

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: P181189

Luminaire Tested: **ICM-F05-LED-E1-T2-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181189
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: ICM-F05-LED-E1-T2-HSS-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ HOUSE SIDE SHIELD
Light Source: (35) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5189.2 lumens
Efficiency: N/A
Efficacy: 38.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

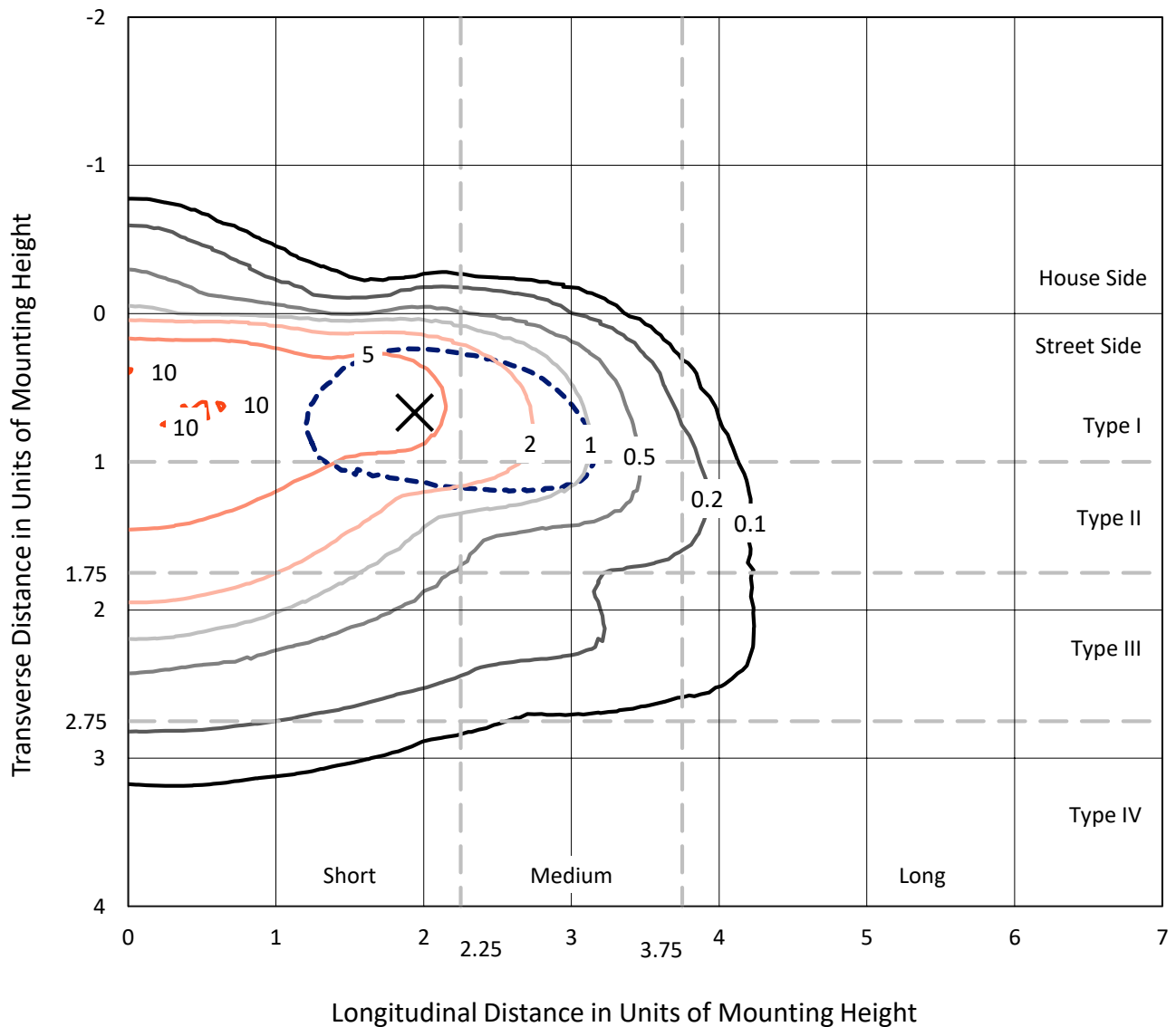
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

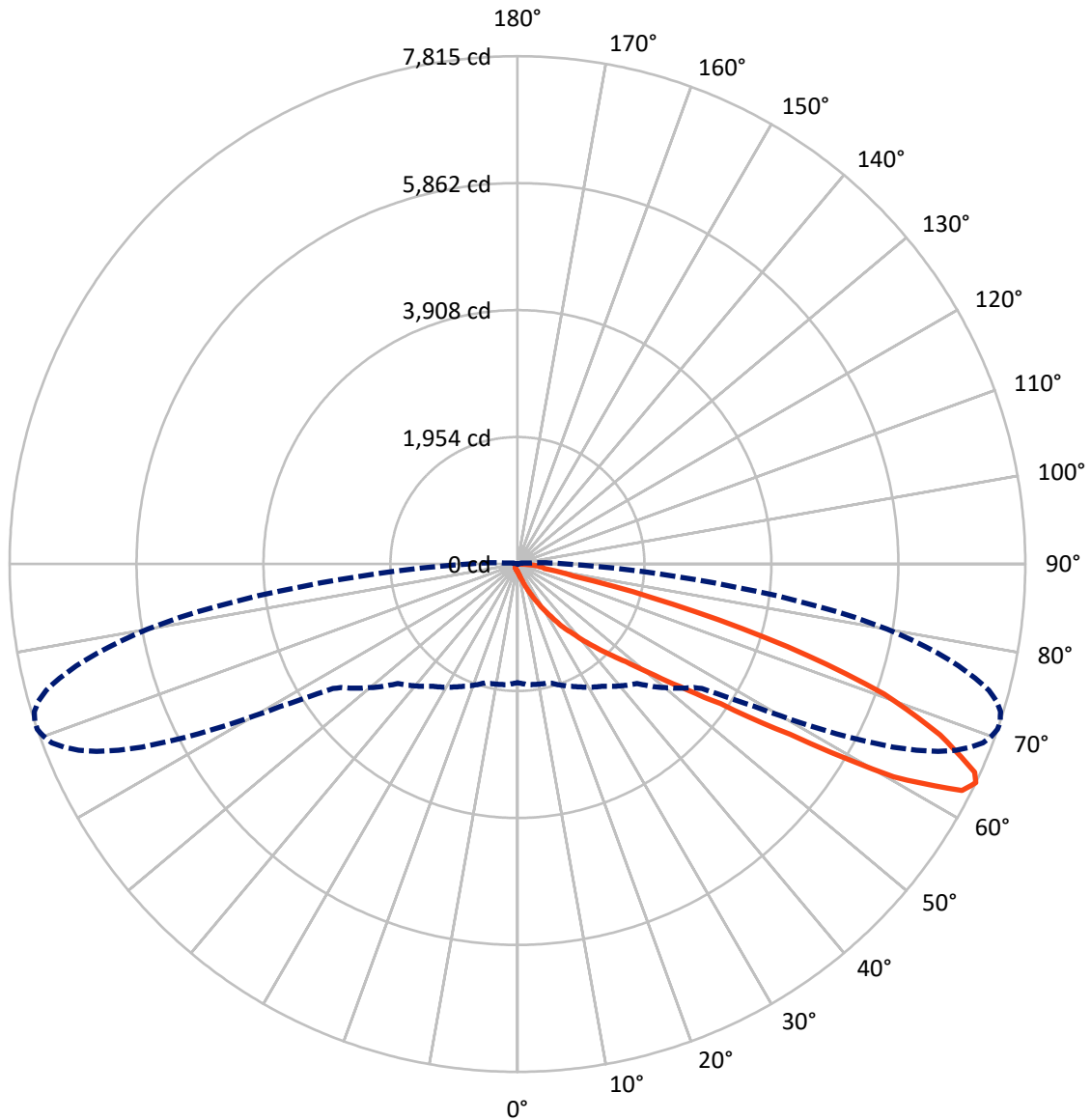
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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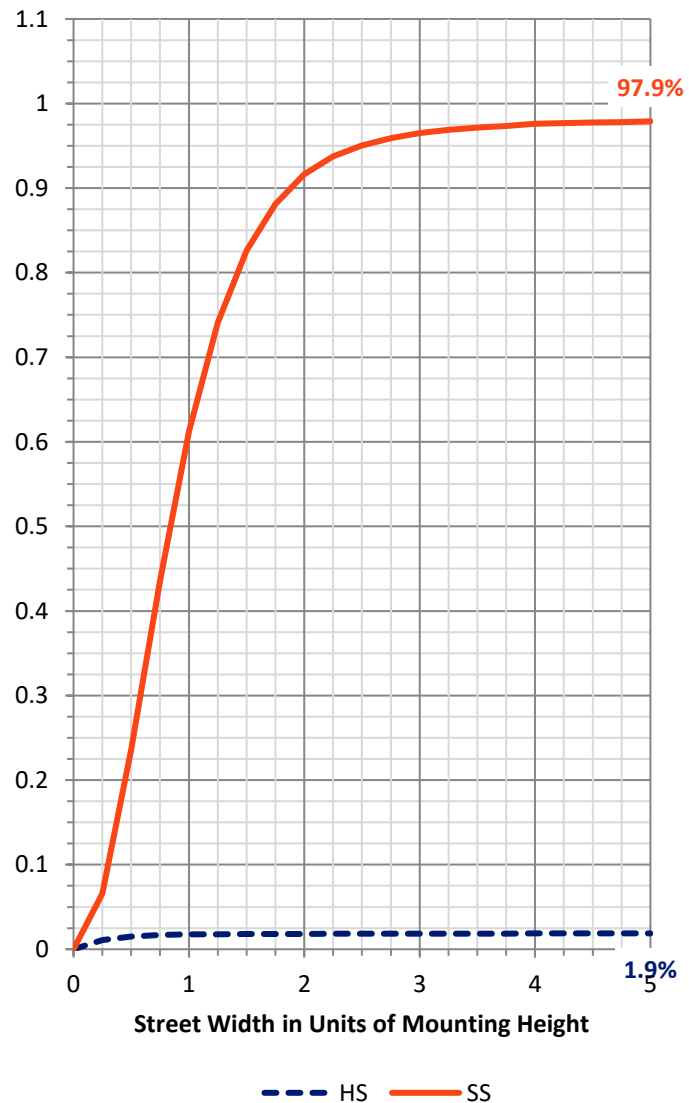
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	99.3	0.0	99.3
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	5089.9	0.0	5089.9
	% Fixture	98.1	0.0	98.1
Total	Lumens	5189.2	0.0	5189.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.9	0.3
10°-20°	93.8	1.8
20°-30°	239.7	4.6
30°-40°	484.7	9.3
40°-50°	886.1	17.1
50°-60°	1380.4	26.6
60°-70°	1534.4	29.6
70°-80°	500.4	9.6
80°-90°	53.8	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°	5189.2	100.0
0°-180°	5189.2	100.0



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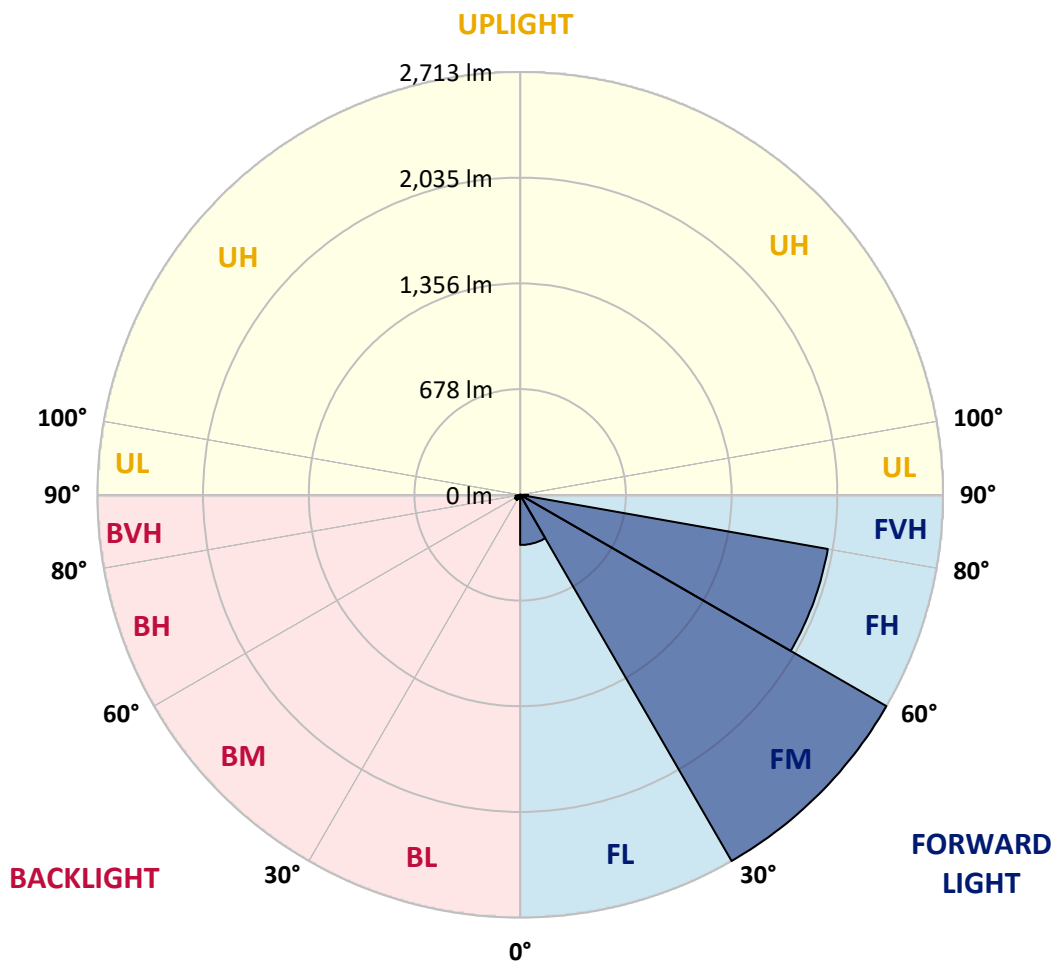
CATALOG NUMBER: ICM-F05-LED-E1-T2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	321.7	6.2			
FM (30°-60°)	2712.8	52.3			
FH (60°-80°)	2004.1	38.6			G2/5000
FVH (80°-90°)	51.2	1.0			G1/100
BL (0°-30°)	27.7	0.5	B0/110		
BM (30°-60°)	38.4	0.7	B0/220		
BH (60°-80°)	30.7	0.6	B0/110		G0/110
BVH (80°-90°)	2.6	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°	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6
