

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: P180376

Luminaire Tested: **ICM-E03-LED-E1-SL2-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180376
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E03-LED-E1-SL2-HSS-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4318.7 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

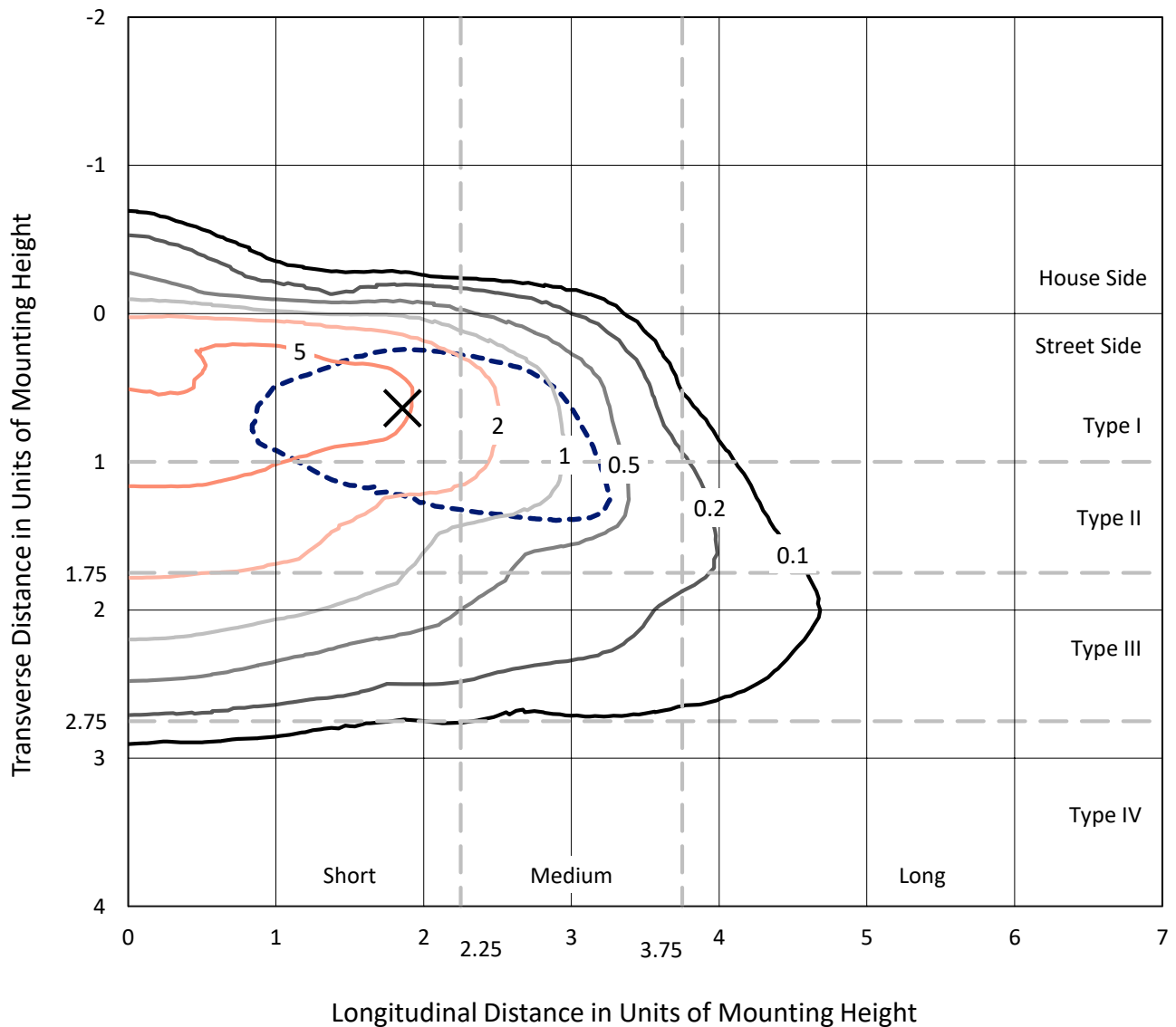
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

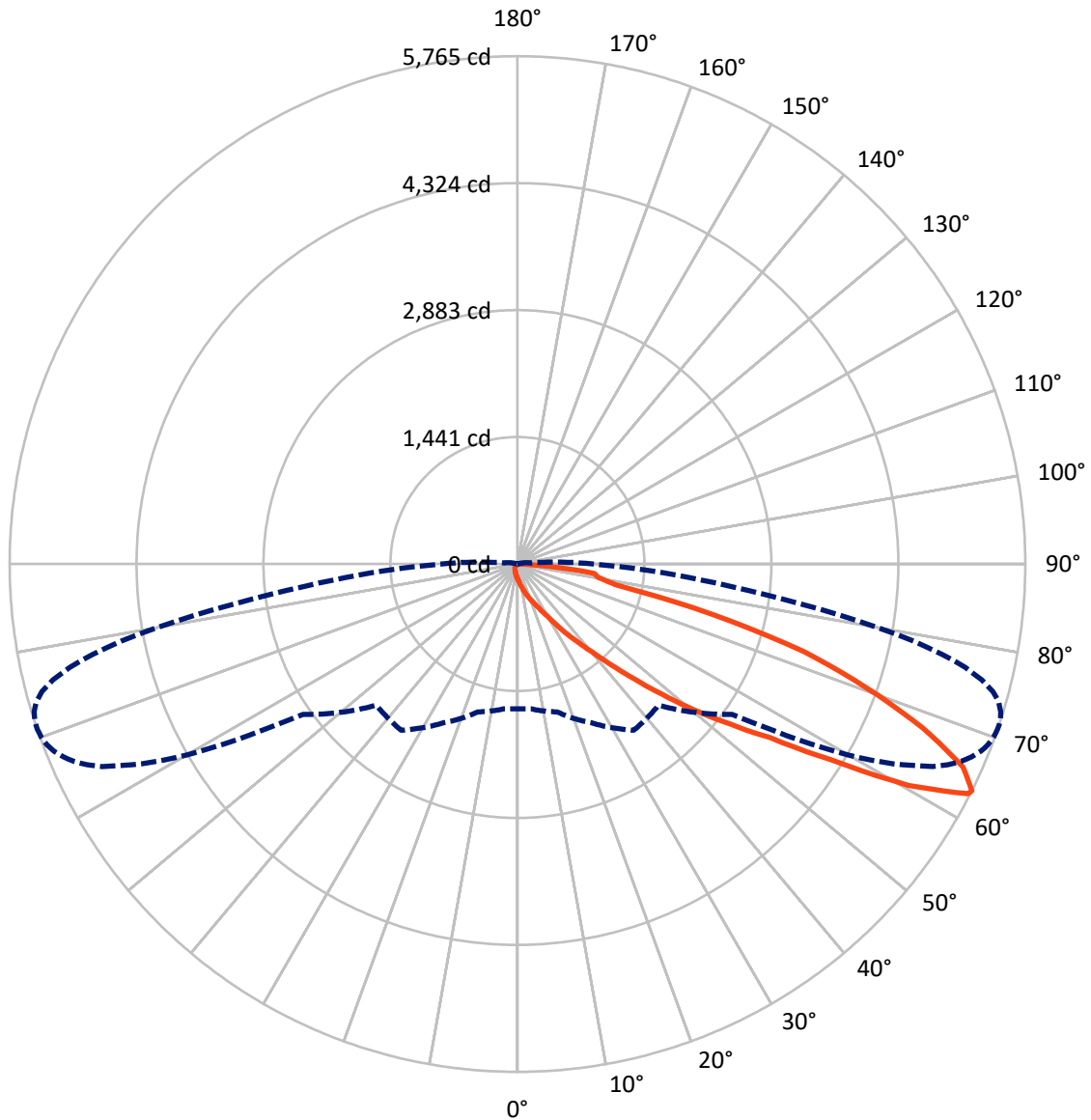
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	91.7	0.0	91.7
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	4227.0	0.0	4227.0
	% Fixture	97.9	0.0	97.9
Total	Lumens	4318.7	0.0	4318.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.3	0.4
10°-20°	71.0	1.6
20°-30°	144.2	3.3
30°-40°	352.4	8.2
40°-50°	788.1	18.2
50°-60°	1108.1	25.7
60°-70°	1303.1	30.2
70°-80°	470.5	10.9
80°-90°	62.9	1.5
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°	4318.7	100.0
0°-180°	4318.7	100.0



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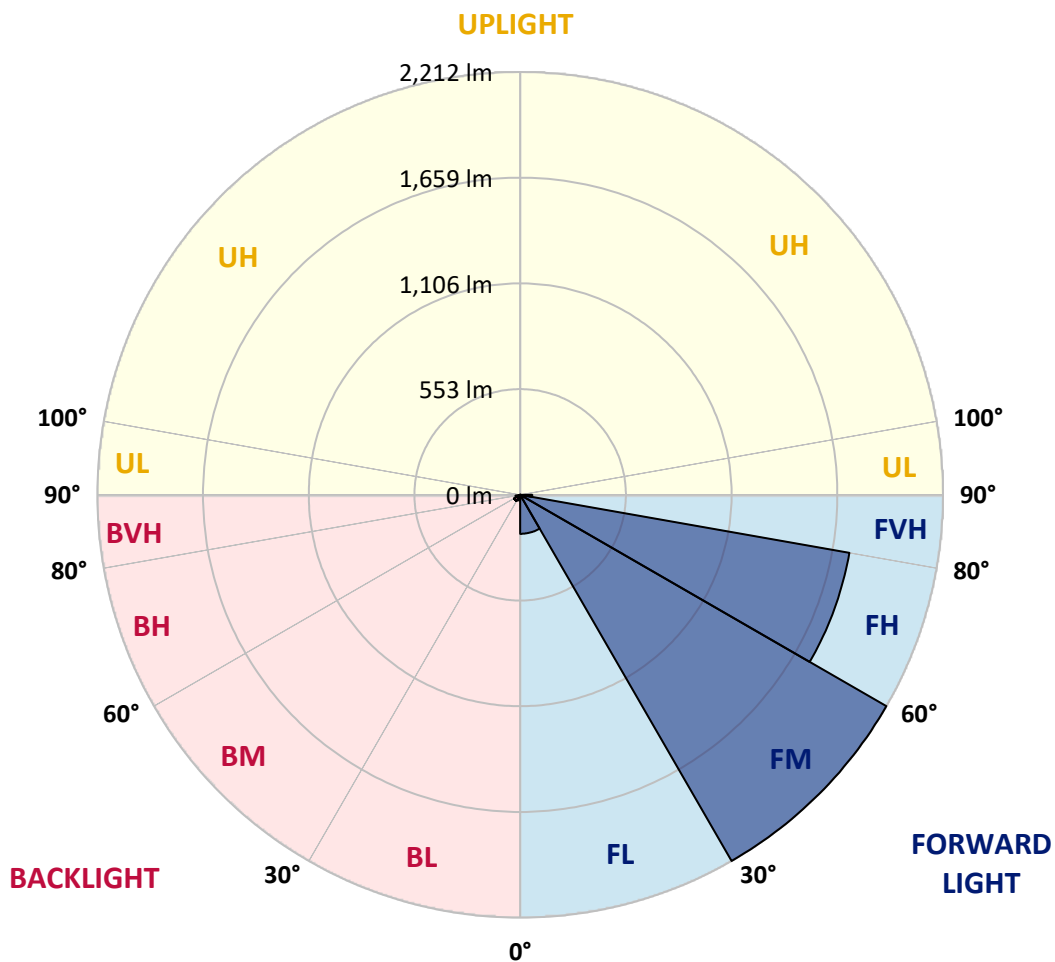
CATALOG NUMBER: ICM-E03-LED-E1-SL2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	204.1	4.7			
FM	(30°-60°)	2211.7	51.2			
FH	(60°-80°)	1748.5	40.5			G1/1800
FVH	(80°-90°)	62.8	1.5			G1/100
BL	(0°-30°)	29.5	0.7	B0/110		
BM	(30°-60°)	36.9	0.9	B0/220		
BH	(60°-80°)	25.1	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	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°	165.7	165.7	165.7	165.7	165.7	165.7	165.7	165.7	165.7	165.7	165.7
2.5°	216.7	219.1	217.5	213.6	208.8	202.5	197.0	197.0	196.3	194.0	194.7
5°	284.2	285.0	281.9	272.5	263.8	250.4	235.5	234.0	232.4	230.0	229.2
