

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: P180471

Luminaire Tested: **ICM-F02-LED-E1-SL2-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180471
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F02-LED-E1-SL2-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3960.2 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

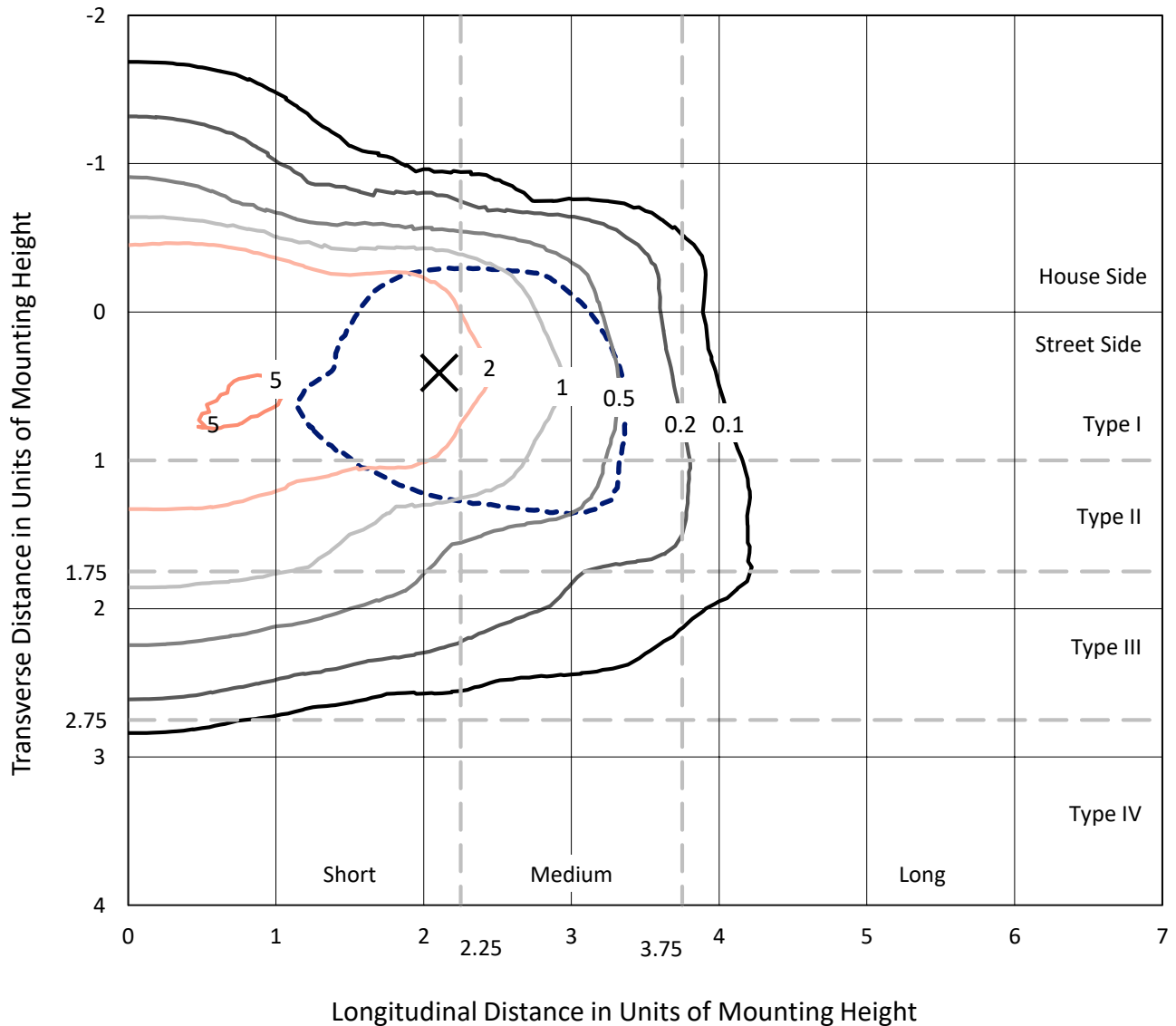
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

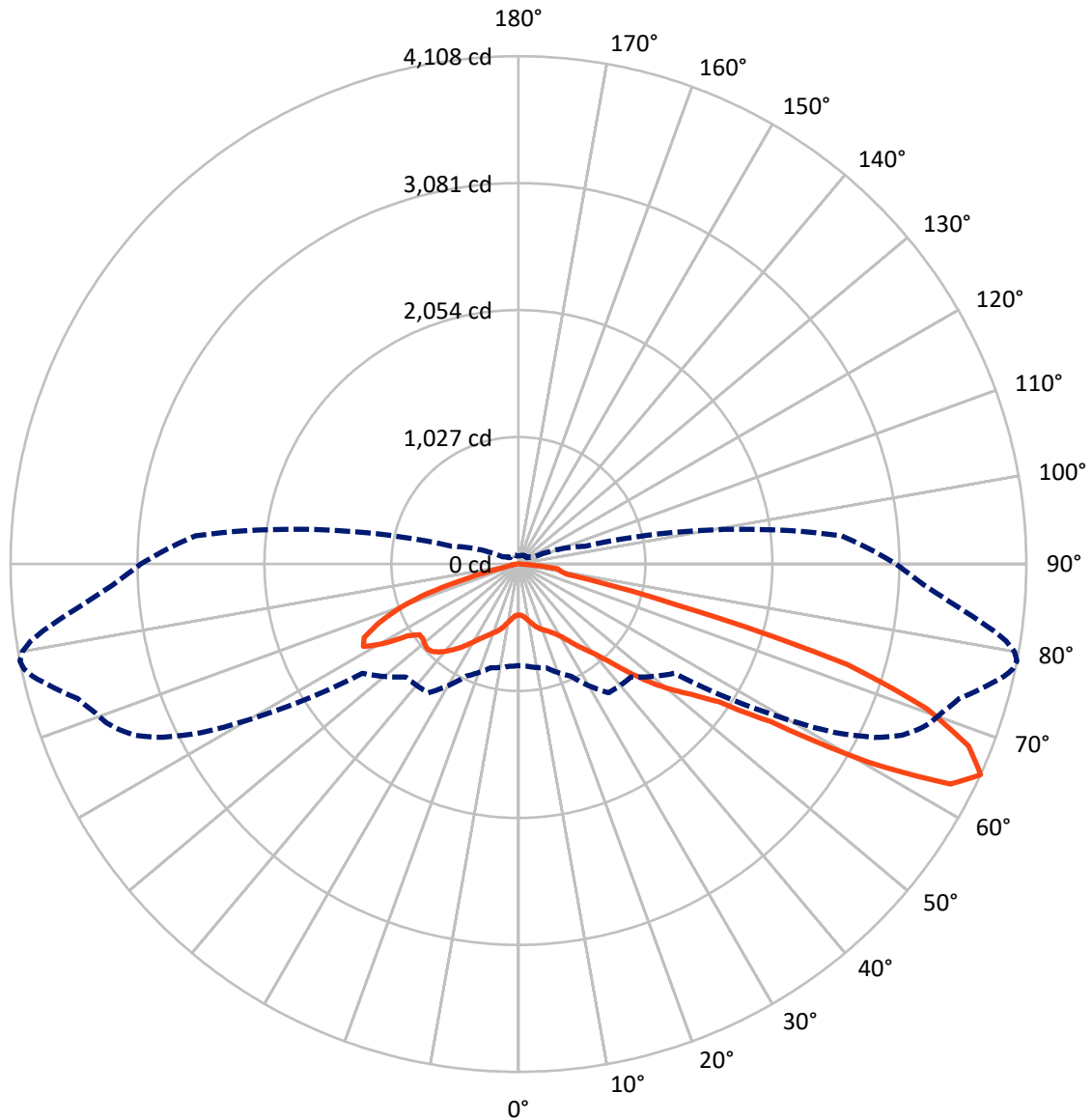
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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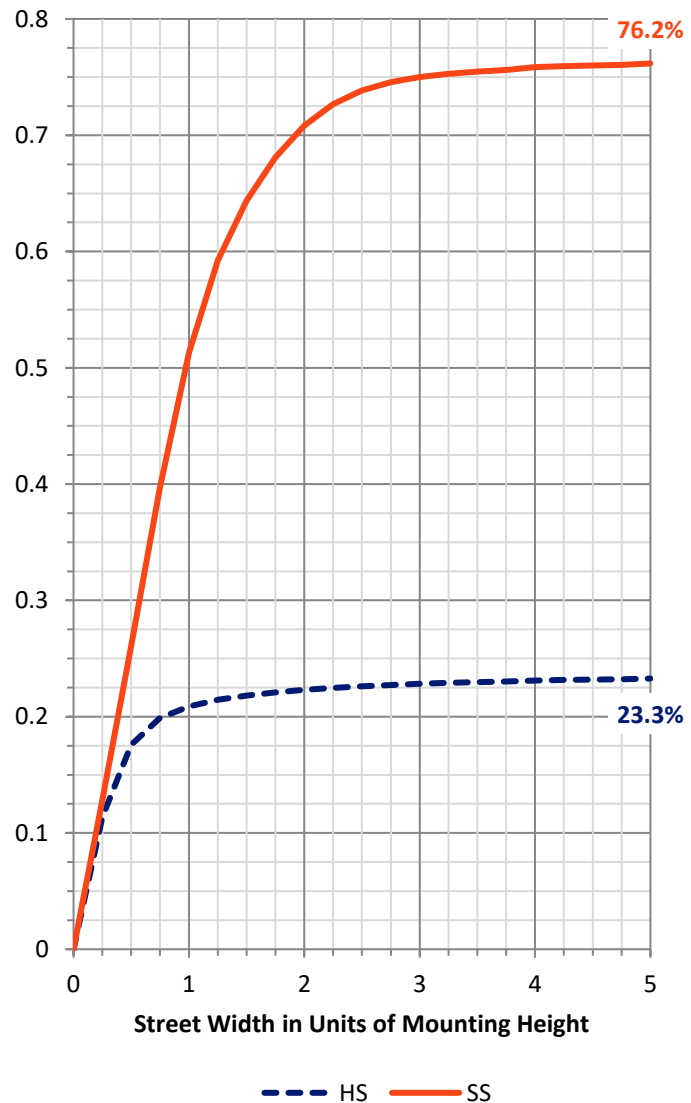
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	936.2	0.0	936.2
	% Fixture	23.6	0.0	23.6
Street Side	Lumens	3024.0	0.0	3024.0
	% Fixture	76.4	0.0	76.4
Total	Lumens	3960.2	0.0	3960.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.0	1.0
10°-20°	134.0	3.4
20°-30°	231.4	5.8
30°-40°	383.1	9.7
40°-50°	649.7	16.4
50°-60°	863.2	21.8
60°-70°	1115.1	28.2
70°-80°	467.7	11.8
80°-90°	75.1	1.9
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°	3960.2	100.0
0°-180°	3960.2	100.0



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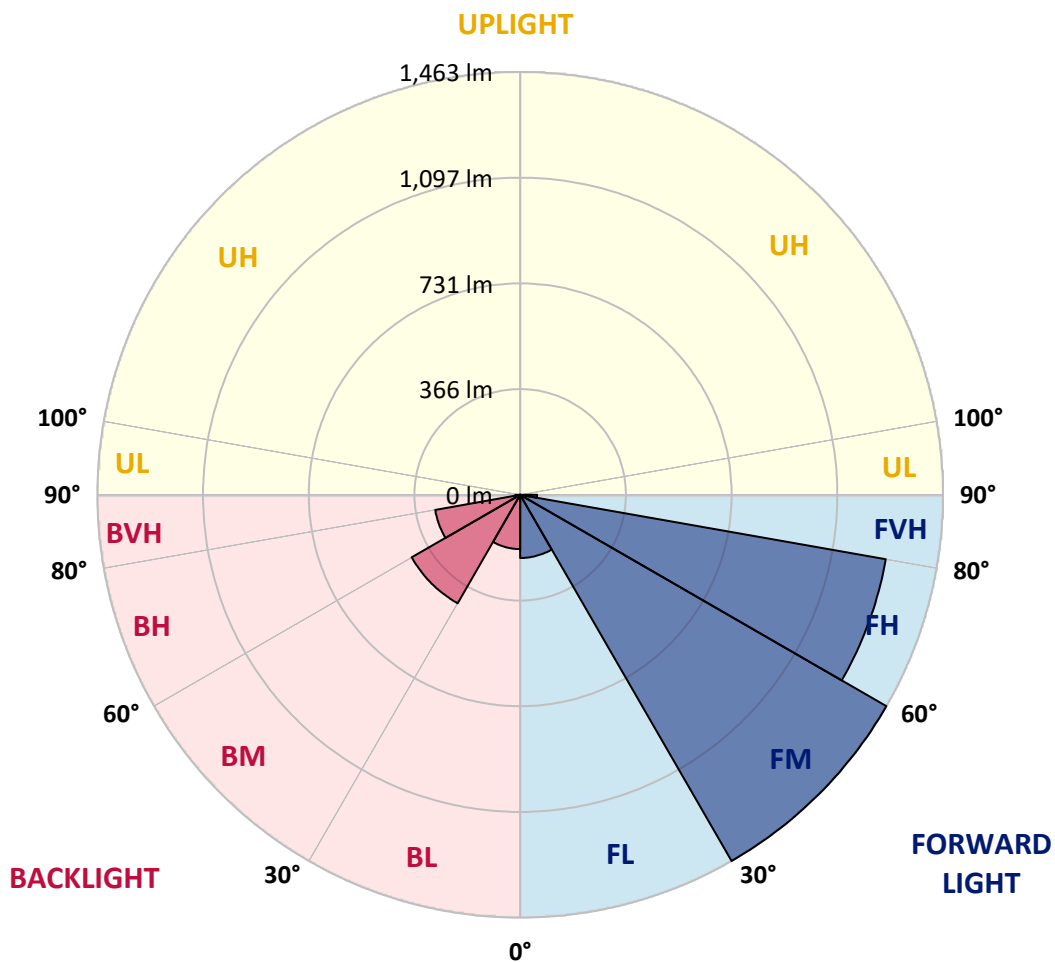
CATALOG NUMBER: ICM-F02-LED-E1-SL2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	218.5	5.5			
FM	(30°-60°)	1462.6	36.9			
FH	(60°-80°)	1284.1	32.4			G1/1800
FVH	(80°-90°)	58.7	1.5			G1/100
BL	(0°-30°)	187.9	4.7	B1/500		
BM	(30°-60°)	433.4	10.9	B1/1000		
BH	(60°-80°)	298.6	7.5	B1/500		G1/500
BVH	(80°-90°)	16.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	412.2	412.2	412.2	412.2	412.2	412.2	412.2	412.2	412.2	412.2	412.2
