

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: P180473

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180473
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
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4692.2 lumens
Efficiency: N/A
Efficacy: 85.3 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

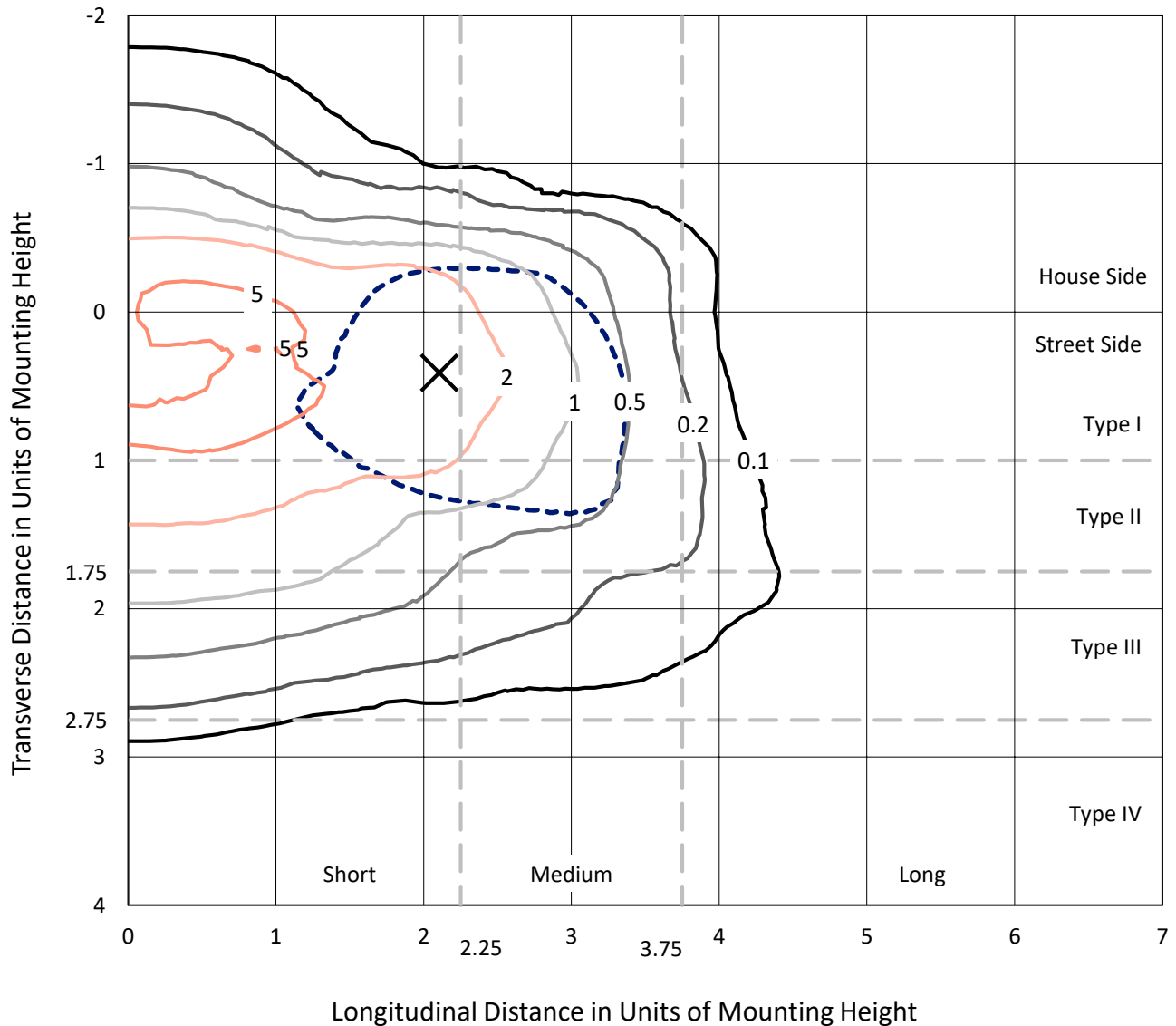
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

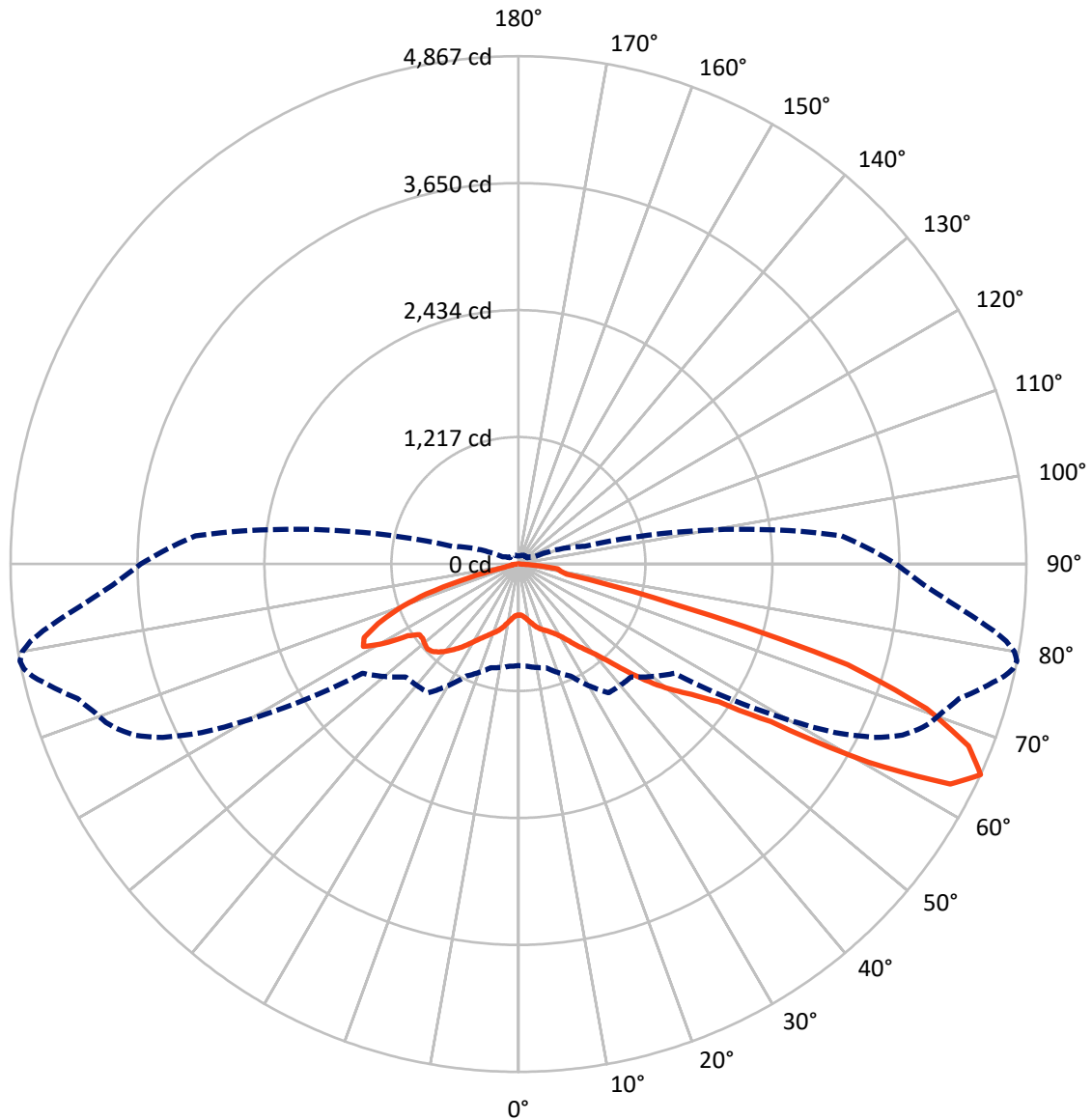
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 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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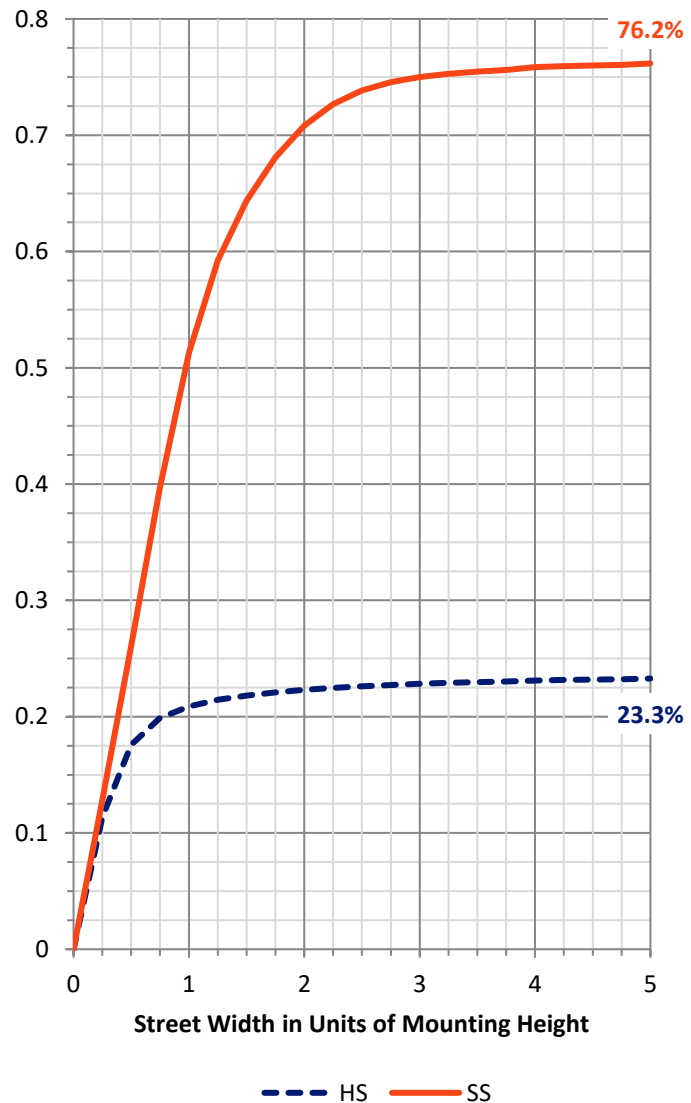
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1109.2	0.0	1109.2
	% Fixture	23.6	0.0	23.6
Street Side	Lumens	3583.0	0.0	3583.0
	% Fixture	76.4	0.0	76.4
Total	Lumens	4692.2	0.0	4692.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	1.0
10°-20°	158.8	3.4
20°-30°	274.2	5.8
30°-40°	453.9	9.7
40°-50°	769.8	16.4
50°-60°	1022.8	21.8
60°-70°	1321.2	28.2
70°-80°	554.1	11.8
80°-90°	89.0	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°	4692.2	100.0
0°-180°	4692.2	100.0



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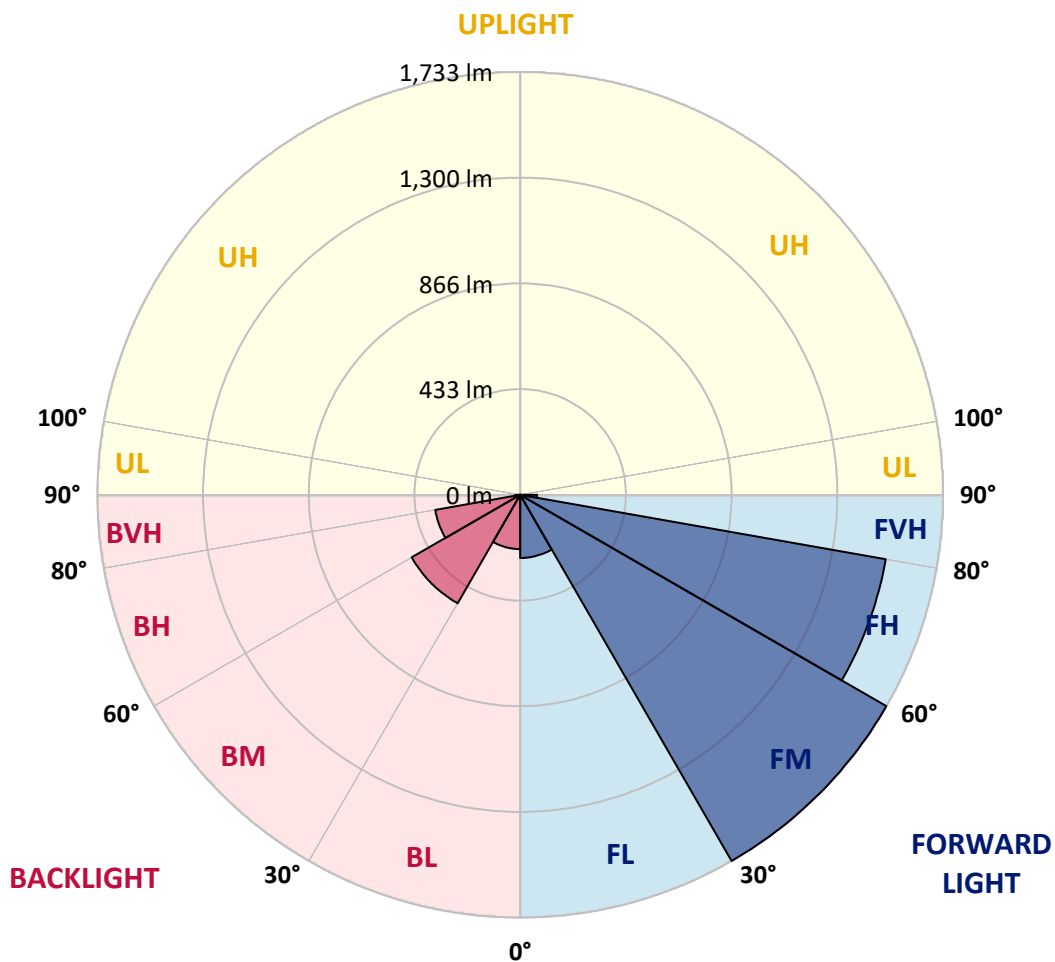
CATALOG NUMBER: ICM-F02-LED-E1-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	258.9	5.5			
FM	(30°-60°)	1733.0	36.9			
FH	(60°-80°)	1521.5	32.4			G1/1800
FVH	(80°-90°)	69.6	1.5			G1/100
BL	(0°-30°)	222.6	4.7	B1/500		
BM	(30°-60°)	513.5	10.9	B1/1000		
BH	(60°-80°)	353.8	7.5	B1/500		G1/500
BVH	(80°-90°)	19.4	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°	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4