2.5°	155.5	153.4	153.4	150.1	145.9	141.5	137.2	136.1	135.1	134.0	134.0
5°	244.1	235.4	232.3	220.4	205.2	186.9	170.7	166.3	166.3	163.1	160.9
7.5°	383.4	379.2	356.5	344.6	308.9	264.7	218.2	213.9	212.8	208.5	202.0
10°	561.7	553.0	536.8	502.3	437.5	360.7	294.9	284.1	276.6	267.9	259.3
12.5°	739.9	729.1	705.4	649.2	584.4	486.1	380.3	370.5	358.6	346.8	332.7
15°	918.1	910.6	873.9	817.7	733.5	615.7	481.8	464.5	454.8	431.0	420.2
17.5°	1072.7	1062.9	1033.8	970.1	882.5	752.9	594.1	572.5	556.3	542.2	516.4
20°	1206.6	1196.8	1168.8	1115.8	1017.6	890.1	715.1	704.3	675.2	653.5	638.4
22.5°	1288.7	1285.5	1267.1	1216.3	1128.8	1015.4	853.4	836.1	816.7	787.4	770.2
25°	1339.5	1336.2	1325.4	1289.8	1230.3	1147.2	1005.7	984.1	966.8	940.8	919.3
27.5°	1392.4	1390.2	1381.6	1350.2	1319.0	1267.1	1160.2	1148.3	1110.4	1095.4	1074.8
30°	1479.9	1470.1	1477.8	1462.6	1422.6	1390.2	1315.7	1298.4	1282.2	1256.3	1238.0
32.5°	1619.3	1603.1	1619.3	1603.1	1585.8	1546.9	1475.5	1470.1	1454.0	1437.8	1411.8
35°	1790.0	1783.5	1796.4	1810.4	1796.4	1744.6	1658.1	1642.0	1635.5	1609.5	1599.8
37.5°	1961.7	1973.6	1997.3	2028.7	2020.0	1982.2	1860.1	1845.0	1833.1	1810.4	1793.1
40°	2146.4	2147.5	2198.2	2243.6	2266.3	2243.6	2082.6	2070.8	2054.6	2022.2	2017.9
42.5°	2347.3	2338.7	2376.5	2427.3	2473.7	2505.0	2376.5	2353.8	2331.1	2294.3	2269.5
45°	2525.5	2525.5	2555.8	2603.4	2674.6	2753.5	2686.5	2662.7	2641.1	2610.9	2582.8
47.5°	2657.3	2658.4	2676.8	2745.9	2857.1	2974.9	2977.0	2981.4	2965.2	2929.5	2930.6
50°	2750.2	2738.3	2763.2	2830.2	2958.7	3143.5	3276.3	3283.8	3296.9	3267.6	3276.3
52.5°	2818.2	2812.9	2829.1	2885.2	3013.8	3239.6	3521.5	3553.9	3573.3	3577.7	3613.3
55°	2782.6	2785.9	2824.8	2905.8	3044.0	3303.3	3730.0	3782.9	3828.3	3867.2	3911.5
57.5°	2664.9	2674.6	2742.7	2869.0	3050.5	3355.2	3951.5	4032.5	4117.8	4221.5	4309.0
