

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: P180742

Luminaire Tested: **ICS-F03-LED-E1-SL3-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180742
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: ICS-F03-LED-E1-SL3-7030
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6181.3 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 78.3
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



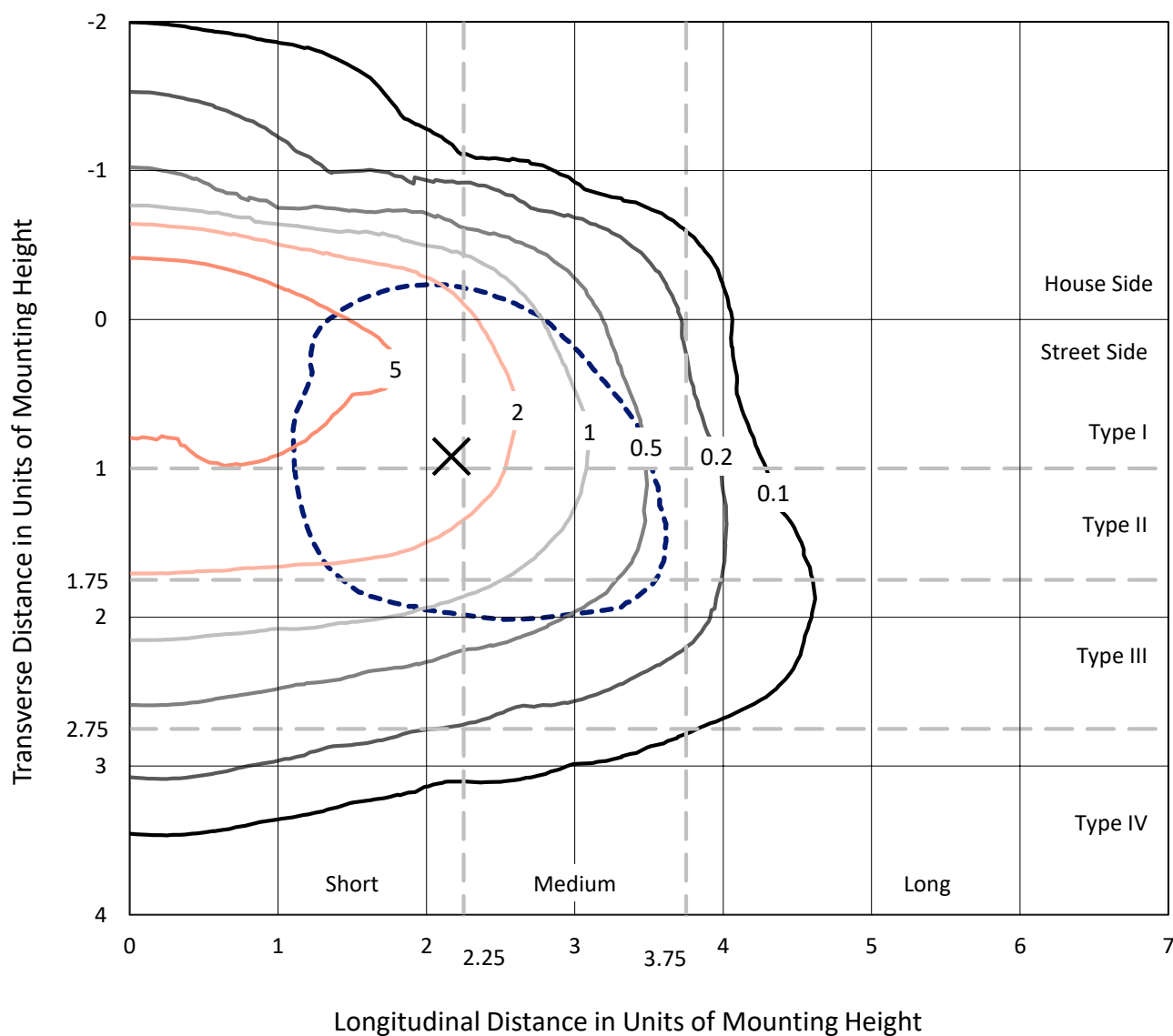
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CATALOG NUMBER: ICS-F03-LED-E1-SL3-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

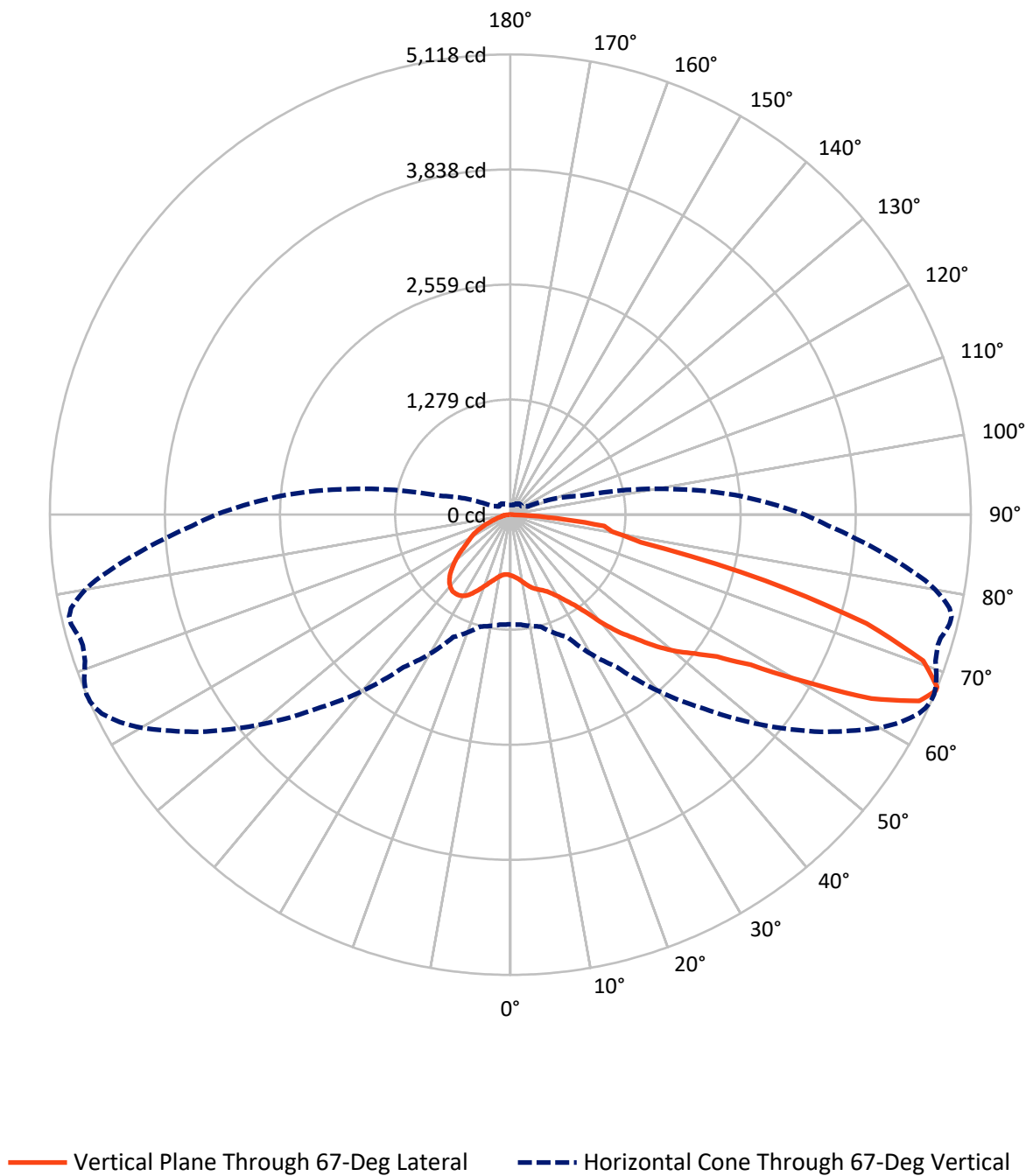


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1426.4	0.0	1426.4
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	4754.9	0.0	4754.9
	% Fixture	76.9	0.0	76.9
Total	Lumens	6181.3	0.0	6181.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	1.1
10°-20°	230.5	3.7
20°-30°	407.0	6.6
30°-40°	584.3	9.5
40°-50°	887.3	14.4
50°-60°	1306.5	21.1
60°-70°	1736.3	28.1
70°-80°	849.4	13.7
80°-90°	112.8	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°	6181.3	100.0
0°-180°	6181.3	100.0

Coefficient of Utilization



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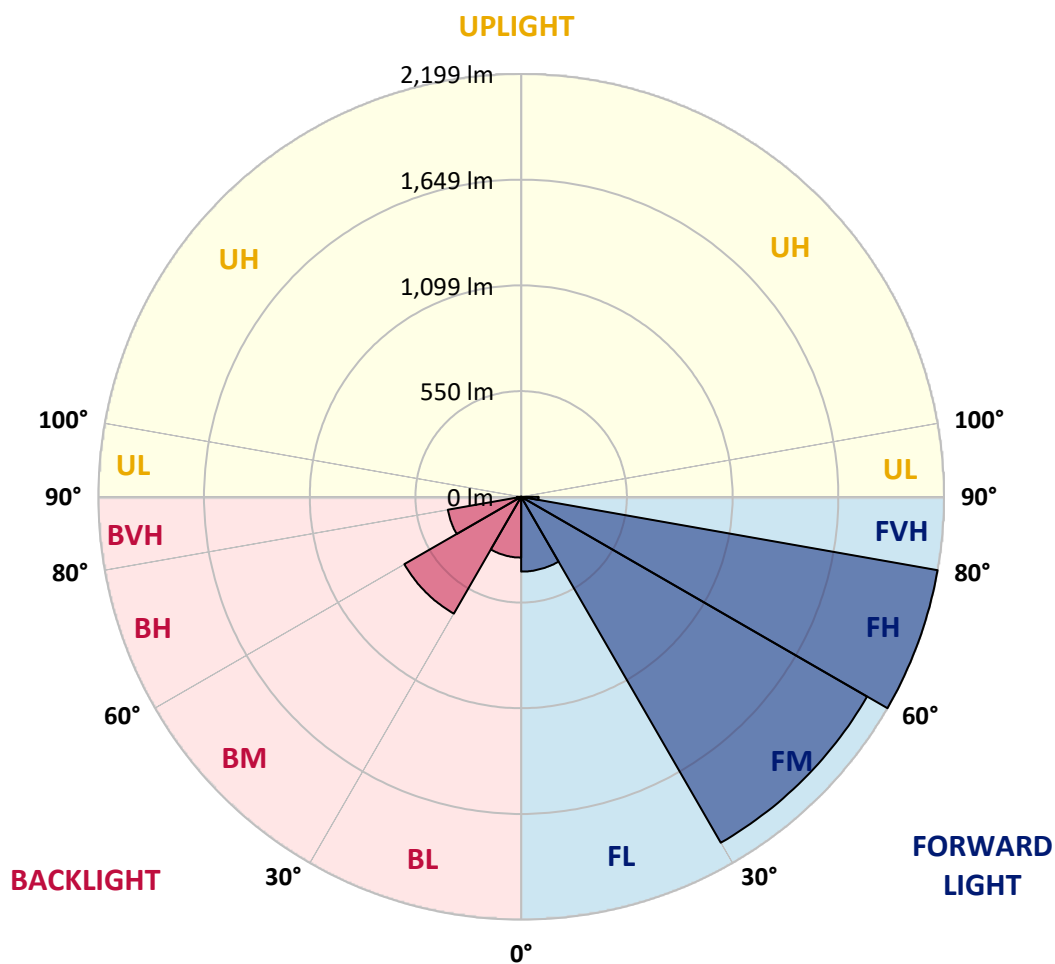
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	388.9	6.3			
FM	(30°-60°)	2076.8	33.6			
FH	(60°-80°)	2198.6	35.6			G2/5000
FVH	(80°-90°)	90.6	1.5			G1/100
BL	(0°-30°)	315.9	5.1	B1/500		
BM	(30°-60°)	701.3	11.3	B1/1000		
BH	(60°-80°)	387.0	6.3	B1/500		G1/500
BVH	(80°-90°)	22.2	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°	675.2	675.2	675.2	675.2	675.2	675.2	675.2	675.2	675.2	675.2	675.2
2.5°	707.1	707.8	706.5	705.8	701.7	697.6	694.9	691.5	691.5	691.5	690.2
