

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: P180668

Luminaire Tested: **ICM-E02-LED-E1-SL3**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180668
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E02-LED-E1-SL3
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5648.7 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.1
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

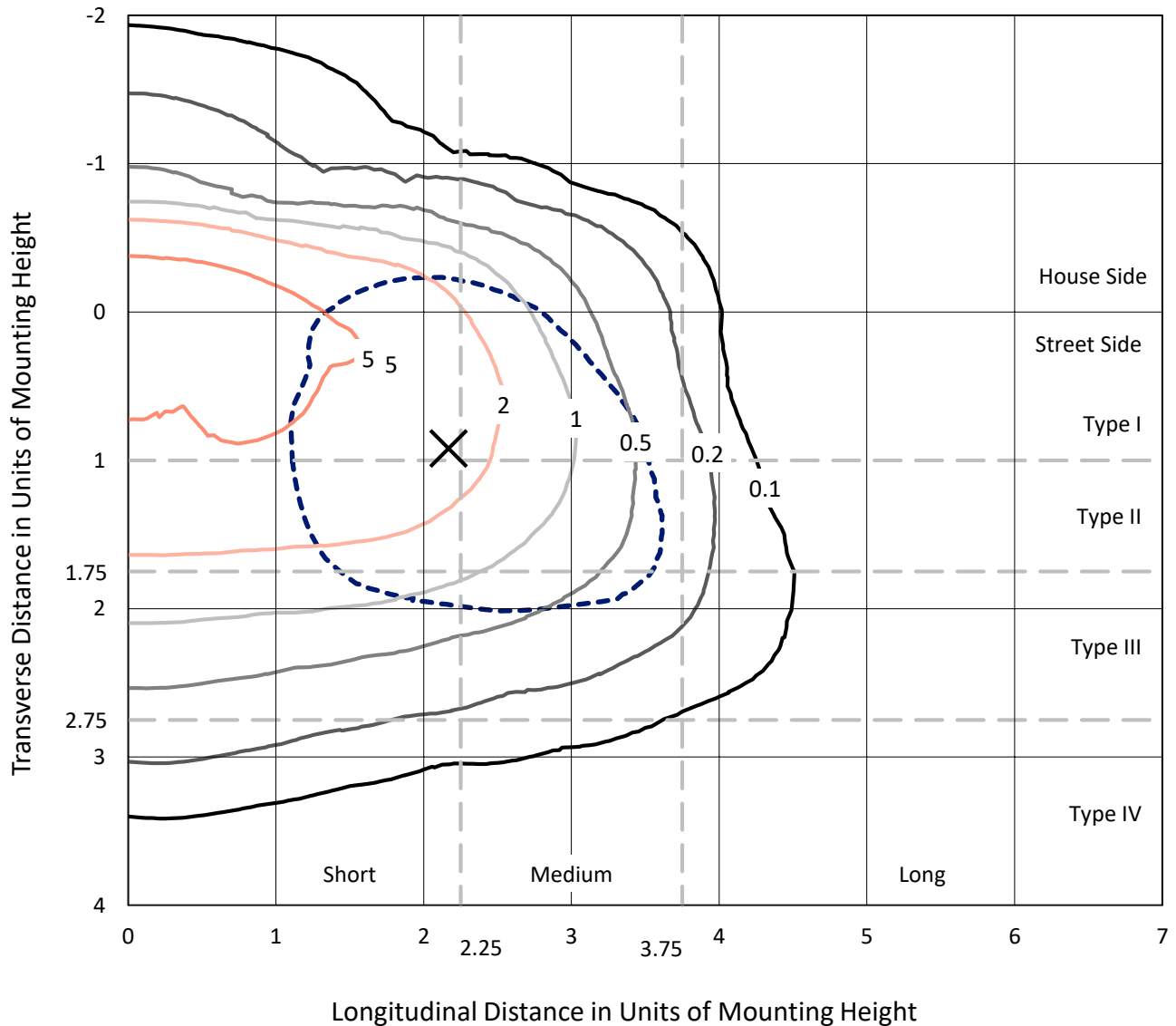


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Iso-Footcandle Lines of Horizontal Illumination

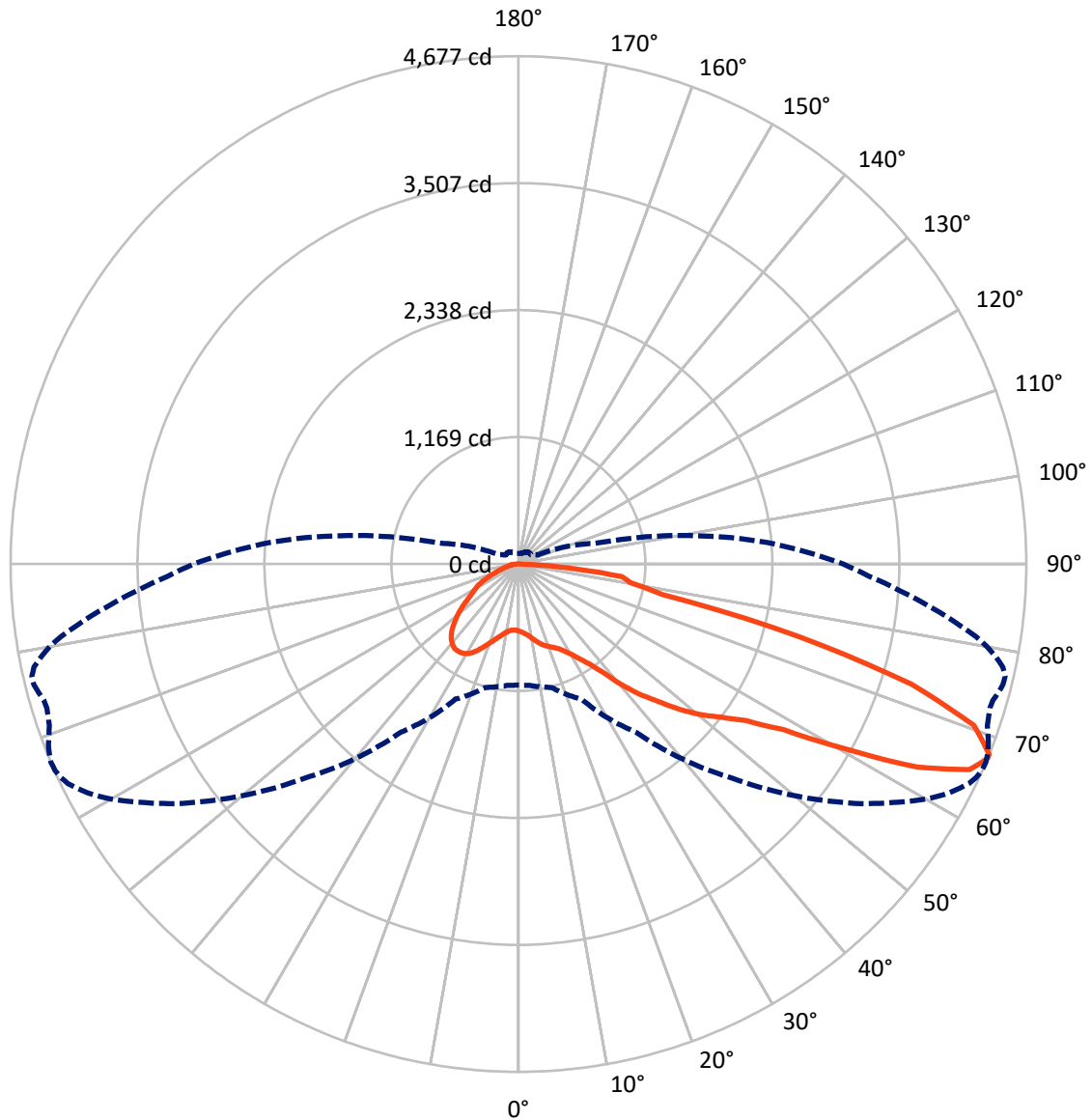
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1303.5	0.0	1303.5
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	4345.2	0.0	4345.2
	% Fixture	76.9	0.0	76.9
Total	Lumens	5648.7	0.0	5648.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	1.1
10°-20°	210.7	3.7
20°-30°	372.0	6.6
30°-40°	533.9	9.5
40°-50°	810.9	14.4
50°-60°	1193.9	21.1
60°-70°	1586.7	28.1
70°-80°	776.2	13.7
80°-90°	103.1	1.8
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°	5648.7	100.0
0°-180°	5648.7	100.0



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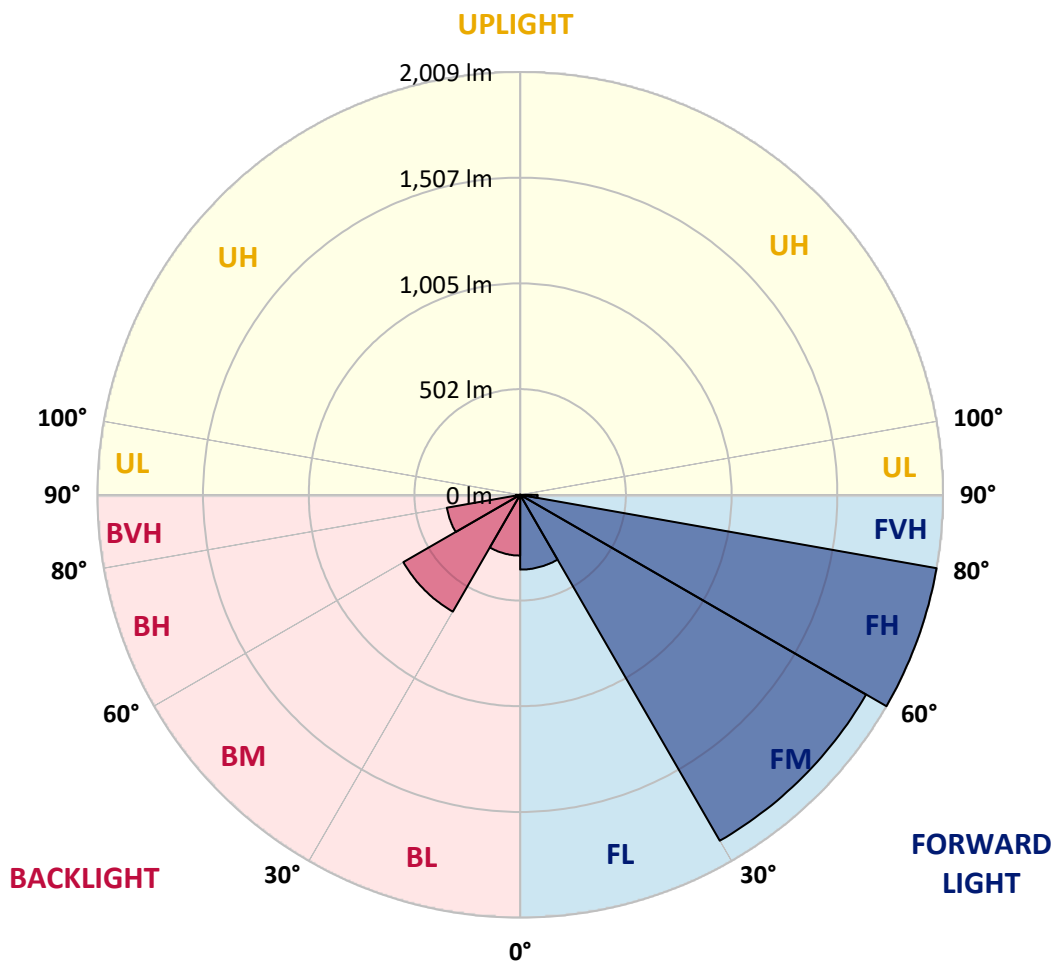
CATALOG NUMBER: ICM-E02-LED-E1-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	355.4	6.3			
FM	(30°-60°)	1897.8	33.6			
FH	(60°-80°)	2009.2	35.6			G2/5000
FVH	(80°-90°)	82.8	1.5			G1/100
BL	(0°-30°)	288.7	5.1	B1/500		
BM	(30°-60°)	640.9	11.3	B1/1000		
BH	(60°-80°)	353.7	6.3	B1/500		G1/500
BVH	(80°-90°)	20.3	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
2.5°	646.2	646.8	645.6	644.9	641.2	637.5	635.1	631.9	631.9	631.9	630.7
5°	682.8	680.3	682.1	677.9	670.4	663.5	656.7	651.2	650.0	650.0	647.4