60°	2476.9	2499.6	2591.5	2768.6	2987.9	3287.1	4017.3	4141.5	4272.2	4430.0	4606.1
62.5°	2201.5	2205.8	2266.3	2438.1	2680.0	2925.2	3714.9	3873.7	4046.5	4274.4	4520.7
64°	1824.5	1863.4	1891.5	2080.5	2296.6	2602.2	3315.2	3425.3	3666.3	3946.1	4256.0
65°	1505.8	1552.3	1575.0	1764.0	2011.4	2303.0	2967.4	3085.1	3338.9	3623.1	4009.8
67.5°	887.9	856.7	922.5	1033.8	1241.1	1586.8	2001.7	2091.3	2280.3	2618.4	2927.4
70°	572.5	572.5	633.0	746.4	938.7	1203.4	1375.1	1337.3	1377.3	1508.0	1726.2
72.5°	367.3	386.7	423.4	519.5	697.9	1008.9	1405.4	1227.2	1134.2	1091.0	1088.8
75°	167.4	178.2	218.2	275.4	372.7	657.9	1417.2	1339.5	1254.1	1172.0	1108.3
77.5°	35.6	41.0	69.1	142.6	181.5	303.5	1005.7	1122.3	1215.3	1242.2	1242.2
80°	18.3	19.4	29.2	67.0	77.8	102.6	387.8	509.9	628.7	785.3	949.5
82.5°	7.5	8.7	17.3	30.2	32.4	31.3	102.6	129.6	178.2	259.3	386.7
85°	2.1	2.1	7.5	11.9	17.3	14.0	22.7	26.0	33.5	48.7	92.9
87.5°	0.0	0.0	1.1	2.1	3.3	5.4	6.5	6.5	6.5	6.5	6.5
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°	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6
2.5°	132.8	132.8	131.8	130.7	130.7	128.6	128.6	127.4	127.4	126.4	126.4
5°	159.9	157.7	155.5	152.3	151.3	149.0	146.9	144.7	142.6	141.5	139.3
7.5°	198.8	196.6	190.1	185.8	180.4	177.1	172.8	169.6	166.3	164.2	159.9
10°	250.6	243.1	239.8	224.7	221.5	213.9	207.4	203.1	194.4	189.0	183.6
12.5°	324.1	310.0	304.7	278.7	271.2	260.4	252.7	242.0	232.3	225.8	216.0
15°	407.3	396.5	375.9	350.0	335.9	324.1	305.7	297.0	284.1	270.0	256.0
17.5°	506.6	487.2	464.5	431.0	413.7	395.4	378.0	359.7	338.1	325.1	310.0
20°	622.2	601.7	573.6	531.4	511.0	492.6	462.3	449.4	423.4	397.5	378.0
22.5°	748.6	728.1	701.0	653.5	626.5	596.3	571.4	548.7	518.5	492.6	469.9
25°	891.2	867.4	846.9	791.8	758.3	727.0	700.0	660.0	634.1	603.8	572.5