2.5°	486.9	488.4	487.4	488.4	489.4	490.0	491.0	490.4	490.4	491.0	490.0
5°	486.9	486.9	488.4	491.0	492.0	495.1	498.6	498.1	498.6	498.1	499.2
7.5°	497.1	496.6	498.1	501.2	502.2	506.8	513.0	514.0	515.1	515.1	516.6
10°	515.1	514.5	516.1	517.6	519.2	522.7	531.4	535.0	535.5	536.0	538.0
12.5°	537.6	537.0	535.0	535.0	534.5	541.1	552.9	559.5	560.6	562.6	564.2
15°	553.4	551.9	548.8	546.8	549.3	560.1	577.5	585.1	586.2	587.7	591.8
17.5°	568.7	567.3	560.6	555.4	559.1	576.5	600.0	608.2	610.2	611.8	616.4
20°	590.3	589.3	579.5	567.3	566.2	588.7	617.4	628.2	629.7	631.7	636.4
22.5°	623.1	618.4	607.2	584.1	572.8	595.9	629.7	644.6	646.6	648.7	654.8
25°	664.0	662.0	642.5	607.2	583.6	603.1	643.0	661.5	664.6	667.1	675.3
27.5°	706.5	703.4	682.4	636.4	602.6	617.4	664.0	685.0	689.1	693.2	700.8
30°	744.4	743.4	726.0	675.8	633.3	644.6	697.8	723.4	728.0	733.1	740.3
32.5°	833.5	834.0	816.1	764.8	707.5	693.7	746.4	784.8	786.9	793.0	805.9
35°	1003.9	1006.0	999.4	958.9	894.4	837.6	842.7	880.6	882.6	887.7	900.0
37.5°	1118.1	1122.2	1142.7	1155.4	1122.7	1096.6	1031.6	1016.8	1018.2	1015.2	1012.7
40°	1181.1	1187.3	1240.9	1307.5	1343.4	1343.9	1315.7	1250.2	1225.1	1218.0	1187.3
42.5°	1216.9	1227.2	1303.4	1417.1	1520.0	1590.6	1608.0	1535.4	1516.9	1484.2	1425.3
45°	1240.5	1252.8	1342.9	1498.5	1650.1	1770.3	1860.9	1828.8	1816.4	1796.5	1742.2
47.5°	1236.4	1246.1	1339.8	1526.1	1718.2	1889.1	2049.9	2083.2	2068.3	2063.2	2026.3
50°	1161.6	1170.3	1265.6	1457.5	1680.8	1934.2	2169.7	2263.8	2263.8	2273.6	2262.3
52.5°	1081.8	1088.9	1175.4	1348.0	1559.9	1890.2	2236.2	2392.4	2412.9	2429.8	2456.4
55°	1051.5	1060.3	1125.8	1273.2	1457.0	1764.2	2258.7	2488.7	2526.5	2555.2	2615.6