7.5°	726.8	723.7	722.5	716.3	705.1	695.2	681.6	676.0	672.8	671.6	670.4
10°	780.2	780.2	772.1	761.6	746.7	729.3	714.4	704.5	703.9	703.9	698.3
12.5°	834.7	836.0	825.4	814.9	790.7	767.7	750.4	739.3	738.6	736.1	733.0
15°	884.9	881.9	875.1	859.5	832.8	805.6	783.9	772.7	770.2	767.7	765.9
17.5°	926.5	923.4	914.7	894.9	867.0	834.7	808.1	796.3	795.1	793.8	791.4
20°	952.6	950.1	937.7	914.7	885.6	852.7	824.2	816.1	813.7	813.7	812.4
22.5°	967.4	963.7	945.8	915.4	886.8	862.6	839.1	834.1	832.3	832.8	832.8
25°	974.9	971.8	946.3	903.0	875.6	868.8	858.9	855.8	856.5	857.0	858.3
27.5°	976.1	971.8	942.1	886.8	861.4	880.7	887.4	892.4	892.4	894.9	899.3
30°	966.8	961.9	933.3	874.4	855.2	904.2	931.4	944.5	949.5	948.2	958.1
32.5°	950.7	947.6	924.7	874.4	872.6	950.7	999.1	1017.7	1020.2	1021.4	1032.6
35°	945.1	944.5	934.6	904.2	926.5	1032.6	1106.3	1120.7	1123.7	1123.7	1131.8
37.5°	943.9	947.0	958.1	960.0	1021.4	1154.1	1250.9	1272.6	1272.6	1278.8	1278.8
40°	943.9	950.7	992.8	1043.1	1137.4	1312.3	1446.2	1471.0	1471.0	1477.9	1474.1
42.5°	980.5	990.4	1059.8	1155.4	1283.7	1475.4	1629.1	1657.0	1658.9	1657.0	1662.6
45°	1052.4	1061.1	1145.4	1282.5	1434.4	1650.2	1804.0	1837.5	1830.7	1835.1	1836.9
47.5°	1147.9	1161.6	1257.7	1421.4	1581.4	1812.1	2000.0	2030.4	2027.9	2029.8	2021.7
50°	1249.6	1263.9	1371.2	1559.1	1727.7	1942.3	2157.5	2202.8	2198.4	2201.6	2205.9
52.5°	1339.5	1348.2	1451.8	1662.6	1838.8	2063.9	2278.4	2334.9	2344.9	2346.1	2349.1
55°	1392.8	1403.5	1498.3	1714.2	1919.4	2183.0	2416.8	2502.3	2521.6	2526.5	2540.2
57.5°	1411.5	1422.6	1508.8	1721.6	1963.5	2294.6	2609.6	2760.3	2776.5	2803.1	2846.5
60°	1410.9	1422.6	1497.7	1704.8	2008.1	2432.9	2909.8	3162.2	3244.0	3271.4	3333.3