5°	747.2	744.5	746.5	741.7	733.6	726.1	718.7	712.6	711.2	711.2	708.5
7.5°	795.4	792.0	790.6	783.8	771.6	760.7	745.8	739.7	736.3	735.0	733.6
10°	853.7	853.7	844.9	833.4	817.1	798.1	781.8	770.9	770.2	770.2	764.1
12.5°	913.4	914.8	903.3	891.7	865.3	840.1	821.1	808.9	808.2	805.5	802.1
15°	968.4	965.0	957.5	940.6	911.4	881.5	857.8	845.6	842.9	840.1	838.1
17.5°	1013.9	1010.5	1001.0	979.3	948.7	913.4	884.3	871.4	870.0	868.6	865.9
20°	1042.4	1039.7	1026.1	1001.0	969.1	933.1	901.9	893.1	890.4	890.4	889.0
22.5°	1058.7	1054.6	1034.9	1001.7	970.4	944.0	918.2	912.8	910.7	911.4	911.4
25°	1066.8	1063.4	1035.6	988.1	958.2	950.8	939.9	936.5	937.2	937.9	939.2
27.5°	1068.2	1063.4	1030.8	970.4	942.6	963.7	971.1	976.6	976.6	979.3	984.0
30°	1058.0	1052.6	1021.3	956.9	935.8	989.4	1019.3	1033.6	1039.0	1037.6	1048.5
32.5°	1040.3	1036.9	1011.8	956.9	954.8	1040.3	1093.3	1113.6	1116.3	1117.7	1129.9
35°	1034.2	1033.6	1022.7	989.4	1013.9	1129.9	1210.7	1226.3	1229.7	1229.7	1238.5
37.5°	1032.9	1036.3	1048.5	1050.5	1117.7	1262.9	1368.8	1392.6	1392.6	1399.3	1399.3
40°	1032.9	1040.3	1086.5	1141.5	1244.6	1436.0	1582.6	1609.7	1609.7	1617.2	1613.1
42.5°	1072.9	1083.8	1159.8	1264.3	1404.8	1614.5	1782.8	1813.3	1815.3	1813.3	1819.4
45°	1151.6	1161.1	1253.4	1403.4	1569.7	1805.8	1974.1	2010.8	2003.3	2008.1	2010.1
47.5°	1256.1	1271.1	1376.3	1555.4	1730.5	1983.0	2188.6	2221.8	2219.1	2221.2	2212.3
50°	1367.4	1383.1	1500.5	1706.1	1890.7	2125.5	2361.0	2410.5	2405.7	2409.1	2413.9
52.5°	1465.8	1475.3	1588.7	1819.4	2012.1	2258.5	2493.3	2555.0	2565.9	2567.3	2570.7
55°	1524.2	1535.7	1639.6	1875.7	2100.4	2388.8	2644.6	2738.3	2759.3	2764.7	2779.7
57.5°	1544.6	1556.8	1651.1	1883.9	2148.5	2510.9	2855.7	3020.6	3038.2	3067.4	3114.9