7.5°	350.1	353.3	350.1	339.9	322.7	302.2	278.7	276.4	271.6	271.6	268.5
10°	417.7	417.7	414.5	402.8	387.1	358.0	328.2	324.3	318.8	317.2	312.5
12.5°	465.6	465.6	464.0	457.7	445.1	419.3	383.2	379.2	372.2	369.8	364.3
15°	484.4	484.4	485.2	490.7	491.4	479.7	442.0	438.9	431.8	425.5	423.2
17.5°	496.2	495.4	495.4	503.3	517.4	525.2	500.9	497.8	490.0	486.8	478.9
20°	522.1	520.6	515.8	515.8	529.1	556.7	556.7	555.8	547.3	544.8	540.9
22.5°	560.6	559.0	544.8	533.1	539.4	574.0	606.1	604.6	601.4	598.2	595.9
25°	623.4	617.9	593.6	559.0	553.5	590.4	643.8	647.7	650.1	650.1	651.6
27.5°	718.4	711.4	668.1	603.7	579.4	617.1	685.4	693.2	700.3	701.9	708.9
30°	850.2	837.7	775.7	681.5	625.8	656.4	746.6	755.3	765.5	768.7	779.6
32.5°	1067.0	1059.9	1000.2	858.9	739.5	733.3	832.2	843.2	856.6	862.1	875.4
35°	1396.8	1398.2	1349.6	1222.4	1057.6	971.2	985.3	994.7	999.4	1015.9	1023.0
37.5°	1620.5	1624.4	1635.4	1585.1	1467.4	1379.5	1268.8	1279.0	1254.6	1256.9	1257.8
40°	1743.0	1755.5	1819.9	1868.6	1859.2	1808.1	1719.4	1724.8	1679.4	1669.1	1619.7
42.5°	1824.6	1841.1	1943.9	2094.7	2171.6	2218.0	2197.5	2195.2	2159.8	2146.5	2104.9
45°	1875.6	1890.5	2020.1	2242.2	2419.7	2554.7	2610.5	2616.8	2587.0	2573.6	2539.1
47.5°	1873.3	1890.5	2029.5	2297.2	2558.7	2774.6	2931.6	2939.5	2957.5	2945.8	2948.1
50°	1769.7	1786.2	1925.9	2203.8	2517.9	2875.1	3162.4	3187.6	3216.6	3236.2	3245.7
52.5°	1644.0	1655.8	1779.8	2043.6	2343.5	2833.5	3299.0	3342.3	3385.4	3422.3	3448.2
55°	1597.7	1611.1	1708.4	1927.5	2203.8	2659.2	3362.6	3426.3	3487.5	3547.9	3597.4
57.5°	1622.1	1634.6	1704.5	1872.5	2120.6	2475.5	3380.7	3479.6	3580.1	3678.3	3775.7
60°	1711.5	1724.8	1784.6	1923.5	2098.6	2369.5	3310.1	3474.2	3641.3	3812.5	3973.4