62.5°	1353.2	1366.8	1443.1	1654.0	2065.1	2609.6	3356.3	3744.5	3850.0	3899.6	3966.5
65°	1226.7	1236.6	1307.9	1524.9	2049.0	2783.9	3729.6	4214.0	4310.1	4382.6	4502.4
67°	1114.4	1120.7	1176.5	1372.4	1891.5	2790.1	3847.5	4330.5	4414.3	4491.2	4614.6
67.5°	1085.9	1098.9	1142.3	1325.9	1832.6	2754.7	3839.4	4312.6	4398.2	4478.2	4608.4
70°	883.7	902.3	924.0	1047.4	1440.7	2317.5	3554.7	4001.2	4076.3	4150.7	4332.4
72.5°	545.1	578.6	583.0	661.1	937.7	1601.9	2876.3	3374.3	3430.7	3484.0	3670.1
75°	321.2	326.2	341.7	404.9	550.0	957.5	1930.0	2506.7	2558.8	2584.9	2730.5
77.5°	179.3	184.2	197.2	251.8	423.0	644.9	1123.7	1472.8	1504.5	1537.4	1513.8
80°	74.4	81.2	87.4	101.7	197.9	509.1	772.7	936.5	956.9	976.1	1000.3
82.5°	36.0	38.4	47.2	54.0	71.9	209.0	605.9	811.8	836.0	863.9	920.3
85°	16.7	18.6	26.0	31.0	34.7	52.7	202.8	395.1	428.6	434.7	445.9
87.5°	1.2	1.2	3.1	4.4	6.2	6.8	21.1	29.8	33.5	30.4	38.4
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°	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
2.5°	630.1	629.5	628.2	628.2	627.6	627.6	627.6	626.3	626.3	626.3	625.8
5°	646.8	646.2	644.4	644.4	643.1	643.1	641.2	640.7	639.4	639.4	638.8
7.5°	668.6	667.9	665.4	665.4	663.5	663.0	661.7	659.8	659.8	658.6	657.4
10°	698.3	696.5	695.8	692.7	693.3	692.1	690.9	689.0	687.7	686.5	685.3
12.5°	731.8	731.8	728.7	726.8	728.1	726.8	724.4	723.7	721.9	721.9	720.0
15°	763.4	763.4	762.1	759.7	760.3	758.4	757.9	756.6	754.1	754.7	754.1
17.5°	790.7	790.7	788.8	787.6	787.6	785.8	786.3	785.1	783.9	783.3	781.4
20°	812.4	812.4	811.2	810.0	810.5	810.5	808.7	808.7	808.7	807.4	807.4
22.5°	833.5	834.1	834.1	834.1	834.7	835.4	834.7	836.0	835.4	836.6	836.6
25°	861.4	863.3	864.5	864.5	867.6	868.2	868.8	870.7	870.7	872.6	873.2