60°	1543.9	1556.8	1638.9	1865.6	2197.4	2662.3	3184.1	3460.3	3549.9	3579.8	3647.6
62.5°	1480.8	1495.7	1579.2	1809.9	2259.8	2855.7	3672.8	4097.6	4212.9	4267.2	4340.5
65°	1342.3	1353.2	1431.2	1668.8	2242.2	3046.4	4081.3	4611.3	4716.5	4795.9	4926.9
67°	1219.5	1226.3	1287.4	1501.8	2069.8	3053.2	4210.2	4738.9	4830.5	4914.6	5049.7
67.5°	1188.3	1202.5	1250.0	1450.9	2005.4	3014.5	4201.4	4719.2	4812.9	4900.4	5042.9
70°	967.0	987.4	1011.2	1146.2	1576.5	2536.0	3889.9	4378.5	4460.6	4542.1	4740.9
72.5°	596.5	633.2	637.9	723.4	1026.1	1752.9	3147.5	3692.4	3754.2	3812.5	4016.1
75°	351.5	357.0	373.9	443.1	601.9	1047.8	2111.9	2743.0	2800.0	2828.5	2988.0
77.5°	196.1	201.6	215.8	275.5	462.8	705.8	1229.7	1611.7	1646.4	1682.3	1656.5
80°	81.4	88.9	95.7	111.3	216.5	557.2	845.6	1024.7	1047.1	1068.2	1094.6
82.5°	39.4	42.1	51.6	59.0	78.7	228.7	663.0	888.3	914.8	945.3	1007.1
85°	18.3	20.4	28.5	33.9	38.0	57.7	221.9	432.3	468.9	475.7	487.9
87.5°	1.4	1.4	3.4	4.8	6.8	7.5	23.1	32.6	36.6	33.3	42.1
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°	675.2	675.2	675.2	675.2	675.2	675.2	675.2	675.2	675.2	675.2	675.2
2.5°	689.5	688.8	687.5	687.5	686.8	686.8	686.8	685.4	685.4	685.4	684.7
5°	707.8	707.1	705.1	705.1	703.7	703.7	701.7	701.0	699.7	699.7	699.0
7.5°	731.6	730.9	728.2	728.2	726.1	725.5	724.1	722.1	722.1	720.7	719.3
10°	764.1	762.1	761.4	758.0	758.7	757.4	756.0	754.0	752.6	751.2	749.9
12.5°	800.8	800.8	797.4	795.4	796.7	795.4	792.6	792.0	789.9	789.9	787.9
15°	835.4	835.4	834.0	831.3	832.0	830.0	829.3	827.9	825.2	825.9	825.2
17.5°	865.3	865.3	863.2	861.9	861.9	859.8	860.5	859.1	857.8	857.1	855.1
20°	889.0	889.0	887.6	886.3	887.0	887.0	884.9	884.9	884.9	883.6	883.6
22.5°	912.1	912.8	912.8	912.8	913.4	914.1	913.4	914.8	914.1	915.5	915.5