62.5°	1676.2	1681.7	1769.7	2013.0	2255.6	2279.2	3053.3	3282.5	3537.7	3801.5	4061.4
63°	1642.4	1648.8	1738.2	1988.7	2303.5	2265.9	2974.0	3215.8	3485.1	3769.3	4051.9
65°	1489.4	1490.1	1558.4	1756.3	2250.2	2289.4	2620.7	2851.6	3160.9	3501.6	3858.8
67.5°	1111.7	1106.2	1172.2	1322.9	1766.5	2290.2	2249.3	2378.9	2594.0	2896.3	3216.6
70°	394.1	385.5	492.3	701.1	1100.8	1873.3	1932.9	1941.6	2001.2	2164.6	2365.5
72.5°	128.0	130.3	157.0	256.7	507.2	1260.8	1750.1	1723.4	1707.6	1706.8	1733.5
75°	51.1	51.8	62.8	113.9	227.7	607.6	1532.6	1547.5	1552.9	1560.8	1569.4
77.5°	24.4	26.7	35.3	63.6	113.0	300.7	1096.8	1223.2	1295.4	1351.2	1384.9
80°	8.7	10.2	19.6	39.3	52.6	138.1	577.9	697.2	803.2	939.8	1057.6
82.5°	0.0	0.0	3.9	27.4	29.0	55.7	237.1	278.0	318.0	412.2	529.1
85°	0.0	0.0	0.0	7.8	8.7	9.4	80.1	96.6	108.4	126.4	146.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.3	4.7	11.8	18.0
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°	165.7	165.7	165.7	165.7	165.7	165.7	165.7	165.7	165.7	165.7	165.7
2.5°	193.1	192.4	192.4	190.8	190.0	188.5	187.6	185.3	184.5	184.5	184.5
5°	228.5	225.3	223.7	219.8	217.5	216.7	212.7	211.2	208.8	209.6	205.7
7.5°	267.7	262.2	259.9	254.4	252.8	247.4	245.8	241.8	239.4	234.8	233.2
10°	310.9	303.8	299.9	291.3	288.9	285.0	280.3	275.5	271.6	267.0	264.6
12.5°	360.4	354.0	351.0	339.2	333.7	328.2	321.9	315.6	309.3	305.4	299.9
15°	418.4	408.3	405.1	394.1	384.7	377.7	369.0	361.1	356.5	348.6	343.1
17.5°	475.8	465.6	463.3	446.7	436.6	431.8	422.4	412.2	403.5	395.7	387.1
20°	533.1	526.0	519.7	504.0	493.0	485.2	472.7	462.4	455.4	444.4	433.4
22.5°	590.4	583.4	578.6	562.1	551.9	540.9	530.0	519.0	508.7	495.4	482.9
25°	649.3	644.6	642.2	627.3	617.9	607.6	596.7	584.1	571.5	556.7	543.3