2.5°	410.9	412.2	411.4	412.2	413.1	413.5	414.3	414.0	414.0	414.3	413.5
5°	410.9	410.9	412.2	414.3	415.3	417.9	420.8	420.4	420.8	420.4	421.3
7.5°	419.5	419.2	420.4	423.0	423.9	427.7	432.9	433.8	434.7	434.7	436.0
10°	434.7	434.2	435.5	436.8	438.1	441.1	448.5	451.5	452.0	452.4	454.1
12.5°	453.7	453.3	451.5	451.5	451.1	456.7	466.6	472.3	473.1	474.9	476.2
15°	467.1	465.8	463.2	461.5	463.6	472.7	487.4	493.9	494.7	496.0	499.5
17.5°	480.0	478.8	473.1	468.8	471.8	486.5	506.4	513.3	515.1	516.4	520.2
20°	498.2	497.3	489.1	478.8	477.9	496.9	521.1	530.1	531.4	533.2	537.1
22.5°	525.9	522.0	512.5	493.0	483.5	503.0	531.4	544.0	545.8	547.4	552.7
25°	560.4	558.7	542.2	512.5	492.6	509.0	542.7	558.2	560.8	563.0	570.0
27.5°	596.3	593.7	576.0	537.1	508.6	521.1	560.4	578.1	581.6	585.0	591.5
30°	628.3	627.4	612.7	570.3	534.5	544.0	588.9	610.5	614.4	618.8	624.8
32.5°	703.4	703.9	688.7	645.5	597.1	585.5	630.0	662.4	664.1	669.3	680.1
35°	847.4	849.0	843.4	809.3	754.9	706.9	711.3	743.2	744.9	749.2	759.6
37.5°	943.6	947.2	964.4	975.3	947.5	925.5	870.6	858.1	859.4	856.8	854.7
40°	996.8	1002.1	1047.4	1103.5	1133.8	1134.2	1110.4	1055.2	1034.0	1027.9	1002.1
42.5°	1027.1	1035.7	1100.1	1196.0	1282.9	1342.5	1357.2	1295.8	1280.3	1252.7	1202.9
45°	1047.0	1057.3	1133.4	1264.8	1392.7	1494.1	1570.6	1543.5	1533.0	1516.2	1470.4
47.5°	1043.4	1051.7	1130.8	1288.0	1450.1	1594.4	1730.1	1758.2	1745.6	1741.3	1710.2
50°	980.4	987.7	1068.1	1230.1	1418.5	1632.4	1831.2	1910.7	1910.7	1918.9	1909.4
52.5°	913.0	919.1	992.1	1137.7	1316.6	1595.3	1887.4	2019.2	2036.4	2050.7	2073.1
55°	887.5	894.9	950.1	1074.6	1229.7	1488.9	1906.3	2100.4	2132.4	2156.6	2207.5