27.5°	1053.2	1025.1	998.1	937.6	906.3	871.7	839.4	797.2	772.4	722.7	693.5
30°	1219.5	1185.0	1156.9	1095.4	1067.3	1031.6	987.4	949.5	907.4	873.9	826.3
32.5°	1394.5	1366.5	1343.8	1279.0	1243.4	1199.1	1159.1	1119.1	1082.3	1028.4	985.1
35°	1581.4	1556.6	1531.7	1475.5	1444.3	1410.8	1365.4	1316.8	1266.1	1209.9	1171.0
37.5°	1778.1	1758.6	1739.2	1671.1	1634.3	1598.7	1546.9	1498.2	1452.8	1393.5	1327.5
40°	1984.4	1966.0	1934.7	1878.5	1839.6	1807.2	1759.6	1714.3	1652.8	1586.8	1528.5
42.5°	2243.6	2203.6	2176.7	2115.1	2074.1	2038.3	1996.2	1928.2	1876.3	1797.5	1741.3
45°	2547.2	2509.3	2465.0	2402.4	2351.6	2293.3	2233.9	2187.5	2122.6	2051.4	1979.0
47.5°	2888.5	2858.3	2806.4	2744.9	2694.1	2635.7	2565.5	2506.1	2427.3	2344.1	2245.8
50°	3264.4	3233.0	3198.5	3129.4	3078.6	3023.6	2968.4	2898.3	2826.9	2727.6	2626.0
52.5°	3613.3	3619.8	3599.3	3566.9	3542.1	3484.8	3434.0	3367.0	3304.4	3213.6	3134.8
55°	3957.9	4014.1	4035.7	4067.0	4077.8	4031.4	4030.3	3932.0	3894.2	3841.2	3795.8
57.5°	4412.7	4536.9	4635.2	4825.3	4905.2	4986.3	5001.4	4932.3	5003.6	4911.8	4943.1
60°	4799.4	5027.3	5271.5	5762.9	6009.2	6195.0	6344.1	6454.3	6525.6	6646.6	6653.1
62.5°	4834.0	5192.6	5564.2	6281.4	6618.5	6900.4	7169.4	7357.3	7506.5	7643.6	7677.1
64°	4668.7	5112.7	5564.2	6431.6	6776.2	7089.4	7334.6	7521.5	7673.8	7759.2	7815.4
65°	4368.4	4865.3	5384.9	6332.2	6687.6	7020.3	7254.7	7442.7	7586.4	7671.7	7730.0
67.5°	3236.3	3717.0	4238.8	5341.7	5901.2	6205.8	6506.2	6769.7	6885.3	6993.3	7013.8
70°	1972.5	2321.4	2681.1	3704.0	4223.7	4771.3	5109.4	5495.1	5765.2	5931.5	5986.5
72.5°	1190.4	1311.4	1526.3	2076.2	2574.2	2958.7	3426.4	3794.8	4097.2	4264.7	4349.0
75°	1059.7	1044.6	1072.7	1301.7	1478.8	1710.0	1879.5	2110.7	2297.6	2355.9	2465.0
77.5°	1224.9	1181.8	1137.5	1094.2	1085.6	1064.0	1029.4	1038.1	956.0	877.1	879.3