57.5°	1065.9	1074.6	1121.2	1232.8	1396.7	1635.7	2259.7	2618.2	2691.4	2750.2	2872.6
60°	1127.8	1136.0	1175.0	1270.1	1380.8	1561.5	2216.3	2824.5	2941.2	3051.7	3255.6
62.5°	1099.2	1109.4	1166.2	1332.1	1499.0	1505.1	2059.1	2984.2	3172.1	3335.4	3659.5
65°	973.8	984.5	1029.0	1184.2	1506.1	1529.7	1826.2	2987.3	3220.8	3441.4	3791.0
67.5°	739.3	743.4	778.7	903.1	1204.7	1556.8	1586.5	2633.5	2855.7	3102.0	3462.9
70°	377.9	385.0	395.3	498.6	775.6	1286.5	1363.4	1940.8	2223.9	2478.3	2912.0
72.5°	131.1	133.6	143.8	190.4	377.9	844.2	1193.4	1330.1	1501.0	1739.1	2241.3
75°	78.9	78.9	82.4	96.3	172.6	439.8	1061.8	1086.3	1109.4	1189.3	1518.0
77.5°	62.4	63.4	63.4	66.0	95.7	225.8	806.3	1010.1	1013.1	1020.8	1076.1
80°	44.6	46.6	50.7	52.7	62.0	123.9	452.6	886.7	947.1	976.3	1016.8
82.5°	33.3	35.3	43.0	45.6	48.1	69.1	203.3	611.8	721.9	780.2	922.5
85°	14.9	17.4	29.2	32.3	33.8	36.8	95.3	174.0	200.2	224.7	296.5
87.5°	2.6	2.6	4.7	6.7	9.8	9.2	21.0	29.7	30.2	35.3	39.4
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4
2.5°	490.0	490.0	490.0	489.4	490.0	490.0	490.0	490.0	490.4	490.4	490.4
5°	500.7	499.6	500.2	500.2	500.2	499.6	500.7	500.2	500.7	502.2	501.7
7.5°	516.6	517.6	518.1	518.6	518.6	518.6	519.2	520.2	520.2	521.7	521.2
10°	540.1	539.6	540.1	541.7	543.2	543.7	545.2	544.7	545.8	547.8	549.9
12.5°	565.2	566.2	567.7	569.3	571.8	572.4	573.9	574.4	577.5	577.5	579.5
15°	593.4	593.9	596.9	597.5	600.6	601.6	604.1	605.1	608.7	609.2	611.3
17.5°	619.0	620.0	621.5	623.1	626.6	628.2	630.2	632.3	635.4	636.4	639.9
20°	639.4	641.5	642.0	645.0	648.1	650.1	652.2	654.2	657.3	658.9	662.5
22.5°	657.9	659.9	661.5	664.0	666.1	669.1	670.1	673.8	676.8	679.4	682.4