27.5°	710.5	712.1	707.4	704.3	694.1	687.0	669.7	661.0	651.6	633.6	617.1
30°	788.3	792.9	791.4	793.8	787.4	782.8	769.4	758.4	747.4	730.1	711.4
32.5°	886.4	892.7	895.8	904.5	901.3	899.7	895.8	880.1	872.3	842.4	834.6
35°	1038.0	1034.8	1048.1	1055.2	1052.0	1050.5	1045.8	1037.1	1027.7	1006.5	986.9
37.5°	1235.0	1238.1	1242.8	1228.7	1219.3	1218.5	1204.4	1195.7	1182.4	1158.8	1135.3
40°	1596.1	1576.5	1554.5	1494.9	1468.9	1454.1	1412.4	1400.7	1377.9	1345.7	1321.3
42.5°	2065.6	2046.0	1980.0	1880.4	1827.0	1753.1	1719.4	1677.8	1645.6	1593.0	1564.8
45°	2532.0	2475.5	2467.6	2351.5	2285.5	2188.1	2127.6	2057.8	1984.8	1915.6	1865.4
47.5°	2925.3	2912.8	2874.3	2803.6	2742.4	2660.8	2583.0	2475.5	2400.1	2302.0	2211.6
50°	3240.2	3239.4	3225.2	3184.4	3133.4	3067.5	2999.1	2908.0	2822.4	2702.3	2605.8
52.5°	3475.6	3488.3	3493.0	3480.4	3460.8	3402.7	3368.1	3292.0	3219.7	3117.7	3013.2
55°	3648.4	3694.7	3718.3	3745.0	3739.5	3719.1	3717.5	3668.0	3635.1	3554.2	3480.4
57.5°	3862.0	3938.2	4011.1	4140.7	4145.4	4190.9	4214.4	4238.1	4244.3	4212.1	4187.7
60°	4133.6	4289.0	4427.3	4698.1	4768.8	4880.2	4952.5	5031.0	5097.7	5103.2	5101.7
62.5°	4325.1	4564.7	4787.7	5189.6	5327.0	5455.8	5552.3	5628.5	5674.8	5721.9	5743.8
63°	4330.7	4592.9	4830.0	5244.6	5389.1	5511.5	5603.4	5674.0	5722.6	5750.9	5765.1
65°	4198.0	4515.9	4798.6	5211.6	5347.4	5470.6	5518.5	5564.9	5588.4	5599.4	5557.8
67.5°	3558.2	3869.0	4198.8	4660.4	4776.6	4924.2	4963.5	4987.0	4998.0	4995.7	4960.3
70°	2660.8	2921.4	3288.0	3815.7	3969.5	4114.0	4203.5	4242.0	4254.5	4250.6	4198.0
72.5°	1857.6	2010.7	2312.9	2900.2	3109.8	3295.1	3405.8	3463.1	3474.9	3451.4	3402.7
75°	1560.0	1567.8	1636.2	1957.3	2153.6	2351.5	2476.2	2512.4	2488.9	2417.3	2293.3