57.5°	899.6	907.0	946.2	1040.5	1178.7	1380.5	1907.3	2209.7	2271.5	2321.1	2424.5
60°	951.9	958.8	991.6	1072.0	1165.3	1317.9	1870.5	2383.8	2482.3	2575.6	2747.6
62.5°	927.7	936.4	984.3	1124.3	1265.1	1270.3	1737.9	2518.6	2677.2	2815.1	3088.6
65°	821.9	830.9	868.5	999.4	1271.2	1291.1	1541.2	2521.2	2718.2	2904.5	3199.6
67.5°	623.9	627.4	657.2	762.2	1016.7	1314.0	1339.1	2222.6	2410.2	2618.0	2922.6
70°	318.9	324.9	333.6	420.8	654.6	1085.9	1150.6	1638.1	1876.9	2091.7	2457.7
72.5°	110.6	112.7	121.4	160.7	318.9	712.5	1007.2	1122.5	1266.9	1467.8	1891.6
75°	66.5	66.5	69.6	81.2	145.6	371.2	896.2	916.8	936.4	1003.7	1281.1
77.5°	52.7	53.6	53.6	55.7	80.8	190.5	680.6	852.5	855.1	861.6	908.3
80°	37.6	39.3	42.8	44.5	52.3	104.6	382.0	748.4	799.4	824.0	858.1
82.5°	28.1	29.8	36.3	38.4	40.7	58.3	171.5	516.4	609.2	658.5	778.6
85°	12.6	14.7	24.7	27.3	28.6	31.1	80.4	146.9	168.9	189.7	250.1
87.5°	2.1	2.1	3.9	5.6	8.2	7.8	17.7	25.0	25.5	29.8	33.3
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	412.2	412.2	412.2	412.2	412.2	412.2	412.2	412.2	412.2	412.2	412.2
2.5°	413.5	413.5	413.5	413.1	413.5	413.5	413.5	413.5	414.0	414.0	414.0
5°	422.6	421.7	422.1	422.1	422.1	421.7	422.6	422.1	422.6	423.9	423.4
7.5°	436.0	436.8	437.3	437.7	437.7	437.7	438.1	439.0	439.0	440.3	439.9
10°	455.8	455.4	455.8	457.1	458.4	458.9	460.2	459.7	460.6	462.3	464.1
12.5°	477.0	477.9	479.2	480.5	482.6	483.1	484.4	484.8	487.4	487.4	489.1
15°	500.7	501.2	503.8	504.3	506.8	507.7	509.9	510.7	513.8	514.1	515.9
17.5°	522.4	523.3	524.6	525.9	528.8	530.1	531.9	533.6	536.2	537.1	540.1
20°	539.6	541.4	541.9	544.5	547.0	548.7	550.5	552.2	554.8	556.1	559.2
22.5°	555.3	556.9	558.2	560.4	562.1	564.7	565.6	568.7	571.3	573.4	576.0