25°	677.9	680.9	682.4	687.1	688.6	691.6	694.2	697.8	701.9	704.9	709.0
27.5°	706.0	710.6	712.7	717.8	721.3	722.9	727.0	732.1	735.7	739.3	743.4
30°	744.9	753.6	755.2	758.7	765.4	766.4	771.5	775.6	781.2	784.8	788.4
32.5°	805.3	816.1	817.1	821.2	826.8	828.8	832.9	837.6	846.2	847.8	853.4
35°	898.0	902.6	906.7	908.2	912.8	915.4	918.4	923.5	932.3	931.3	937.4
37.5°	1009.0	1010.6	1011.1	1006.0	1007.0	1002.4	1008.0	1009.0	1012.1	1014.7	1020.8
40°	1167.7	1151.9	1149.9	1137.6	1125.3	1118.6	1116.1	1105.9	1108.4	1109.4	1114.5
42.5°	1399.7	1368.9	1343.4	1326.0	1295.7	1280.9	1260.9	1245.1	1232.8	1237.4	1239.4
45°	1693.6	1649.5	1608.6	1555.4	1515.9	1487.7	1452.4	1420.7	1406.3	1399.7	1407.9
47.5°	1986.9	1948.0	1899.8	1845.1	1782.6	1736.0	1677.1	1625.5	1589.6	1576.3	1583.5
50°	2240.3	2204.5	2168.1	2135.9	2063.2	2012.5	1932.1	1865.0	1808.8	1780.1	1772.4
52.5°	2450.7	2431.8	2412.3	2385.2	2326.8	2276.2	2212.2	2146.2	2071.4	2013.0	1993.0
55°	2638.6	2649.9	2640.2	2640.7	2617.6	2585.4	2531.1	2482.0	2429.8	2363.7	2336.0
57.5°	2912.5	2979.1	2992.4	3025.7	3042.1	3059.5	3074.8	3045.6	3032.3	2983.2	2983.6
60°	3344.1	3441.4	3525.9	3602.6	3665.6	3727.0	3791.6	3820.2	3851.9	3866.8	3917.5
62.5°	3803.3	3896.0	4021.9	4124.9	4182.7	4262.5	4332.7	4378.3	4434.1	4493.4	4570.7
65°	3917.0	4028.6	4107.9	4176.6	4233.9	4276.4	4314.7	4369.0	4415.7	4509.8	4601.0
67.5°	3625.7	3714.7	3787.5	3855.0	3899.6	3935.4	3969.7	4005.5	4085.4	4170.9	4262.5
70°	3112.2	3219.7	3340.0	3427.6	3449.6	3480.3	3513.0	3559.6	3599.6	3689.1	3758.8
72.5°	2500.4	2655.0	2756.9	2878.3	2904.3	2950.9	2969.3	3005.7	3012.9	3061.5	3079.9