25°	942.6	944.7	946.0	946.0	949.4	950.1	950.8	952.8	952.8	954.8	955.5
27.5°	988.1	989.4	994.9	996.2	996.9	1002.3	1003.0	1005.7	1008.4	1009.1	1009.8
30°	1050.5	1053.9	1058.0	1060.7	1060.7	1067.5	1070.2	1068.8	1076.3	1078.3	1081.1
32.5°	1134.0	1136.7	1140.8	1143.5	1146.2	1149.6	1150.3	1153.7	1159.8	1165.2	1161.8
35°	1239.2	1246.0	1239.2	1246.6	1248.7	1253.4	1252.1	1256.1	1258.9	1260.9	1260.2
37.5°	1391.9	1388.5	1387.1	1384.4	1379.7	1395.9	1387.8	1387.1	1383.1	1394.6	1387.1
40°	1592.7	1594.8	1596.8	1586.0	1579.9	1579.9	1577.8	1570.4	1567.0	1577.1	1575.8
42.5°	1802.4	1804.5	1795.0	1788.2	1772.6	1770.5	1761.0	1759.0	1755.6	1761.0	1755.6
45°	1993.1	1994.5	1973.5	1976.9	1964.6	1966.7	1951.7	1957.9	1949.7	1955.1	1965.3
47.5°	2206.2	2208.9	2190.6	2198.1	2185.9	2178.4	2177.7	2181.8	2173.0	2178.4	2181.1
50°	2399.6	2396.2	2386.7	2388.8	2383.4	2384.7	2376.6	2384.0	2373.9	2384.7	2383.4
52.5°	2571.3	2567.3	2565.2	2572.0	2567.3	2567.3	2562.5	2565.9	2567.3	2583.5	2586.9
55°	2779.7	2783.1	2786.5	2798.7	2804.1	2795.3	2804.1	2821.1	2821.7	2860.4	2881.5
57.5°	3114.2	3138.0	3150.2	3157.7	3189.6	3186.2	3206.5	3247.2	3251.3	3340.9	3393.2
60°	3697.9	3739.9	3780.0	3758.3	3822.7	3842.4	3854.6	3930.6	3954.4	4039.2	4084.7
62.5°	4434.9	4439.6	4502.0	4482.4	4519.0	4510.2	4525.1	4559.7	4590.9	4660.8	4703.6
65°	4949.3	4971.7	4996.1	4971.0	4970.3	4940.4	4921.4	4920.8	4939.8	4954.7	5002.2
67°	5089.1	5111.4	5117.6	5099.2	5072.8	5034.8	4999.5	4981.2	4968.9	4975.7	5005.6
67.5°	5087.7	5108.7	5116.2	5098.6	5061.9	5030.0	4992.7	4971.7	4955.4	4958.8	4983.9
70°	4798.6	4844.1	4868.5	4873.9	4869.2	4813.5	4781.6	4762.6	4749.1	4715.8	4713.8
72.5°	4065.7	4120.6	4139.6	4170.2	4183.8	4101.6	4067.0	4088.1	4040.6	3935.4	3940.1
75°	2985.3	2989.4	2925.6	2913.4	2867.9	2681.9	2626.3	2575.4	2494.0	2367.1	2247.6