27.5°	903.0	904.2	909.1	910.4	911.0	916.0	916.6	919.1	921.6	922.1	922.8
30°	960.0	963.1	966.8	969.3	969.3	975.5	978.0	976.8	983.5	985.4	987.9
32.5°	1036.3	1038.8	1042.5	1044.9	1047.4	1050.5	1051.2	1054.2	1059.8	1064.8	1061.7
35°	1132.4	1138.6	1132.4	1139.3	1141.1	1145.4	1144.2	1147.9	1150.4	1152.3	1151.6
37.5°	1271.9	1268.8	1267.6	1265.1	1260.8	1275.6	1268.2	1267.6	1263.9	1274.4	1267.6
40°	1455.5	1457.4	1459.3	1449.3	1443.7	1443.7	1441.9	1435.1	1431.9	1441.2	1440.0
42.5°	1647.2	1649.0	1640.3	1634.1	1619.8	1618.0	1609.3	1607.5	1604.4	1609.3	1604.4
45°	1821.4	1822.6	1803.5	1806.5	1795.4	1797.2	1783.5	1789.1	1781.7	1786.7	1796.0
47.5°	2016.1	2018.6	2001.9	2008.7	1997.5	1990.7	1990.1	1993.8	1985.8	1990.7	1993.2
50°	2192.9	2189.8	2181.1	2183.0	2178.0	2179.3	2171.8	2178.6	2169.3	2179.3	2178.0
52.5°	2349.8	2346.1	2344.2	2350.4	2346.1	2346.1	2341.7	2344.9	2346.1	2360.9	2364.0
55°	2540.2	2543.3	2546.3	2557.5	2562.5	2554.4	2562.5	2578.0	2578.6	2614.0	2633.2
57.5°	2845.9	2867.6	2878.8	2885.6	2914.7	2911.6	2930.3	2967.5	2971.2	3053.0	3100.8
60°	3379.3	3417.7	3454.3	3434.4	3493.3	3511.4	3522.5	3591.9	3613.7	3691.2	3732.8
62.5°	4052.8	4057.0	4114.2	4096.1	4129.6	4121.6	4135.2	4166.8	4195.4	4259.3	4298.4
65°	4522.8	4543.3	4565.6	4542.6	4542.1	4514.7	4497.4	4496.8	4514.2	4527.7	4571.2
67°	4650.5	4671.0	4676.6	4659.8	4635.7	4601.0	4568.7	4551.9	4540.8	4547.0	4574.3
67.5°	4649.3	4668.6	4675.4	4659.3	4625.8	4596.6	4562.5	4543.3	4528.4	4531.5	4554.4
70°	4385.1	4426.7	4449.1	4454.0	4449.6	4398.8	4369.6	4352.3	4339.8	4309.5	4307.7
72.5°	3715.4	3765.6	3783.0	3810.9	3823.3	3748.2	3716.6	3735.8	3692.4	3596.3	3600.7
75°	2728.1	2731.8	2673.5	2662.3	2620.8	2450.9	2400.0	2353.5	2279.1	2163.1	2054.0