75°	1742.7	1919.8	2022.2	2111.3	2128.8	2103.1	2113.3	1984.8	1952.1	1925.5	1904.0
77.5°	1150.3	1198.0	1214.3	1200.0	1131.4	1077.7	1020.3	964.0	970.1	924.6	844.7
80°	1022.9	1033.7	1018.8	1004.5	965.0	908.7	857.0	804.3	778.1	750.5	709.6
82.5°	995.3	1036.8	1041.3	1023.9	992.7	931.3	868.7	790.4	723.9	662.5	600.0
85°	332.7	404.9	437.2	467.4	476.7	487.4	450.5	400.4	339.9	299.5	234.5
87.5°	42.5	52.7	60.9	52.2	60.9	71.6	51.7	57.9	58.3	36.4	27.2
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4
2.5°	491.0	490.4	490.4	490.4	490.0	490.4	490.4	490.4	490.4	490.4	490.0
5°	502.2	502.2	503.7	504.3	503.3	502.7	503.3	503.7	503.7	503.3	503.7
7.5°	523.3	523.7	524.7	526.3	525.3	525.8	526.3	525.8	527.4	527.8	527.4
10°	549.9	550.9	553.4	554.0	553.4	555.4	556.0	555.0	556.0	556.0	558.0
12.5°	580.6	581.6	584.7	585.7	586.7	587.3	588.7	589.3	590.8	591.8	593.4
15°	613.9	614.9	616.9	620.5	621.5	622.5	623.5	626.6	627.2	629.2	630.7
17.5°	642.0	643.5	646.6	649.1	650.7	653.2	654.2	657.9	658.9	662.0	664.6
20°	664.6	667.1	669.7	672.7	675.3	678.3	679.4	683.0	685.0	686.5	689.6
22.5°	685.0	688.1	691.6	695.3	697.3	701.4	702.9	704.5	709.0	711.1	714.1
25°	711.6	714.7	718.8	723.4	725.4	730.5	732.1	734.7	739.8	741.9	746.4
27.5°	748.0	752.1	755.2	759.7	762.3	765.9	769.5	772.6	777.1	780.2	785.3
30°	793.5	796.6	801.7	805.3	809.4	814.5	818.6	821.7	824.3	828.8	834.5
32.5°	860.6	861.1	862.6	871.4	875.4	879.5	885.2	887.7	891.8	896.5	902.6
35°	944.0	948.7	952.3	956.4	960.9	965.6	967.6	975.3	978.9	985.0	991.2
37.5°	1027.0	1027.5	1035.7	1038.2	1042.3	1047.0	1054.1	1061.8	1071.0	1077.1	1086.9
40°	1116.1	1120.2	1130.4	1135.5	1140.7	1151.9	1157.5	1169.8	1185.2	1193.9	1210.2