77.5°	1392.8	1410.1	1410.1	1458.0	1496.4	1551.4	1563.2	1475.3	1373.1	1241.2	1134.5
80°	1168.3	1228.7	1271.1	1306.4	1310.3	1299.4	1270.3	1220.8	1142.3	1041.9	930.3
82.5°	709.8	829.1	877.8	1059.9	1149.4	1209.9	1205.1	1139.2	1079.5	975.1	880.1
85°	179.0	193.1	209.6	272.5	305.4	372.9	415.4	435.0	442.0	405.9	367.4
87.5°	17.3	11.8	19.6	14.9	21.2	15.7	21.2	19.6	24.4	26.0	28.3
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	165.7	165.7	165.7	165.7	165.7	165.7	165.7	165.7	165.7	165.7	165.7
2.5°	182.9	182.1	181.4	180.6	179.8	179.0	177.4	177.4	175.9	175.1	174.3
5°	203.4	201.8	201.0	199.4	197.0	195.5	193.1	190.0	187.6	186.9	185.3
7.5°	229.2	225.3	223.7	221.4	218.2	213.6	210.4	208.1	204.1	201.8	197.0
10°	258.3	254.4	249.7	244.9	240.3	234.8	230.8	227.7	221.4	218.2	212.7
12.5°	295.2	288.1	282.6	276.4	270.0	263.8	259.1	249.7	244.2	237.1	232.4
15°	332.9	326.6	320.3	312.5	303.1	292.8	288.1	279.5	272.5	261.4	255.2
17.5°	378.4	366.6	357.2	347.8	339.2	329.8	320.3	307.0	296.7	287.4	274.8
20°	423.2	409.0	398.8	386.2	373.7	358.8	347.8	338.4	324.3	311.7	298.3
22.5°	471.1	456.9	440.5	427.9	410.6	398.8	383.9	368.2	354.0	337.6	321.1
25°	529.1	514.2	495.4	478.9	459.3	442.8	424.7	406.7	389.4	370.6	349.4
27.5°	600.7	584.9	564.5	544.8	519.0	498.5	481.3	456.9	435.0	411.4	387.1
30°	690.9	673.6	648.5	620.3	594.3	571.5	547.3	515.1	490.7	462.4	431.1
32.5°	808.7	788.3	754.5	727.8	695.6	665.8	632.0	599.8	565.3	528.4	492.3
35°	957.0	938.2	899.0	859.7	824.4	789.0	746.6	709.8	661.0	616.3	570.0
37.5°	1110.9	1077.2	1041.0	998.7	954.7	912.3	860.5	809.5	753.7	705.0	646.9
40°	1286.8	1246.0	1216.1	1170.6	1108.6	1048.1	1000.2	936.7	866.8	801.6	733.3
42.5°	1527.8	1482.3	1428.9	1359.8	1315.1	1244.4	1182.4	1107.0	1015.2	942.1	859.7