77.5°	1422.1	1421.4	1354.4	1320.3	1270.7	1168.4	1163.4	1080.3	1022.1	916.0	877.5
80°	1010.2	1026.3	1048.7	1059.8	1042.5	1002.8	948.2	889.3	821.7	755.4	676.0
82.5°	939.5	949.5	961.2	917.9	893.7	837.9	796.3	710.7	663.0	587.3	507.3
85°	457.0	487.4	463.9	436.6	427.3	334.2	323.1	269.8	244.9	201.6	187.9
87.5°	29.1	36.0	32.3	29.1	25.4	14.2	19.3	13.7	14.2	10.5	9.3
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
2.5°	625.8	625.1	624.5	623.9	623.3	623.3	622.6	622.1	621.4	620.2	620.2
5°	637.5	637.5	636.9	635.6	635.6	634.4	632.6	631.9	631.9	630.7	629.5
7.5°	656.7	656.1	654.9	654.2	653.0	651.8	650.5	649.3	648.7	646.8	646.2
10°	685.9	684.7	681.6	680.3	679.7	678.4	677.2	676.0	674.1	672.8	672.3
12.5°	718.8	718.1	715.6	716.9	713.8	712.6	711.4	708.2	709.5	707.0	705.8
15°	751.6	752.3	751.0	751.0	748.6	746.7	745.4	743.0	742.3	741.1	739.8
17.5°	780.7	782.1	780.2	778.9	777.7	776.5	774.0	771.4	771.4	769.0	767.7
20°	807.4	808.7	808.1	806.8	804.9	804.4	803.1	801.2	801.2	800.0	798.1
22.5°	837.9	838.4	838.4	837.9	836.0	836.6	835.4	833.5	834.1	831.6	831.6
25°	874.4	875.6	876.9	877.5	876.3	876.9	875.6	874.4	873.8	874.4	873.8
27.5°	924.7	925.9	929.6	926.5	929.6	930.2	928.4	925.9	927.7	930.9	929.0
30°	991.0	989.8	994.7	995.4	994.7	995.4	994.1	992.3	993.5	999.1	996.0
32.5°	1065.4	1067.9	1069.1	1070.4	1072.3	1074.7	1072.8	1071.0	1074.1	1072.3	1076.6
35°	1155.4	1160.9	1162.8	1160.9	1162.1	1166.5	1165.9	1166.5	1172.8	1166.5	1174.6
37.5°	1268.8	1274.4	1278.8	1276.3	1279.4	1279.4	1284.4	1298.0	1289.3	1300.5	1309.1
40°	1433.8	1442.5	1443.1	1442.5	1445.6	1449.3	1454.2	1469.1	1459.3	1471.0	1479.1
42.5°	1603.7	1614.2	1618.0	1611.8	1618.6	1626.7	1627.3	1640.3	1640.9	1642.8	1647.2