42.5°	1245.1	1251.3	1269.7	1277.9	1290.1	1308.6	1320.4	1337.2	1343.4	1364.4	1372.0
45°	1414.1	1432.9	1459.5	1477.0	1499.0	1519.0	1529.2	1536.9	1546.1	1562.5	1560.5
47.5°	1596.8	1621.4	1651.1	1686.9	1701.2	1724.8	1738.1	1752.9	1744.8	1740.7	1736.6
50°	1784.2	1812.8	1852.3	1884.5	1906.5	1920.8	1932.1	1930.1	1912.7	1903.5	1877.9
52.5°	1992.6	2009.4	2046.8	2074.4	2087.7	2090.8	2088.3	2072.9	2056.6	2027.4	1997.1
55°	2312.0	2304.3	2319.2	2331.9	2327.8	2342.2	2305.3	2291.0	2250.5	2212.7	2172.2
57.5°	2961.1	2971.4	2888.5	2851.1	2844.4	2857.8	2792.8	2784.6	2686.7	2674.4	2606.3
60°	3910.3	3960.5	3895.5	3859.1	3760.9	3728.6	3655.8	3625.7	3532.0	3456.2	3360.5
62.5°	4624.0	4669.5	4696.7	4645.0	4587.7	4503.2	4393.1	4271.3	4171.9	4055.7	3954.3
65°	4688.5	4780.7	4843.1	4867.2	4826.7	4734.1	4598.4	4444.8	4292.8	4146.8	4018.8
67.5°	4386.9	4469.4	4566.2	4652.7	4657.8	4597.3	4481.7	4325.5	4149.9	3969.7	3819.7
70°	3868.9	3972.3	4056.8	4147.8	4211.4	4176.6	4118.7	3975.4	3793.0	3652.8	3480.3
72.5°	3146.5	3190.0	3210.4	3300.1	3301.1	3237.6	3196.7	3117.3	2970.3	2871.1	2739.5
75°	1837.4	1741.7	1639.8	1551.3	1479.1	1448.8	1314.7	1292.2	1202.1	1146.2	1064.4
77.5°	757.7	672.2	562.1	470.5	379.9	338.9	279.5	253.4	219.6	204.7	195.1
80°	649.7	568.7	485.9	406.5	335.8	265.2	206.3	160.3	126.0	107.0	99.3
82.5°	530.4	481.8	423.9	380.9	325.6	272.8	230.4	178.7	133.6	98.3	75.3
85°	191.4	157.2	126.4	116.2	92.7	76.3	64.0	54.8	45.0	35.8	31.7
87.5°	21.5	20.5	11.8	11.3	12.8	9.2	10.8	9.8	8.2	7.2	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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4
2.5°	490.0	490.0	490.4	490.4	491.0	491.4	492.5	492.0	492.0	492.5	492.5