25°	572.1	574.7	576.0	579.8	581.1	583.7	585.9	588.9	592.4	595.0	598.4
27.5°	595.8	599.7	601.5	605.8	608.8	610.1	613.6	617.9	620.9	623.9	627.4
30°	628.7	636.0	637.3	640.4	646.0	646.8	651.2	654.6	659.4	662.4	665.4
32.5°	679.6	688.7	689.6	693.0	697.9	699.5	703.0	706.9	714.2	715.5	720.3
35°	757.9	761.8	765.2	766.5	770.4	772.6	775.2	779.4	786.8	786.0	791.2
37.5°	851.6	852.9	853.4	849.0	850.0	846.1	850.8	851.6	854.2	856.4	861.6
40°	985.6	972.2	970.4	960.1	949.7	944.1	942.0	933.3	935.4	936.4	940.7
42.5°	1181.3	1155.4	1133.8	1119.1	1093.6	1081.1	1064.2	1050.8	1040.5	1044.4	1046.1
45°	1429.3	1392.2	1357.6	1312.7	1279.4	1255.6	1225.9	1199.1	1187.0	1181.3	1188.2
47.5°	1676.9	1644.1	1603.5	1557.2	1504.6	1465.2	1415.5	1371.9	1341.6	1330.4	1336.5
50°	1890.8	1860.6	1829.9	1802.7	1741.3	1698.5	1630.7	1574.1	1526.5	1502.3	1495.9
52.5°	2068.4	2052.4	2036.0	2013.1	1963.8	1921.0	1867.1	1811.3	1748.2	1699.0	1682.1
55°	2227.0	2236.5	2228.3	2228.7	2209.2	2182.1	2136.2	2094.7	2050.7	1995.0	1971.6
57.5°	2458.2	2514.3	2525.5	2553.6	2567.5	2582.2	2595.1	2570.5	2559.3	2517.8	2518.2
60°	2822.4	2904.5	2975.7	3040.6	3093.8	3145.6	3200.0	3224.2	3251.0	3263.6	3306.3
62.5°	3210.0	3288.2	3394.4	3481.3	3530.2	3597.5	3656.8	3695.2	3742.3	3792.4	3857.7
65°	3305.9	3400.1	3467.1	3525.0	3573.3	3609.2	3641.6	3687.5	3726.7	3806.3	3883.2
67.5°	3060.0	3135.2	3196.6	3253.6	3291.2	3321.4	3350.4	3380.7	3448.0	3520.2	3597.5
70°	2626.6	2717.4	2818.9	2892.9	2911.4	2937.3	2964.9	3004.3	3038.0	3113.6	3172.4
72.5°	2110.3	2240.8	2326.8	2429.2	2451.3	2490.5	2506.1	2536.8	2542.8	2583.9	2599.5
75°	1470.8	1620.3	1706.7	1782.0	1796.7	1775.0	1783.6	1675.2	1647.5	1625.0	1606.9