80°	1091.0	1194.7	1256.3	1210.9	1108.3	1004.6	877.1	718.3	561.7	464.5	423.4
82.5°	547.6	778.8	1001.4	1221.7	1206.6	1114.8	974.3	800.5	620.0	476.4	380.3
85°	168.6	299.3	421.3	585.5	679.4	666.5	585.5	569.3	406.1	316.5	244.1
87.5°	7.5	7.5	7.5	6.5	7.5	7.5	7.5	8.7	8.7	9.8	9.8
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6
2.5°	126.4	125.3	124.2	123.2	123.2	123.2	122.0	122.0	121.0	121.0	119.9
5°	139.3	137.2	136.1	134.0	134.0	131.8	130.7	129.6	127.4	126.4	125.3
7.5°	156.7	154.5	151.3	148.0	146.9	143.6	140.5	138.2	136.1	134.0	131.8
10°	179.3	175.0	168.6	164.2	160.9	156.7	152.3	149.0	144.7	140.5	138.2
12.5°	208.5	199.8	193.4	185.8	179.3	172.8	165.3	160.9	156.7	150.1	145.9
15°	242.0	233.3	225.8	212.8	202.0	193.4	186.9	177.1	169.6	160.9	154.5
17.5°	299.3	276.6	261.4	248.5	237.7	221.5	208.5	197.7	188.0	177.1	169.6
20°	355.4	335.9	315.4	300.3	276.6	262.5	245.2	230.0	212.8	199.8	186.9
22.5°	437.5	412.7	386.7	364.0	331.6	312.2	289.5	270.0	248.5	226.9	212.8
25°	541.2	504.5	469.9	437.5	407.3	378.0	348.9	317.6	294.9	268.9	245.2
27.5°	650.3	609.2	575.7	533.6	494.7	459.1	422.3	388.8	350.0	316.5	288.4
30°	787.4	731.3	692.4	641.7	602.8	553.0	507.7	463.4	415.9	377.0	337.0
32.5°	926.8	889.0	823.2	779.9	721.6	662.1	614.6	563.9	505.6	454.8	406.1
35°	1110.4	1045.7	990.5	930.1	866.3	804.7	743.2	670.8	611.4	548.7	489.3
37.5°	1272.5	1206.6	1142.9	1064.0	991.6	926.8	852.3	776.7	706.4	631.9	560.7
40°	1460.5	1378.3	1302.7	1229.3	1139.6	1062.9	985.1	891.2	810.1	728.1	643.8
42.5°	1665.7	1582.5	1492.8	1408.6	1310.3	1216.3	1120.2	1026.2	935.4	836.1	737.8
45°	1890.3	1802.9	1702.4	1606.2	1499.4	1395.6	1281.1	1173.1	1066.1	954.9	841.5
47.5°	2169.0	2056.8	1963.8	1843.9	1711.1	1602.0	1461.5	1338.4	1216.3	1086.7	959.3
50°	2529.9	2402.4	2268.5	2135.5	1988.7	1850.4	1694.9	1549.0	1386.0	1241.1	1095.4