5°	503.7	505.3	504.7	504.7	504.7	505.3	505.8	503.7	501.7	499.6	498.6
7.5°	527.8	528.8	529.9	528.8	529.9	529.4	528.4	522.7	516.1	507.8	502.2
10°	559.1	559.1	560.1	559.5	561.6	560.1	557.0	544.2	529.9	512.5	499.6
12.5°	592.8	596.5	594.9	595.4	599.5	595.4	588.3	569.3	543.7	515.5	493.0
15°	632.7	634.3	635.4	633.8	636.4	632.7	620.0	589.8	552.4	513.0	479.7
17.5°	665.6	666.1	666.6	667.6	671.2	667.1	645.0	604.1	554.4	501.2	457.2
20°	691.2	693.7	695.7	695.7	700.8	694.7	665.6	611.3	547.8	481.8	428.5
22.5°	717.8	719.8	722.3	722.9	729.5	723.4	682.4	609.8	530.4	454.1	395.3
25°	750.5	752.6	754.6	757.2	766.4	757.7	699.4	603.6	506.3	421.3	359.4
27.5°	788.4	793.0	794.5	798.6	809.4	796.1	713.7	594.4	479.7	383.4	321.5
30°	839.1	844.7	846.8	852.4	867.3	838.1	721.9	578.5	446.0	345.0	281.0
32.5°	907.2	914.9	921.0	927.2	944.0	880.1	722.9	555.4	406.5	302.0	242.1
35°	996.3	1008.0	1012.7	1016.8	1032.7	925.6	718.2	521.2	358.3	258.0	211.4
37.5°	1096.1	1107.9	1111.0	1113.0	1116.1	964.6	707.0	468.9	304.1	219.6	186.9
40°	1219.0	1229.2	1233.3	1230.2	1213.9	994.7	682.0	408.0	251.4	193.5	171.5
42.5°	1368.9	1384.3	1385.9	1372.0	1317.8	1011.6	631.7	336.4	209.9	174.6	159.7
45°	1554.8	1553.8	1545.1	1535.4	1430.9	1004.9	561.6	273.9	183.8	159.7	149.0
47.5°	1721.7	1704.3	1691.0	1662.3	1530.7	966.1	471.0	226.8	167.9	148.5	139.7
50°	1858.4	1826.6	1798.5	1767.3	1604.9	896.9	380.9	192.5	153.1	138.7	131.1
52.5°	1966.4	1928.0	1895.3	1864.6	1676.7	820.2	312.3	167.4	138.7	129.0	121.3
55°	2135.4	2096.9	2044.8	2011.0	1786.2	749.5	267.7	147.4	124.9	118.8	111.1
57.5°	2562.9	2529.0	2466.6	2379.1	2067.8	722.9	242.7	132.1	113.7	110.0	103.9
60°	3309.3	3254.5	3173.1	3084.0	2640.2	740.8	222.7	121.3	106.0	102.9	98.3
