577.6	412.1	321.2	247.7
87.5°	7.7	7.7	7.7	6.6	7.7	7.7	7.7	8.8	8.8	9.9	9.9
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3
2.5°	128.2	127.1	126.0	125.0	125.0	125.0	123.9	123.9	122.8	122.8	121.7
5°	141.4	139.2	138.1	135.9	135.9	133.7	132.6	131.5	129.3	128.2	127.1
7.5°	158.9	156.7	153.5	150.2	149.1	145.8	142.5	140.3	138.1	135.9	133.7
10°	181.9	177.6	171.0	166.6	163.3	158.9	154.5	151.3	146.9	142.5	140.3
12.5°	211.5	202.8	196.2	188.5	181.9	175.4	167.7	163.3	158.9	152.4	148.0
15°	245.5	236.8	229.1	215.9	205.0	196.2	189.6	179.8	172.1	163.3	156.7
17.5°	303.6	280.6	265.3	252.1	241.1	224.7	211.5	200.6	190.7	179.8	172.1
20°	360.6	340.9	320.1	304.7	280.6	266.3	248.8	233.5	215.9	202.8	189.6
22.5°	443.9	418.7	392.4	369.4	336.5	316.8	293.7	274.0	252.1	230.2	215.9
25°	549.1	511.9	476.8	443.9	413.2	383.6	354.0	322.2	299.2	272.9	248.8
27.5°	659.8	618.2	584.2	541.5	502.0	465.8	428.6	394.6	355.1	321.2	292.7
30°	799.0	742.0	702.6	651.1	611.6	561.2	515.2	470.2	422.0	382.5	342.0
32.5°	940.4	902.1	835.2	791.4	732.2	671.9	623.7	572.2	513.0	461.4	412.1
35°	1126.8	1061.0	1005.1	943.7	879.1	816.6	754.1	680.7	620.4	556.8	496.5
37.5°	1291.2	1224.3	1159.7	1079.6	1006.2	940.4	864.8	788.1	716.8	641.2	568.9
40°	1481.9	1398.6	1321.9	1247.3	1156.4	1078.5	999.6	904.3	822.1	738.8	653.3
42.5°	1690.2	1605.8	1514.8	1429.3	1329.5	1234.2	1136.6	1041.3	949.2	848.4	748.6
45°	1918.1	1829.4	1727.4	1629.9	1521.4	1416.1	1300.0	1190.3	1081.8	968.9	853.8
47.5°	2200.9	2086.9	1992.7	1871.0	1736.2	1625.5	1483.0	1358.0	1234.2	1102.7	973.3
50°	2567.0	2437.7	2301.8	2167.0	2017.9	1877.6	1719.7	1571.8	1406.3	1259.4	1111.4
52.5°	3052.6	2956.1	2798.3	2643.7	2461.8	2283.1	2066.1	1874.3	1661.7	1474.2	1293.4
55°	3742.0	3678.4	3541.4	3372.6	3213.7	2952.8	2702.9	2404.8	2128.6	1859.0	1604.7
57.5°	4990.5	4921.4	4769.0	4728.5	4484.1	4292.2	3999.6	3613.8	3145.7	2733.6	2322.6
60°	6788.0	6653.2	6504.1	6476.7	6189.6	5987.9	5697.4	5286.4	4845.8	4188.1	3628.0
62.5°	7792.0	7751.5	7630.9	7482.9	7234.1	6934.9	6608.3	6210.4	5763.2	5186.7	4520.2
64°	7926.9	7889.6	7785.5	7618.9	7368.9	7071.9	6710.2	6313.4	5865.1	5339.0	4730.7
65°	7842.5	7789.8	7701.1	7547.6	7315.2	7030.3	6666.4	6264.1	5809.2	5302.8	4737.3
67.5°	7161.8	7137.7	7056.6	6914.1	6768.3	6511.8	6191.8	5832.2	5460.7	4958.7	4495.0
70°	6081.1	6063.5	5960.5	5903.5	5662.3	5500.1	5241.5	4958.7	4629.8	4280.2	3885.6