77.5°	1556.1	1555.4	1482.1	1444.8	1390.5	1278.5	1273.1	1182.2	1118.4	1002.3	960.3
80°	1105.5	1123.1	1147.6	1159.8	1140.8	1097.3	1037.6	973.2	899.2	826.6	739.7
82.5°	1028.1	1039.0	1051.9	1004.4	977.9	916.8	871.4	777.7	725.5	642.7	555.1
85°	500.2	533.4	507.6	477.8	467.6	365.8	353.6	295.2	268.1	220.6	205.6
87.5°	31.9	39.4	35.3	31.9	27.8	15.6	21.0	14.9	15.6	11.5	10.2
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°	675.2	675.2	675.2	675.2	675.2	675.2	675.2	675.2	675.2	675.2	675.2
2.5°	684.7	684.1	683.4	682.7	682.0	682.0	681.3	680.7	680.0	678.6	678.6
5°	697.6	697.6	697.0	695.6	695.6	694.2	692.2	691.5	691.5	690.2	688.8
7.5°	718.7	718.0	716.6	716.0	714.6	713.2	711.9	710.5	709.8	707.8	707.1
10°	750.6	749.2	745.8	744.5	743.8	742.4	741.1	739.7	737.7	736.3	735.6
12.5°	786.5	785.9	783.1	784.5	781.1	779.7	778.4	775.0	776.4	773.6	772.3
15°	822.5	823.2	821.8	821.8	819.1	817.1	815.7	813.0	812.3	811.0	809.6
17.5°	854.4	855.8	853.7	852.4	851.0	849.6	846.9	844.2	844.2	841.5	840.1
20°	883.6	884.9	884.3	882.9	880.9	880.2	878.8	876.8	876.8	875.4	873.4
22.5°	916.8	917.5	917.5	916.8	914.8	915.5	914.1	912.1	912.8	910.0	910.0
25°	956.9	958.2	959.6	960.3	958.9	959.6	958.2	956.9	956.2	956.9	956.2
27.5°	1011.8	1013.2	1017.3	1013.9	1017.3	1017.9	1015.9	1013.2	1015.2	1018.6	1016.6
30°	1084.5	1083.1	1088.5	1089.2	1088.5	1089.2	1087.8	1085.8	1087.2	1093.3	1089.9
32.5°	1165.9	1168.6	1170.0	1171.3	1173.4	1176.1	1174.0	1172.0	1175.4	1173.4	1178.1
35°	1264.3	1270.4	1272.4	1270.4	1271.8	1276.5	1275.8	1276.5	1283.3	1276.5	1285.3
37.5°	1388.5	1394.6	1399.3	1396.6	1400.0	1400.0	1405.4	1420.4	1410.9	1423.1	1432.6
40°	1569.0	1578.5	1579.2	1578.5	1581.9	1586.0	1591.4	1607.7	1596.8	1609.7	1618.5