45°	1795.4	1804.7	1812.1	1809.0	1809.6	1820.2	1817.7	1830.1	1820.8	1820.8	1823.3
47.5°	1999.4	2008.1	2013.0	2018.0	2011.8	2021.1	2025.4	2023.0	2011.8	2009.3	1994.4
50°	2185.4	2192.9	2200.3	2214.0	2213.3	2217.7	2220.8	2209.6	2207.2	2193.5	2176.8
52.5°	2382.6	2401.9	2418.6	2447.2	2451.5	2466.3	2460.8	2442.2	2439.1	2416.8	2394.4
55°	2657.4	2712.6	2736.8	2780.8	2810.5	2810.0	2797.5	2794.4	2770.9	2726.2	2699.6
57.5°	3135.6	3221.7	3263.3	3320.3	3329.6	3324.0	3307.9	3279.4	3238.4	3163.5	3115.1
60°	3825.8	3879.1	3927.5	3941.1	3947.9	3937.4	3881.0	3817.7	3737.7	3634.2	3547.9
62.5°	4347.3	4401.9	4437.9	4432.3	4389.5	4335.6	4253.0	4147.0	4034.7	3918.8	3789.8
65°	4612.8	4635.7	4630.1	4586.7	4513.5	4419.3	4298.9	4168.1	4036.0	3898.9	3765.0
67°	4598.4	4599.1	4561.2	4477.0	4383.3	4264.9	4117.9	3975.2	3820.2	3676.3	3517.0
67.5°	4573.1	4570.5	4517.9	4425.4	4324.4	4202.2	4049.6	3902.1	3741.4	3596.3	3431.4
70°	4285.3	4250.5	4131.5	3983.9	3843.1	3678.2	3518.2	3348.9	3167.7	3043.1	2853.3
72.5°	3521.2	3404.0	3198.8	3044.4	2893.7	2677.9	2578.0	2367.7	2240.7	2161.2	2018.0
75°	2039.1	1941.1	1782.3	1637.9	1564.7	1436.9	1376.1	1221.7	1189.5	1188.2	1138.6
77.5°	778.3	679.1	576.7	464.5	395.1	313.8	276.6	247.4	225.1	240.7	218.3
80°	583.5	480.0	375.2	272.8	194.7	143.9	123.4	114.1	108.6	104.2	101.1
82.5°	434.7	343.0	266.0	173.7	121.6	91.8	79.3	74.4	71.9	67.6	63.9
85°	147.0	117.9	93.0	64.5	50.9	41.6	38.4	37.2	35.3	32.3	30.4
87.5°	8.1	7.4	8.1	6.2	7.4	6.2	6.8	6.8	6.8	6.2	6.2
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
2.5°	619.5	619.5	619.5	618.3	616.5	612.7	609.0	605.9	602.8	600.9	599.7
5°	628.8	627.6	627.0	626.3	622.1	614.6	607.7	601.6	595.4	590.4	588.6