72.5°	4508.2	4449.0	4365.7	4279.1	4115.8	3893.3	3691.6	3390.2	3220.3	2925.4	2702.9
75°	2390.6	2353.3	2223.9	2043.1	1841.4	1737.3	1527.9	1340.5	1191.4	1124.6	963.5
77.5°	826.4	753.0	680.7	599.6	475.7	374.9	299.2	238.9	188.5	166.6	139.2
80°	412.1	391.3	368.3	322.2	270.7	218.1	171.0	134.8	110.7	94.3	84.4
82.5°	334.3	295.9	264.2	231.3	185.2	152.4	120.6	98.6	81.1	71.2	62.5
85°	197.3	151.3	115.1	104.1	81.1	70.1	60.3	51.5	43.8	41.7	38.4
87.5°	7.7	9.9	9.9	7.7	9.9	8.8	8.8	7.7	7.7	7.7	7.7
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°	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3
2.5°	121.7	120.6	120.6	119.5	118.4	118.4	118.4	117.3	115.1	110.7	107.4
5°	126.0	125.0	123.9	121.7	120.6	119.5	118.4	118.4	112.9	105.2	99.7
7.5°	131.5	129.3	127.1	125.0	123.9	121.7	119.5	118.4	110.7	100.8	95.4
10°	137.0	133.7	130.4	129.3	126.0	123.9	120.6	118.4	109.6	97.6	89.9
12.5°	143.6	139.2	134.8	131.5	127.1	125.0	121.7	118.4	107.4	94.3	85.5
15°	151.3	144.7	139.2	135.9	131.5	126.0	121.7	118.4	105.2	91.0	81.1
17.5°	161.1	153.5	146.9	140.3	133.7	128.2	123.9	119.5	101.9	86.6	75.6
20°	176.5	166.6	155.6	148.0	139.2	132.6	125.0	119.5	99.7	82.2	71.2
22.5°	197.3	181.9	169.9	156.7	145.8	137.0	128.2	121.7	96.5	77.8	65.8
25°	226.9	207.2	187.4	171.0	156.7	144.7	133.7	125.0	94.3	74.5	62.5
27.5°	259.8	236.8	210.4	190.7	171.0	153.5	141.4	130.4	94.3	72.3	59.2
30°	305.8	272.9	241.1	215.9	189.6	169.9	152.4	138.1	94.3	71.2	55.9
32.5°	361.7	324.4	283.9	247.7	217.0	188.5	166.6	148.0	96.5	69.1	53.7
35°	439.5	384.7	336.5	291.6	251.0	218.1	189.6	164.4	99.7	68.0	50.4
37.5°	500.9	435.1	373.8	322.2	275.1	234.6	198.4	171.0	96.5	63.6	47.1
40°	574.3	499.8	425.3	360.6	306.9	254.3	212.6	179.8	94.3	58.1	42.7
42.5°	663.1	570.0	483.4	409.9	343.1	280.6	231.3	190.7	94.3	54.8	39.5
45°	746.4	644.5	548.0	456.0	378.1	309.1	248.8	202.8	93.2	51.5	35.1
47.5°	849.5	728.9	616.0	509.7	419.8	335.4	267.4	213.7	92.1	48.2	31.8
50°	971.1	824.3	697.1	570.0	460.4	367.2	289.4	225.8	89.9	44.9	28.5
52.5°	1105.9	948.1	785.9	639.0	510.8	401.2	310.2	236.8	86.6	41.7	25.2
55°	1344.9	1127.9	936.1	754.1	587.5	451.6	340.9	253.2	83.3	38.4	21.9
57.5°	1918.1	1558.6	1286.8	1012.8	773.8	579.8	424.2	300.3	78.9	34.0	17.5
60°	3012.0	2419.0	1957.6	1535.6	1170.6	890.0	624.8	443.9	84.4	28.5	15.3