42.5°	1754.9	1766.5	1770.5	1763.8	1771.2	1780.0	1780.7	1795.0	1795.7	1797.7	1802.4
45°	1964.6	1974.8	1983.0	1979.6	1980.2	1991.8	1989.1	2002.6	1992.5	1992.5	1995.2
47.5°	2187.9	2197.4	2202.8	2208.3	2201.5	2211.7	2216.4	2213.7	2201.5	2198.8	2182.5
50°	2391.5	2399.6	2407.8	2422.7	2422.0	2426.8	2430.2	2418.0	2415.2	2400.3	2382.0
52.5°	2607.3	2628.3	2646.7	2677.9	2682.6	2698.9	2692.8	2672.4	2669.1	2644.6	2620.2
55°	2907.9	2968.3	2994.8	3043.0	3075.6	3074.9	3061.3	3057.9	3032.1	2983.3	2954.1
57.5°	3431.2	3525.5	3571.0	3633.4	3643.6	3637.5	3619.8	3588.6	3543.8	3461.7	3408.8
60°	4186.5	4244.8	4297.8	4312.7	4320.2	4308.6	4246.9	4177.7	4090.1	3976.8	3882.4
62.5°	4757.2	4816.9	4856.3	4850.2	4803.4	4744.3	4654.1	4538.0	4415.2	4288.3	4147.1
65°	5047.7	5072.8	5066.7	5019.2	4939.1	4835.9	4704.3	4561.1	4416.5	4266.6	4120.0
67°	5032.0	5032.7	4991.3	4899.0	4796.6	4666.9	4506.1	4350.0	4180.4	4022.9	3848.5
67.5°	5004.2	5001.5	4943.8	4842.7	4732.1	4598.4	4431.5	4269.9	4094.2	3935.4	3754.9
70°	4689.3	4651.3	4521.0	4359.5	4205.5	4025.0	3849.9	3664.6	3466.4	3330.0	3122.4
72.5°	3853.3	3725.0	3500.4	3331.4	3166.5	2930.3	2821.1	2591.0	2451.9	2365.0	2208.3
75°	2231.3	2124.1	1950.4	1792.3	1712.2	1572.4	1505.9	1336.9	1301.6	1300.3	1246.0
77.5°	851.7	743.1	631.1	508.3	432.3	343.4	302.7	270.8	246.3	263.3	238.9
80°	638.6	525.3	410.6	298.6	213.1	157.4	135.0	124.9	118.8	114.0	110.6
82.5°	475.7	375.3	291.1	190.0	133.0	100.4	86.9	81.4	78.7	74.0	69.9
85°	160.8	128.9	101.8	70.6	55.6	45.5	42.1	40.7	38.7	35.3	33.3
87.5°	8.8	8.1	8.8	6.8	8.1	6.8	7.5	7.5	7.5	6.8	6.8
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	675.2	675.2	675.2	675.2	675.2	675.2	675.2	675.2	675.2	675.2	675.2
2.5°	678.0	678.0	678.0	676.6	674.6	670.5	666.4	663.0	659.6	657.6	656.2