52.5°	3008.4	2913.3	2757.8	2605.5	2426.2	2250.1	2036.2	1847.2	1637.6	1452.8	1274.6
55°	3687.8	3625.2	3490.2	3323.8	3167.2	2910.1	2663.8	2370.0	2097.8	1832.0	1581.4
57.5°	4918.3	4850.2	4700.0	4660.0	4419.2	4230.2	3941.7	3561.5	3100.2	2694.1	2288.9
60°	6689.8	6556.9	6410.0	6383.0	6099.9	5901.2	5615.0	5209.9	4775.7	4127.5	3575.6
62.5°	7679.3	7639.3	7520.5	7374.6	7129.4	6834.6	6512.6	6120.5	5679.8	5111.6	4454.8
64°	7812.1	7775.4	7672.8	7508.6	7262.3	6969.5	6613.1	6222.1	5780.2	5261.7	4662.3
65°	7729.0	7677.1	7589.6	7438.4	7209.3	6928.5	6569.9	6173.4	5725.2	5226.1	4668.7
67.5°	7058.2	7034.4	6954.5	6814.0	6670.4	6417.5	6102.2	5747.8	5381.6	4886.9	4430.0
70°	5993.1	5975.8	5874.2	5818.1	5580.4	5420.5	5165.6	4886.9	4562.8	4218.3	3829.3
72.5°	4442.9	4384.6	4302.5	4217.1	4056.2	3837.0	3638.2	3341.1	3173.7	2883.1	2663.8
75°	2355.9	2319.3	2191.7	2013.5	1814.8	1712.1	1505.8	1321.1	1174.2	1108.3	949.5
77.5°	814.5	742.1	670.8	590.9	468.8	369.4	294.9	235.4	185.8	164.2	137.2
80°	406.1	385.7	363.0	317.6	266.8	215.0	168.6	132.8	109.1	92.9	83.2
82.5°	329.5	291.6	260.4	227.9	182.5	150.1	118.8	97.2	79.9	70.2	61.6
85°	194.4	149.0	113.4	102.6	79.9	69.1	59.4	50.8	43.2	41.0	37.8
87.5°	7.5	9.8	9.8	7.5	9.8	8.7	8.7	7.5	7.5	7.5	7.5
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°	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6
2.5°	119.9	118.8	118.8	117.8	116.7	116.7	116.7	115.6	113.4	109.1	105.9
5°	124.2	123.2	122.0	119.9	118.8	117.8	116.7	116.7	111.3	103.7	98.3
7.5°	129.6	127.4	125.3	123.2	122.0	119.9	117.8	116.7	109.1	99.3	94.0
10°	135.1	131.8	128.6	127.4	124.2	122.0	118.8	116.7	108.0	96.1	88.6
12.5°	141.5	137.2	132.8	129.6	125.3	123.2	119.9	116.7	105.9	92.9	84.3
15°	149.0	142.6	137.2	134.0	129.6	124.2	119.9	116.7	103.7	89.7	79.9