7.5°	645.6	643.1	642.5	640.7	635.1	623.9	614.0	604.0	595.4	588.6	585.4
10°	671.0	671.0	667.3	664.8	658.6	643.7	629.5	616.5	604.7	597.2	595.4
12.5°	703.3	703.3	700.2	698.3	690.9	671.6	654.2	638.8	627.6	620.2	619.5
15°	736.7	736.1	733.7	731.2	723.1	702.6	685.3	671.6	662.3	653.7	651.2
17.5°	766.5	766.5	763.4	760.9	752.8	735.5	720.0	710.1	699.5	681.6	667.9
20°	796.3	796.9	794.4	791.9	785.1	770.2	763.4	753.5	730.0	690.9	658.6
22.5°	829.1	831.6	828.6	826.1	820.5	814.2	811.8	788.2	738.6	676.0	628.8
25°	871.4	875.6	871.9	870.7	867.6	869.5	862.1	807.4	726.2	643.7	584.8
27.5°	929.0	929.0	929.6	929.6	928.4	935.2	907.9	808.1	698.9	602.1	532.1
30°	996.6	1000.3	999.1	999.1	1004.0	1008.4	933.3	794.4	664.2	550.7	467.6
32.5°	1077.9	1080.9	1082.1	1076.6	1096.5	1074.1	942.6	769.6	621.4	486.8	390.7
35°	1175.8	1180.2	1183.3	1183.9	1196.9	1131.2	937.7	733.0	560.0	406.8	306.3
37.5°	1303.5	1312.3	1319.1	1322.1	1322.8	1179.5	924.0	684.7	480.0	317.5	228.2
40°	1473.5	1482.8	1480.9	1487.2	1451.8	1208.1	893.0	614.6	380.7	233.2	176.1
42.5°	1637.2	1638.4	1640.9	1635.4	1563.5	1223.0	849.6	529.0	285.3	174.2	150.7
45°	1820.2	1809.6	1797.9	1789.1	1666.3	1228.6	790.1	424.8	201.6	146.3	139.5
47.5°	1991.9	1977.7	1953.5	1928.7	1758.2	1219.8	713.8	318.1	153.2	134.0	132.1
50°	2160.7	2134.0	2099.8	2071.4	1846.2	1206.8	629.5	229.5	134.0	127.7	125.9
52.5°	2369.6	2324.9	2280.3	2243.1	1960.9	1186.3	540.7	174.2	125.9	122.8	120.3
55°	2656.1	2594.2	2522.2	2470.1	2116.6	1155.4	447.7	147.6	122.1	119.7	116.0
57.5°	3053.0	2960.0	2878.8	2793.8	2329.3	1123.7	367.7	137.0	121.6	117.9	112.8
60°	3458.6	3347.0	3243.5	3121.9	2546.3	1092.1	311.9	135.8	123.4	117.9	110.4
62.5°	3669.5	3554.2	3429.5	3306.1	2640.0	1017.7	273.5	137.7	127.7	119.7	110.4