5°	688.1	686.8	686.1	685.4	680.7	672.5	665.1	658.3	651.5	646.1	644.0
7.5°	706.5	703.7	703.1	701.0	694.9	682.7	671.8	661.0	651.5	644.0	640.6
10°	734.3	734.3	730.2	727.5	720.7	704.4	688.8	674.6	661.7	653.5	651.5
12.5°	769.6	769.6	766.2	764.1	756.0	735.0	716.0	699.0	686.8	678.6	678.0
15°	806.2	805.5	802.8	800.1	791.3	768.9	749.9	735.0	724.8	715.3	712.6
17.5°	838.8	838.8	835.4	832.7	823.9	804.9	787.9	777.0	765.5	745.8	730.9
20°	871.4	872.0	869.3	866.6	859.1	842.9	835.4	824.5	798.7	756.0	720.7
22.5°	907.3	910.0	906.7	903.9	897.8	891.0	888.3	862.5	808.2	739.7	688.1
25°	953.5	958.2	954.2	952.8	949.4	951.4	943.3	883.6	794.7	704.4	639.9
27.5°	1016.6	1016.6	1017.3	1017.3	1015.9	1023.4	993.5	884.3	764.8	659.0	582.3
30°	1090.6	1094.6	1093.3	1093.3	1098.7	1103.5	1021.3	869.3	726.8	602.6	511.7
32.5°	1179.5	1182.9	1184.2	1178.1	1199.8	1175.4	1031.5	842.2	680.0	532.7	427.5
35°	1286.7	1291.4	1294.8	1295.5	1309.8	1237.8	1026.1	802.1	612.8	445.2	335.2
37.5°	1426.5	1436.0	1443.4	1446.8	1447.5	1290.8	1011.2	749.2	525.3	347.5	249.7
40°	1612.4	1622.6	1620.6	1627.4	1588.7	1322.0	977.2	672.5	416.7	255.2	192.7
42.5°	1791.6	1792.9	1795.7	1789.6	1710.8	1338.3	929.7	578.9	312.2	190.7	164.9
45°	1991.8	1980.2	1967.4	1957.9	1823.5	1344.4	864.6	464.9	220.6	160.2	152.7
47.5°	2179.8	2164.2	2137.7	2110.5	1923.9	1334.9	781.1	348.1	167.6	146.6	144.5
50°	2364.4	2335.2	2297.8	2266.6	2020.3	1320.6	688.8	251.1	146.6	139.8	137.8
52.5°	2593.0	2544.2	2495.3	2454.6	2145.8	1298.2	591.8	190.7	137.8	134.4	131.7
55°	2906.6	2838.7	2760.0	2703.0	2316.2	1264.3	490.0	161.5	133.7	131.0	126.9
57.5°	3340.9	3239.1	3150.2	3057.2	2548.9	1229.7	402.4	150.0	133.0	128.9	123.5
60°	3784.7	3662.6	3549.2	3416.2	2786.5	1195.1	341.4	148.6	135.0	128.9	120.8