77.5°	970.9	1011.1	1024.9	1012.8	954.9	909.6	861.1	813.6	818.8	780.4	712.9
80°	863.4	872.4	859.8	847.7	814.5	767.0	723.4	678.8	656.7	633.4	598.9
82.5°	840.0	875.0	878.9	864.2	837.8	786.0	733.2	667.2	611.0	559.2	506.4
85°	280.8	341.8	369.0	394.5	402.2	411.4	380.3	337.9	286.9	252.7	197.9
87.5°	35.9	44.5	51.4	44.1	51.4	60.5	43.6	48.8	49.3	30.7	22.9
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	412.2	412.2	412.2	412.2	412.2	412.2	412.2	412.2	412.2	412.2	412.2
2.5°	414.3	414.0	414.0	414.0	413.5	414.0	414.0	414.0	414.0	414.0	413.5
5°	423.9	423.9	425.2	425.6	424.7	424.3	424.7	425.2	425.2	424.7	425.2
7.5°	441.6	442.0	442.9	444.2	443.4	443.7	444.2	443.7	445.0	445.5	445.0
10°	464.1	464.9	467.1	467.5	467.1	468.8	469.2	468.4	469.2	469.2	471.0
12.5°	490.0	490.9	493.4	494.3	495.2	495.6	496.9	497.3	498.6	499.5	500.7
15°	518.0	519.0	520.7	523.7	524.6	525.4	526.2	528.8	529.3	531.1	532.4
17.5°	541.9	543.2	545.8	547.9	549.2	551.4	552.2	555.3	556.1	558.7	560.8
20°	560.8	563.0	565.2	567.7	570.0	572.5	573.4	576.4	578.1	579.4	582.1
22.5°	578.1	580.7	583.7	586.8	588.5	592.0	593.2	594.5	598.4	600.2	602.8
25°	600.6	603.2	606.6	610.5	612.3	616.6	617.9	620.0	624.4	626.1	630.0
27.5°	631.3	634.7	637.3	641.2	643.4	646.4	649.4	652.0	655.9	658.5	662.8
30°	669.8	672.3	676.7	679.6	683.2	687.4	690.9	693.5	695.6	699.5	704.3
32.5°	726.3	726.8	728.1	735.4	738.9	742.3	747.1	749.2	752.7	756.6	761.8
35°	796.7	800.7	803.7	807.2	811.0	814.9	816.7	823.2	826.1	831.4	836.6
37.5°	866.8	867.2	874.1	876.3	879.7	883.6	889.7	896.2	903.9	909.1	917.3
40°	942.0	945.4	954.1	958.3	962.7	972.2	976.9	987.4	1000.3	1007.6	1021.5
42.5°	1050.8	1056.0	1071.5	1078.5	1088.8	1104.4	1114.3	1128.6	1133.8	1151.5	1158.0