45°	1806.5	1744.5	1692.7	1626.0	1571.8	1483.8	1411.6	1311.2	1219.3	1123.5	1023.0
47.5°	2124.5	2047.5	1972.2	1906.2	1819.9	1733.5	1641.7	1534.9	1417.1	1311.9	1192.6
50°	2489.6	2380.5	2276.0	2191.3	2072.7	1972.9	1873.3	1753.1	1622.8	1502.0	1366.1
52.5°	2895.5	2769.1	2630.9	2500.6	2363.2	2235.2	2115.1	1976.9	1831.6	1684.1	1532.6
55°	3385.4	3290.4	3127.9	2962.3	2778.5	2607.4	2452.7	2281.5	2104.9	1911.0	1751.5
57.5°	4152.5	4106.2	3970.3	3804.7	3565.2	3357.1	3094.9	2885.3	2629.3	2362.4	2156.7
60°	5191.9	5134.6	5058.4	4924.2	4734.3	4451.6	4162.6	3836.9	3447.5	3077.6	2726.7
62.5°	5746.3	5725.8	5663.8	5571.2	5393.7	5170.7	4879.5	4521.4	4081.8	3632.7	3185.2
63°	5762.7	5736.8	5683.5	5589.2	5433.0	5217.1	4931.3	4583.5	4153.2	3695.6	3238.6
65°	5539.8	5529.5	5475.4	5372.5	5265.7	5100.9	4879.5	4580.3	4219.2	3786.6	3332.0
67.5°	4913.2	4882.6	4799.4	4768.0	4693.4	4578.8	4410.0	4204.3	3946.0	3606.1	3213.5
70°	4155.6	4110.1	4005.6	3949.9	3858.8	3786.6	3683.7	3537.0	3377.5	3140.5	2847.6
72.5°	3352.4	3258.3	3162.4	3017.2	2890.0	2761.2	2647.4	2543.7	2368.7	2272.9	2050.7
75°	2177.1	2006.0	1841.9	1622.1	1424.2	1249.1	1078.7	992.4	812.6	739.5	635.2
77.5°	1033.2	937.4	808.7	708.9	581.8	475.0	387.8	291.3	228.5	179.0	136.7
80°	833.8	752.9	675.2	584.9	489.1	390.2	299.2	223.7	158.6	110.0	77.8
82.5°	743.5	655.5	559.8	497.8	432.6	354.0	290.5	237.1	175.1	128.0	87.2
85°	288.9	243.4	187.6	153.1	119.3	98.1	88.7	61.2	47.9	37.7	29.0
87.5°	25.1	20.4	16.5	11.0	11.8	6.3	7.1	4.7	3.9	3.9	3.2
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	165.7	165.7	165.7	165.7	165.7	165.7	165.7	165.7	165.7	165.7	165.7
2.5°	173.5	172.7	171.9	170.3	170.3	168.8	168.0	167.3	163.3	154.7	147.6