62.5°	4015.5	3889.2	3752.8	3617.8	2888.9	1113.6	299.3	150.7	139.8	131.0	120.8
65°	3962.5	3808.5	3670.0	3532.3	2770.2	959.6	253.1	153.4	149.3	139.1	122.8
67°	3696.5	3535.7	3402.7	3271.0	2505.5	803.5	217.2	156.1	159.5	148.6	126.9
67.5°	3602.9	3442.0	3311.0	3182.8	2427.5	770.9	208.3	157.4	161.5	151.3	128.3
70°	2987.3	2869.3	2730.1	2631.1	1965.3	570.7	171.0	160.2	173.7	166.9	134.4
72.5°	2149.9	2037.3	1932.7	1877.8	1447.5	399.0	143.9	157.4	181.2	175.8	137.1
75°	1142.8	1136.0	1098.0	1125.2	895.8	260.6	126.9	147.3	173.1	160.8	127.6
77.5°	230.7	237.5	278.9	274.8	289.1	145.2	108.6	126.2	133.7	118.1	103.8
80°	107.2	105.2	103.2	104.5	102.5	93.0	88.2	99.1	93.0	76.0	69.2
82.5°	66.5	65.1	63.1	62.4	69.2	74.0	77.4	78.0	61.8	52.9	50.9
85°	31.9	31.9	31.2	32.6	40.7	60.4	65.1	57.7	41.4	38.0	36.0
87.5°	6.1	6.1	6.8	6.1	8.1	14.3	16.3	19.0	15.6	16.3	18.3
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):

	165°	175°	180°
0°	675.2	675.2	675.2
2.5°	654.9	653.5	653.5
5°	641.3	640.6	640.6
7.5°	637.9	638.6	637.9
10°	650.8	650.1	652.8
12.5°	679.3	681.3	680.7
15°	709.2	710.5	710.5
17.5°	718.0	713.2	712.6
20°	694.9	686.1	684.1
22.5°	651.5	635.2	635.9
25°	596.5	576.8	578.2
27.5°	532.7	511.7	511.0
30°	456.0	433.0	421.4
32.5°	363.7	335.9	335.9
35°	273.5	251.1	242.9
37.5°	207.7	194.8	190.7
40°	173.1	166.9	165.6
42.5°	157.4	155.4	154.7
45°	149.3	147.9	147.3
47.5°	141.8	141.2	140.5
50°	136.4	135.7	135.0
52.5°	131.7	130.3	129.6
55°	124.9	124.9	124.9
57.5°	120.8	120.8	120.1
60°	116.7	116.0	116.0
62.5°	113.3	112.0	112.7
65°	111.3	109.3	109.3
67°	109.9	105.9	105.9
67.5°	109.9	104.5	104.5
70°	107.9	99.1	97.7
72.5°	105.9	93.0	90.9
75°	100.4	88.2	86.2
77.5°	86.2	78.7	77.4
80°	66.5	57.7	59.0
82.5°	48.2	41.4	40.7
85°	34.6	29.9	29.9
87.5°	18.3	15.6	16.3
90°	0.0	0.0	0.0

(END OF REPORT)