45°	1193.4	1209.4	1231.9	1246.6	1265.1	1282.0	1290.6	1297.1	1304.9	1318.7	1317.0
47.5°	1347.6	1368.4	1393.5	1423.7	1435.8	1455.7	1466.9	1479.5	1472.6	1469.1	1465.7
50°	1505.8	1530.1	1563.3	1590.5	1609.1	1621.2	1630.7	1628.9	1614.2	1606.5	1584.9
52.5°	1681.7	1695.9	1727.5	1750.8	1762.1	1764.7	1762.5	1749.5	1735.7	1711.1	1685.6
55°	1951.3	1944.8	1957.3	1968.2	1964.7	1976.8	1945.7	1933.6	1899.5	1867.5	1833.3
57.5°	2499.2	2507.8	2437.9	2406.2	2400.7	2411.9	2357.0	2350.2	2267.5	2257.2	2199.7
60°	3300.3	3342.6	3287.7	3257.0	3174.1	3146.9	3085.5	3060.0	2980.9	2917.0	2836.2
62.5°	3902.6	3941.0	3963.9	3920.3	3871.9	3800.7	3707.7	3604.9	3521.0	3423.0	3337.4
65°	3957.0	4034.8	4087.6	4107.8	4073.7	3995.5	3881.0	3751.4	3623.1	3499.9	3391.8
67.5°	3702.5	3772.1	3853.8	3926.8	3931.1	3880.1	3782.4	3650.7	3502.5	3350.4	3223.8
70°	3265.3	3352.6	3423.8	3500.8	3554.3	3525.0	3476.1	3355.2	3201.3	3082.9	2937.3
72.5°	2655.6	2692.3	2709.6	2785.2	2786.1	2732.5	2698.0	2631.0	2507.0	2423.2	2312.1
75°	1550.8	1470.0	1384.0	1309.2	1248.3	1222.8	1109.6	1090.6	1014.5	967.4	898.3
77.5°	639.4	567.4	474.4	397.1	320.7	286.0	235.9	213.9	185.4	172.8	164.7
80°	548.3	480.0	410.0	343.1	283.4	223.8	174.1	135.3	106.3	90.3	83.8
82.5°	447.6	406.6	357.8	321.5	274.8	230.3	194.4	150.8	112.7	83.0	63.5
85°	161.6	132.7	106.7	98.0	78.2	64.4	54.0	46.2	38.0	30.2	26.8
87.5°	18.1	17.3	10.0	9.5	10.8	7.8	9.1	8.2	6.9	6.0	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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	412.2	412.2	412.2	412.2	412.2	412.2	412.2	412.2	412.2	412.2	412.2
2.5°	413.5	413.5	414.0	414.0	414.3	414.8	415.6	415.3	415.3	415.6	415.6