5°	182.1	180.6	179.0	176.7	175.1	172.7	171.2	168.8	160.2	143.7	129.6
7.5°	194.7	191.5	189.2	184.5	182.1	179.0	176.7	172.7	158.6	133.5	113.9
10°	209.6	204.1	200.2	194.7	190.0	186.0	182.1	176.7	157.0	122.5	99.7
12.5°	227.7	221.4	213.6	207.3	201.0	195.5	190.0	182.9	154.7	113.0	88.7
15°	245.8	236.3	230.8	222.1	213.6	205.7	197.9	191.5	155.4	102.9	79.3
17.5°	266.1	256.7	244.9	235.5	226.1	215.9	206.5	194.0	151.5	95.0	72.2
20°	285.8	272.5	261.4	249.7	236.3	223.7	212.0	201.0	148.4	87.2	66.0
22.5°	307.0	291.3	277.1	262.2	245.8	231.6	217.5	203.4	142.9	80.1	60.5
25°	332.9	314.8	294.4	276.4	259.1	241.8	223.7	206.5	137.4	73.8	56.6
27.5°	364.3	340.7	320.3	297.6	273.2	251.3	231.6	212.7	131.9	69.1	52.6
30°	404.4	376.8	347.8	318.8	292.8	267.7	240.3	216.7	126.4	64.4	48.7
32.5°	457.7	423.2	387.8	354.0	319.5	287.4	258.3	227.7	123.3	60.5	44.7
35°	528.4	483.6	440.5	398.0	356.5	317.2	279.5	244.9	123.3	55.7	40.0
37.5°	595.1	543.3	488.4	435.7	386.2	340.7	296.0	254.4	117.0	51.8	36.1
40°	667.4	605.3	540.9	478.9	419.3	362.7	311.7	263.8	111.4	47.1	32.2
42.5°	778.1	699.5	615.5	543.3	471.8	402.0	338.4	281.9	104.5	42.4	28.3
45°	923.3	823.5	724.7	636.7	545.7	460.1	384.7	314.8	102.9	38.5	24.4
47.5°	1078.7	960.9	844.7	732.5	625.8	526.0	435.7	351.7	102.9	34.5	21.2
50°	1233.4	1085.8	961.8	831.4	711.4	593.6	486.0	390.2	103.6	31.4	17.3
52.5°	1373.1	1215.4	1076.4	925.7	792.9	656.4	539.4	427.9	102.0	27.4	14.1
55°	1567.1	1381.8	1220.8	1054.4	899.0	745.0	612.4	484.4	102.9	24.4	11.8
57.5°	1924.3	1706.8	1512.9	1294.6	1115.6	917.0	756.1	600.7	112.3	20.4	8.7
60°	2436.9	2154.3	1881.9	1615.7	1388.1	1151.7	942.9	760.0	131.9	16.5	6.3
62.5°	2781.7	2411.8	2086.8	1793.2	1528.7	1281.3	1053.6	845.6	145.2	13.3	3.9