65°	3621.1	3480.3	3353.8	3227.9	2531.5	876.9	231.4	140.2	136.5	127.2	112.3
67°	3378.0	3231.0	3109.5	2989.1	2289.6	734.2	198.4	142.6	145.8	135.8	116.0
67.5°	3292.4	3145.4	3025.8	2908.6	2218.3	704.5	190.4	143.9	147.6	138.3	117.2
70°	2730.0	2622.1	2494.9	2404.4	1796.0	521.6	156.3	146.3	158.8	152.6	122.8
72.5°	1964.7	1861.7	1766.2	1716.0	1322.8	364.7	131.4	143.9	165.6	160.7	125.3
75°	1044.4	1038.1	1003.4	1028.2	818.6	238.1	116.0	134.6	158.1	147.0	116.6
77.5°	210.9	217.0	254.9	251.2	264.2	132.7	99.3	115.3	122.1	107.9	94.9
80°	98.0	96.1	94.2	95.5	93.7	84.9	80.7	90.5	84.9	69.5	63.3
82.5°	60.7	59.5	57.7	57.0	63.3	67.6	70.7	71.3	56.5	48.4	46.5
85°	29.1	29.1	28.6	29.8	37.2	55.2	59.5	52.7	37.9	34.7	32.8
87.5°	5.6	5.6	6.2	5.6	7.4	13.0	14.9	17.4	14.2	14.9	16.7
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):

	165°	175°	180°
0°	617.0	617.0	617.0
2.5°	598.4	597.2	597.2
5°	586.1	585.4	585.4
7.5°	583.0	583.5	583.0
10°	594.7	594.1	596.6
12.5°	620.7	622.6	622.1
15°	648.1	649.3	649.3
17.5°	656.1	651.8	651.2
20°	635.1	627.0	625.1
22.5°	595.4	580.5	581.1
25°	545.1	527.2	528.4
27.5°	486.8	467.6	467.0
30°	416.7	395.6	385.1
32.5°	332.4	307.0	307.0
35°	250.0	229.5	222.0
37.5°	189.8	178.0	174.2
40°	158.1	152.6	151.3
42.5°	143.9	142.0	141.4
45°	136.5	135.2	134.6
47.5°	129.6	129.0	128.4
50°	124.7	124.0	123.4
52.5°	120.3	119.1	118.4
55°	114.1	114.1	114.1
57.5°	110.4	110.4	109.8
60°	106.7	106.0	106.0
62.5°	103.5	102.3	103.0
65°	101.7	99.8	99.8
67°	100.5	96.7	96.7
67.5°	100.5	95.5	95.5
70°	98.6	90.5	89.3
72.5°	96.7	84.9	83.1
75°	91.8	80.7	78.8
77.5°	78.8	71.9	70.7
80°	60.7	52.7	54.0
82.5°	44.0	37.9	37.2
85°	31.6	27.3	27.3
87.5°	16.7	14.2	14.9
90°	0.0	0.0	0.0

(END OF REPORT)