5°	425.2	426.5	426.0	426.0	426.0	426.5	426.9	425.2	423.4	421.7	420.8
7.5°	445.5	446.3	447.2	446.3	447.2	446.8	446.0	441.1	435.5	428.7	423.9
10°	471.8	471.8	472.7	472.3	474.0	472.7	470.1	459.4	447.2	432.6	421.7
12.5°	500.4	503.4	502.0	502.5	506.0	502.5	496.5	480.5	458.9	435.1	416.1
15°	534.0	535.4	536.2	534.9	537.1	534.0	523.3	497.8	466.2	432.9	404.8
17.5°	561.7	562.1	562.6	563.4	566.4	563.0	544.5	509.9	467.9	423.0	385.9
20°	583.4	585.5	587.2	587.2	591.5	586.3	561.7	515.9	462.3	406.6	361.7
22.5°	605.8	607.5	609.7	610.1	615.7	610.5	576.0	514.6	447.6	383.3	333.6
25°	633.4	635.2	636.9	639.1	646.8	639.4	590.2	509.4	427.4	355.6	303.4
27.5°	665.4	669.3	670.6	674.1	683.2	671.9	602.3	501.7	404.8	323.6	271.4
30°	708.2	712.9	714.7	719.4	731.9	707.4	609.2	488.3	376.4	291.3	237.2
32.5°	765.7	772.1	777.3	782.5	796.7	742.8	610.1	468.8	343.1	254.9	204.4
35°	840.8	850.8	854.7	858.1	871.5	781.2	606.2	439.9	302.4	217.8	178.4
37.5°	925.1	935.1	937.6	939.4	942.0	814.1	596.7	395.8	256.7	185.4	157.7
40°	1028.8	1037.4	1040.9	1038.3	1024.5	839.5	575.5	344.4	212.2	163.3	144.7
42.5°	1155.4	1168.4	1169.7	1158.0	1112.2	853.8	533.2	283.9	177.1	147.3	134.8
45°	1312.3	1311.4	1304.0	1295.8	1207.7	848.2	474.0	231.2	155.2	134.8	125.8
47.5°	1453.1	1438.4	1427.2	1403.0	1291.9	815.4	397.5	191.4	141.8	125.3	118.0
50°	1568.5	1541.7	1518.0	1491.5	1354.6	757.0	321.5	162.4	129.2	117.1	110.6
52.5°	1659.6	1627.3	1599.5	1573.7	1415.1	692.2	263.5	141.3	117.1	108.9	102.4
55°	1802.2	1769.9	1725.8	1697.2	1507.5	632.6	226.0	124.5	105.4	100.3	93.8
57.5°	2163.0	2134.5	2081.8	2007.9	1745.2	610.1	204.8	111.4	95.9	92.9	87.7
60°	2793.0	2746.8	2678.1	2602.9	2228.3	625.2	188.0	102.4	89.4	86.9	83.0