17.5°	158.8	151.3	144.7	138.2	131.8	126.4	122.0	117.8	100.5	85.3	74.5
20°	174.0	164.2	153.4	145.9	137.2	130.7	123.2	117.8	98.3	81.0	70.2
22.5°	194.4	179.3	167.4	154.5	143.6	135.1	126.4	119.9	95.1	76.7	64.8
25°	223.6	204.2	184.7	168.6	154.5	142.6	131.8	123.2	92.9	73.5	61.6
27.5°	256.0	233.3	207.4	188.0	168.6	151.3	139.3	128.6	92.9	71.3	58.3
30°	301.4	268.9	237.7	212.8	186.9	167.4	150.1	136.1	92.9	70.2	55.1
32.5°	356.5	319.7	279.8	244.1	213.9	185.8	164.2	145.9	95.1	68.1	52.9
35°	433.2	379.2	331.6	287.4	247.4	215.0	186.9	162.0	98.3	67.0	49.7
37.5°	493.7	428.8	368.4	317.6	271.2	231.2	195.5	168.6	95.1	62.7	46.4
40°	566.0	492.6	419.2	355.4	302.4	250.6	209.6	177.1	92.9	57.2	42.1
42.5°	653.5	561.7	476.4	404.0	338.1	276.6	227.9	188.0	92.9	54.0	38.9
45°	735.6	635.2	540.1	449.4	372.7	304.7	245.2	199.8	91.8	50.8	34.6
47.5°	837.2	718.3	607.1	502.3	413.7	330.5	263.5	210.6	90.7	47.5	31.3
50°	957.0	812.3	687.0	561.7	453.7	361.9	285.2	222.5	88.6	44.3	28.1
52.5°	1090.0	934.4	774.5	629.8	503.4	395.4	305.7	233.3	85.3	41.0	24.8
55°	1325.4	1111.5	922.5	743.2	579.0	445.0	335.9	249.5	82.1	37.8	21.6
57.5°	1890.3	1536.1	1268.2	998.1	762.6	571.4	418.0	296.0	77.8	33.5	17.3
60°	2968.4	2384.0	1929.2	1513.4	1153.7	877.1	615.7	437.5	83.2	28.1	15.2
62.5°	3807.7	3135.8	2556.9	2035.1	1580.4	1201.2	896.6	653.5	119.9	24.8	11.9
64°	4027.1	3346.5	2728.7	2182.1	1708.9	1317.9	1000.3	738.9	154.5	24.8	10.8
65°	4059.5	3411.4	2790.2	2236.0	1753.2	1349.2	1030.5	767.0	168.6	26.0	9.8
67.5°	3925.5	3373.5	2808.6	2258.7	1786.7	1392.4	1071.5	811.3	190.1	24.8	7.5
70°	3428.6	3022.4	2558.0	2112.9	1685.1	1323.3	1030.5	786.4	198.8	23.7	6.5
72.5°	2333.2	2053.5	1779.1	1463.7	1173.1	966.8	751.8	554.1	139.3	19.4	5.4
75°	777.8	758.3	678.3	514.1	432.1	351.1	280.8	216.0	52.9	11.9	5.4