63°	2816.9	2434.6	2108.0	1804.9	1534.9	1287.5	1058.3	851.8	146.0	12.6	3.9
65°	2883.7	2473.9	2119.8	1807.4	1528.7	1279.0	1055.2	851.1	147.6	10.2	3.2
67.5°	2807.6	2413.4	2051.5	1739.8	1473.7	1227.9	1015.9	819.6	146.8	7.1	2.3
70°	2510.8	2184.2	1866.2	1575.7	1333.9	1111.7	924.8	747.4	135.1	4.7	1.6
72.5°	1843.5	1621.2	1374.7	1165.1	1004.9	834.6	712.1	561.4	104.5	3.2	0.7
75°	546.4	497.8	418.4	369.0	325.9	269.3	239.4	186.9	53.4	1.6	0.0
77.5°	109.1	98.9	88.7	80.8	76.2	65.2	62.0	51.1	22.0	0.7	0.0
80°	57.3	47.1	40.0	35.3	30.6	25.1	21.2	17.3	3.9	0.0	0.0
82.5°	55.0	36.9	26.7	22.0	18.9	14.9	11.8	8.7	2.3	0.0	0.0
85°	20.4	15.7	11.8	9.4	7.8	7.1	5.5	4.7	0.0	0.0	0.0
87.5°	3.2	2.3	2.3	1.6	1.6	0.7	0.7	0.7	0.0	0.0	0.0
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°	165.7	165.7	165.7	165.7	165.7	165.7	165.7
2.5°	140.6	134.2	131.1	127.2	127.2	126.4	128.0
5°	117.0	108.4	102.0	97.4	98.1	95.8	96.6
7.5°	98.9	90.3	84.8	81.7	80.8	80.1	80.1
10°	85.6	77.8	73.0	70.7	69.9	69.9	69.9
12.5°	76.2	68.3	64.4	62.8	62.8	62.0	62.0
15°	68.3	62.0	58.1	56.6	56.6	55.7	56.6
17.5°	62.0	55.7	52.6	51.1	51.1	50.2	50.2
20°	56.6	51.1	47.9	45.6	45.6	44.7	45.6
22.5°	51.8	46.3	42.4	40.8	40.0	39.3	40.0
25°	47.1	41.6	37.7	35.3	34.5	34.5	33.8
27.5°	43.2	37.7	32.9	30.6	29.9	29.9	29.0
30°	39.3	32.9	28.3	26.0	25.1	25.1	25.1
32.5°	35.3	28.3	24.4	22.0	21.2	21.2	21.2
35°	31.4	24.4	20.4	18.0	17.3	17.3	17.3
37.5°	26.7	20.4	15.7	14.1	13.3	12.6	12.6
40°	22.8	15.7	11.8	10.2	8.7	8.7	8.7
42.5°	18.9	12.6	8.7	6.3	5.5	4.7	5.5
45°	15.7	9.4	5.5	3.2	2.3	2.3	2.3
47.5°	12.6	6.3	2.3	0.7	0.7	0.7	0.7
50°	9.4	3.9	0.7	0.0	0.0	0.7	0.7
52.5°	7.1	2.3	0.0	0.0	0.0	0.0	0.0
55°	3.9	0.7	0.0	0.0	0.0	0.0	0.0
57.5°	2.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)