62.5°	3872.4	3776.2	3684.0	3601.6	3097.9	740.3	196.6	113.1	100.4	98.8	94.2
65°	3895.5	3797.7	3705.0	3618.5	3108.1	658.9	165.9	106.0	99.3	98.8	91.2
67.5°	3688.7	3582.6	3493.0	3384.0	2877.2	515.1	133.1	101.4	103.4	102.4	90.1
70°	3350.7	3212.5	3138.8	3031.3	2532.1	360.4	109.6	102.9	112.1	109.0	91.6
72.5°	2629.9	2525.5	2413.3	2338.6	1982.3	227.8	92.2	103.9	115.7	110.6	95.7
75°	978.9	1007.0	960.9	944.6	1007.0	133.6	82.0	96.7	103.4	95.7	87.1
77.5°	197.6	188.9	179.2	177.1	228.8	82.4	75.3	84.0	79.3	70.1	70.6
80°	94.7	92.2	89.1	88.6	85.0	68.6	69.6	71.6	59.9	54.2	57.9
82.5°	63.0	59.3	58.3	56.3	57.3	61.4	66.0	61.4	46.0	43.0	52.2
85°	29.2	28.2	27.6	27.6	30.7	55.3	54.8	45.0	31.7	30.7	52.2
87.5°	7.2	7.2	7.7	7.2	8.2	16.4	14.3	13.9	11.8	13.3	24.6
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):

	165°	175°	180°
0°	488.4	488.4	488.4
2.5°	492.0	492.5	492.0
5°	496.6	496.6	496.6
7.5°	496.6	495.1	494.5
10°	489.4	484.8	484.8
12.5°	477.1	469.5	468.5
15°	454.1	443.9	442.3
17.5°	424.9	411.1	408.6
20°	392.2	374.8	371.7
22.5°	356.3	336.4	334.8
25°	321.0	300.6	296.5
27.5°	281.6	261.6	259.5
30°	242.1	224.7	223.7
32.5°	208.8	198.1	196.1
35°	185.3	179.2	176.7
37.5°	170.0	165.4	164.8
40°	158.2	154.1	153.6
42.5°	148.5	144.8	144.4
45°	138.7	135.6	134.6
47.5°	129.0	126.0	125.4
50°	120.3	116.2	115.7
52.5°	112.1	108.0	107.0
55°	104.5	100.4	100.4
57.5°	97.8	93.7	93.2
60°	91.6	87.5	87.1
62.5°	87.1	82.0	81.4
65°	83.4	78.3	77.3
67.5°	81.4	75.3	73.8
70°	85.0	73.8	71.2
72.5°	85.5	72.2	68.6
75°	82.4	68.1	65.5
77.5°	72.2	60.9	58.3
80°	62.4	47.1	43.5
82.5°	59.3	38.4	33.3
85°	46.0	25.1	23.5
87.5°	26.1	13.9	11.3
90°	0.0	0.0	0.0

(END OF REPORT)