77.5°	129.6	111.3	97.2	92.9	77.8	75.6	65.9	52.9	22.7	7.5	5.4
80°	75.6	69.1	60.5	54.0	47.5	42.1	35.6	30.2	14.0	5.4	6.5
82.5°	56.2	49.7	44.3	38.9	33.5	29.2	24.8	20.6	7.5	5.4	6.5
85°	32.4	28.1	24.8	21.6	17.3	15.2	12.9	10.8	5.4	5.4	5.4
87.5°	6.5	6.5	5.4	5.4	5.4	5.4	5.4	4.3	5.4	5.4	4.3
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):

	125°	135°	145°	155°	165°	175°	180°
0°	115.6	115.6	115.6	115.6	115.6	115.6	115.6
2.5°	103.7	100.5	99.3	99.3	99.3	99.3	99.3
5°	95.1	91.8	89.7	88.6	88.6	88.6	88.6
7.5°	88.6	84.3	82.1	79.9	79.9	78.9	78.9
10°	82.1	77.8	74.5	72.4	71.3	71.3	71.3
12.5°	76.7	72.4	68.1	65.9	65.9	64.8	64.8
15°	72.4	65.9	62.7	60.5	60.5	59.4	59.4
17.5°	67.0	61.6	58.3	56.2	55.1	55.1	55.1
20°	61.6	56.2	52.9	51.8	50.8	50.8	49.7
22.5°	57.2	51.8	48.7	47.5	46.4	46.4	45.4
25°	52.9	47.5	44.3	43.2	42.1	41.0	41.0
27.5°	49.7	44.3	41.0	38.9	37.8	36.7	36.7
30°	46.4	40.0	36.7	34.6	33.5	32.4	32.4
32.5°	43.2	36.7	32.4	30.2	29.2	28.1	28.1
35°	38.9	32.4	28.1	27.0	26.0	24.8	23.7
37.5°	35.6	28.1	24.8	22.7	21.6	20.6	20.6
40°	31.3	24.8	21.6	19.4	17.3	16.2	16.2
42.5°	28.1	21.6	18.3	15.2	14.0	12.9	12.9
45°	24.8	19.4	15.2	11.9	10.8	9.8	9.8
47.5°	21.6	16.2	11.9	9.8	8.7	7.5	7.5
50°	18.3	12.9	8.7	6.5	7.5	6.5	6.5
52.5°	16.2	9.8	6.5	6.5	6.5	6.5	6.5
55°	12.9	7.5	5.4	5.4	6.5	6.5	6.5
57.5°	10.8	5.4	4.3	5.4	5.4	5.4	5.4
60°	7.5	4.3	4.3	5.4	5.4	5.4	5.4
62.5°	6.5	4.3	4.3	4.3	5.4	5.4	5.4
64°	5.4	4.3	4.3	4.3	5.4	5.4	5.4
65°	5.4	4.3	4.3	4.3	5.4	5.4	5.4
67.5°	5.4	4.3	4.3	4.3	5.4	5.4	5.4
70°	4.3	4.3	4.3	4.3	5.4	5.4	5.4
72.5°	4.3	4.3	4.3	4.3	5.4	5.4	5.4
75°	4.3	4.3	4.3	4.3	5.4	5.4	5.4
77.5°	4.3	4.3	4.3	5.4	5.4	5.4	5.4
80°	4.3	4.3	4.3	5.4	5.4	5.4	5.4
82.5°	4.3	4.3	4.3	5.4	5.4	5.4	5.4
85°	4.3	4.3	4.3	5.4	5.4	5.4	5.4
87.5°	4.3	4.3	4.3	5.4	5.4	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)