62.5°	3268.3	3187.1	3109.3	3039.7	2614.5	624.8	166.0	95.5	84.7	83.3	79.5
65°	3287.7	3205.2	3127.0	3054.0	2623.2	556.1	140.0	89.4	83.8	83.3	76.9
67.5°	3113.2	3023.7	2948.1	2856.1	2428.3	434.7	112.4	85.6	87.3	86.4	76.1
70°	2828.0	2711.4	2649.1	2558.3	2137.1	304.2	92.5	86.9	94.6	92.0	77.3
72.5°	2219.6	2131.5	2036.8	1973.8	1673.0	192.3	77.8	87.7	97.7	93.3	80.8
75°	826.1	850.0	811.0	797.2	850.0	112.7	69.1	81.7	87.3	80.8	73.5
77.5°	166.8	159.4	151.3	149.5	193.1	69.6	63.5	70.9	67.0	59.2	59.6
80°	79.9	77.8	75.2	74.8	71.7	57.9	58.8	60.5	50.5	45.8	48.8
82.5°	53.1	50.1	49.3	47.5	48.4	51.8	55.7	51.8	38.9	36.3	44.1
85°	24.7	23.7	23.3	23.3	26.0	46.7	46.2	38.0	26.8	26.0	44.1
87.5°	6.0	6.0	6.5	6.0	6.9	13.9	12.1	11.6	10.0	11.3	20.7
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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	165°	175°	180°
0°	412.2	412.2	412.2
2.5°	415.3	415.6	415.3
5°	419.2	419.2	419.2
7.5°	419.2	417.9	417.4
10°	413.1	409.2	409.2
12.5°	402.7	396.2	395.4
15°	383.3	374.6	373.3
17.5°	358.6	347.0	344.8
20°	331.0	316.3	313.7
22.5°	300.7	283.9	282.6
25°	270.9	253.7	250.1
27.5°	237.7	220.8	219.1
30°	204.4	189.7	188.8
32.5°	176.3	167.3	165.5
35°	156.4	151.3	149.0
37.5°	143.4	139.5	139.2
40°	133.5	130.0	129.6
42.5°	125.3	122.3	121.9
45°	117.1	114.5	113.7
47.5°	108.9	106.3	105.9
50°	101.6	98.0	97.7
52.5°	94.6	91.2	90.3
55°	88.2	84.7	84.7
57.5°	82.5	79.1	78.6
60°	77.3	73.9	73.5
62.5°	73.5	69.1	68.7
65°	70.4	66.1	65.2
67.5°	68.7	63.5	62.2
70°	71.7	62.2	60.1
72.5°	72.2	60.9	57.9
75°	69.6	57.5	55.3
77.5°	60.9	51.4	49.3
80°	52.7	39.7	36.7
82.5°	50.1	32.4	28.1
85°	38.9	21.2	19.9
87.5°	22.0	11.6	9.5
90°	0.0	0.0	0.0

(END OF REPORT)