62.5°	3863.7	3181.9	2594.4	2065.0	1603.6	1218.8	909.7	663.1	121.7	25.2	12.1
64°	4086.2	3395.7	2768.7	2214.1	1734.0	1337.2	1015.0	749.7	156.7	25.2	11.0
65°	4119.1	3461.4	2831.2	2268.9	1778.9	1369.0	1045.7	778.2	171.0	26.3	9.9
67.5°	3983.2	3423.1	2849.8	2291.9	1812.9	1412.8	1087.3	823.2	192.9	25.2	7.7
70°	3479.0	3066.8	2595.5	2143.9	1709.9	1342.7	1045.7	797.9	201.7	24.1	6.6
72.5°	2367.5	2083.6	1805.2	1485.2	1190.3	981.0	762.9	562.3	141.4	19.7	5.5
75°	789.2	769.4	688.3	521.7	438.4	356.2	285.0	219.2	53.7	12.1	5.5
77.5°	131.5	112.9	98.6	94.3	78.9	76.7	66.9	53.7	23.0	7.7	5.5
80°	76.7	70.1	61.4	54.8	48.2	42.7	36.2	30.7	14.2	5.5	6.6
82.5°	57.0	50.4	44.9	39.5	34.0	29.6	25.2	20.8	7.7	5.5	6.6
85°	32.9	28.5	25.2	21.9	17.5	15.3	13.2	11.0	5.5	5.5	5.5
87.5°	6.6	6.6	5.5	5.5	5.5	5.5	5.5	4.4	5.5	5.5	4.4
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):

	125°	135°	145°	155°	165°	175°	180°
0°	117.3	117.3	117.3	117.3	117.3	117.3	117.3
2.5°	105.2	101.9	100.8	100.8	100.8	100.8	100.8
5°	96.5	93.2	91.0	89.9	89.9	89.9	89.9
7.5°	89.9	85.5	83.3	81.1	81.1	80.0	80.0
10°	83.3	78.9	75.6	73.4	72.3	72.3	72.3
12.5°	77.8	73.4	69.1	66.9	66.9	65.8	65.8
15°	73.4	66.9	63.6	61.4	61.4	60.3	60.3
17.5°	68.0	62.5	59.2	57.0	55.9	55.9	55.9
20°	62.5	57.0	53.7	52.6	51.5	51.5	50.4
22.5°	58.1	52.6	49.3	48.2	47.1	47.1	46.0
25°	53.7	48.2	44.9	43.8	42.7	41.7	41.7
27.5°	50.4	44.9	41.7	39.5	38.4	37.3	37.3
30°	47.1	40.6	37.3	35.1	34.0	32.9	32.9
32.5°	43.8	37.3	32.9	30.7	29.6	28.5	28.5
35°	39.5	32.9	28.5	27.4	26.3	25.2	24.1
37.5°	36.2	28.5	25.2	23.0	21.9	20.8	20.8
40°	31.8	25.2	21.9	19.7	17.5	16.4	16.4
42.5°	28.5	21.9	18.6	15.3	14.2	13.2	13.2
45°	25.2	19.7	15.3	12.1	11.0	9.9	9.9
47.5°	21.9	16.4	12.1	9.9	8.8	7.7	7.7
50°	18.6	13.2	8.8	6.6	7.7	6.6	6.6
52.5°	16.4	9.9	6.6	6.6	6.6	6.6	6.6
55°	13.2	7.7	5.5	5.5	6.6	6.6	6.6
57.5°	11.0	5.5	4.4	5.5	5.5	5.5	5.5
60°	7.7	4.4	4.4	5.5	5.5	5.5	5.5
62.5°	6.6	4.4	4.4	4.4	5.5	5.5	5.5
64°	5.5	4.4	4.4	4.4	5.5	5.5	5.5
65°	5.5	4.4	4.4	4.4	5.5	5.5	5.5
67.5°	5.5	4.4	4.4	4.4	5.5	5.5	5.5
70°	4.4	4.4	4.4	4.4	5.5	5.5	5.5
72.5°	4.4	4.4	4.4	4.4	5.5	5.5	5.5
75°	4.4	4.4	4.4	4.4	5.5	5.5	5.5
77.5°	4.4	4.4	4.4	5.5	5.5	5.5	5.5
80°	4.4	4.4	4.4	5.5	5.5	5.5	5.5
82.5°	4.4	4.4	4.4	5.5	5.5	5.5	5.5
85°	4.4	4.4	4.4	5.5	5.5	5.5	5.5
87.5°	4.4	4.4	4.4	5.5	5.5	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)