

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: P671448

Luminaire Tested: **CCP-SA-1D-835-U-SL3**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671448  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-835-U-SL3  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ SL3 distribution lens  
Light Source: (16) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

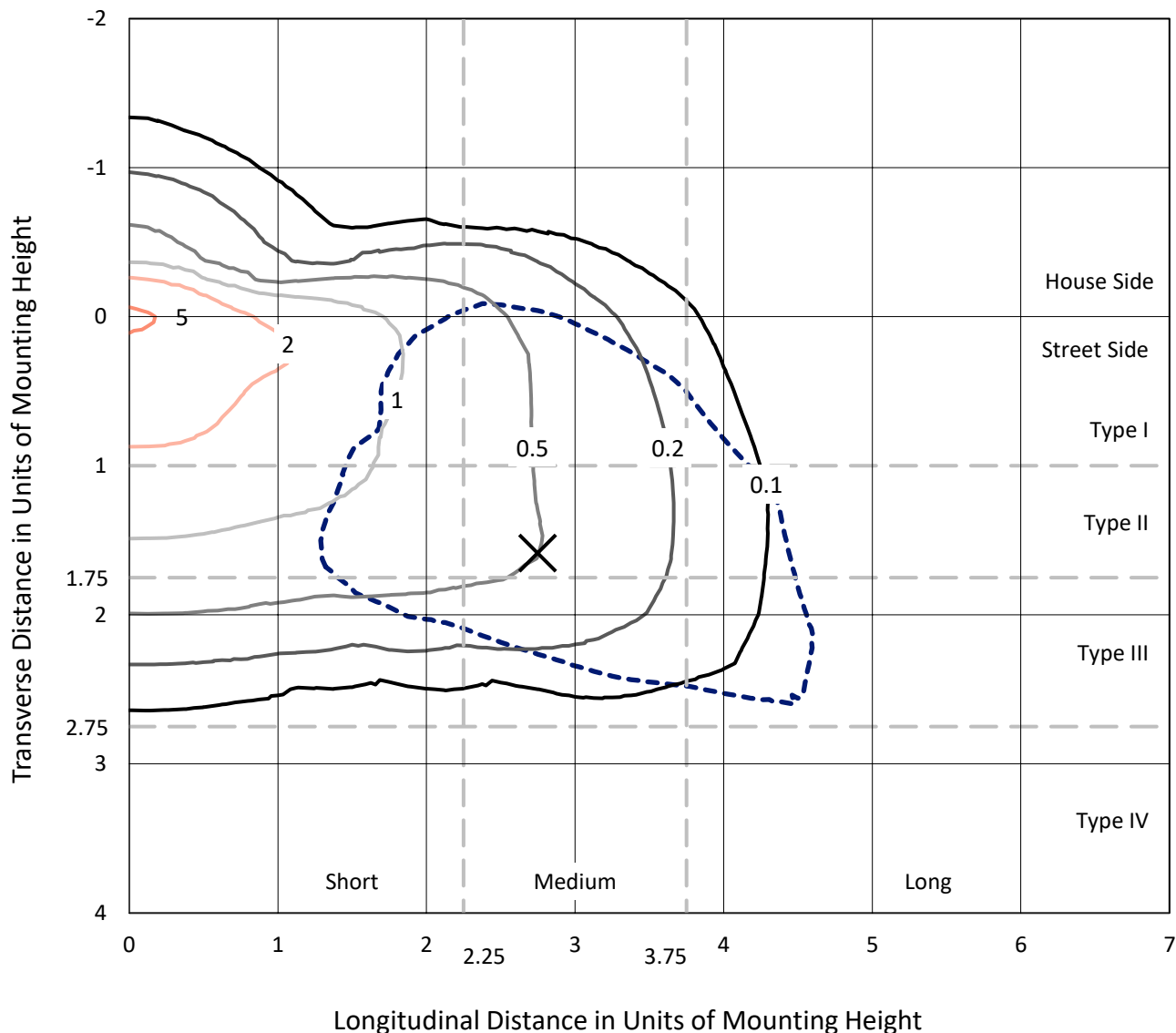
Lumens per Lamp: N/A  
Luminaire Lumens: 4543.6 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 44  
Input Voltage (V): 120  
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

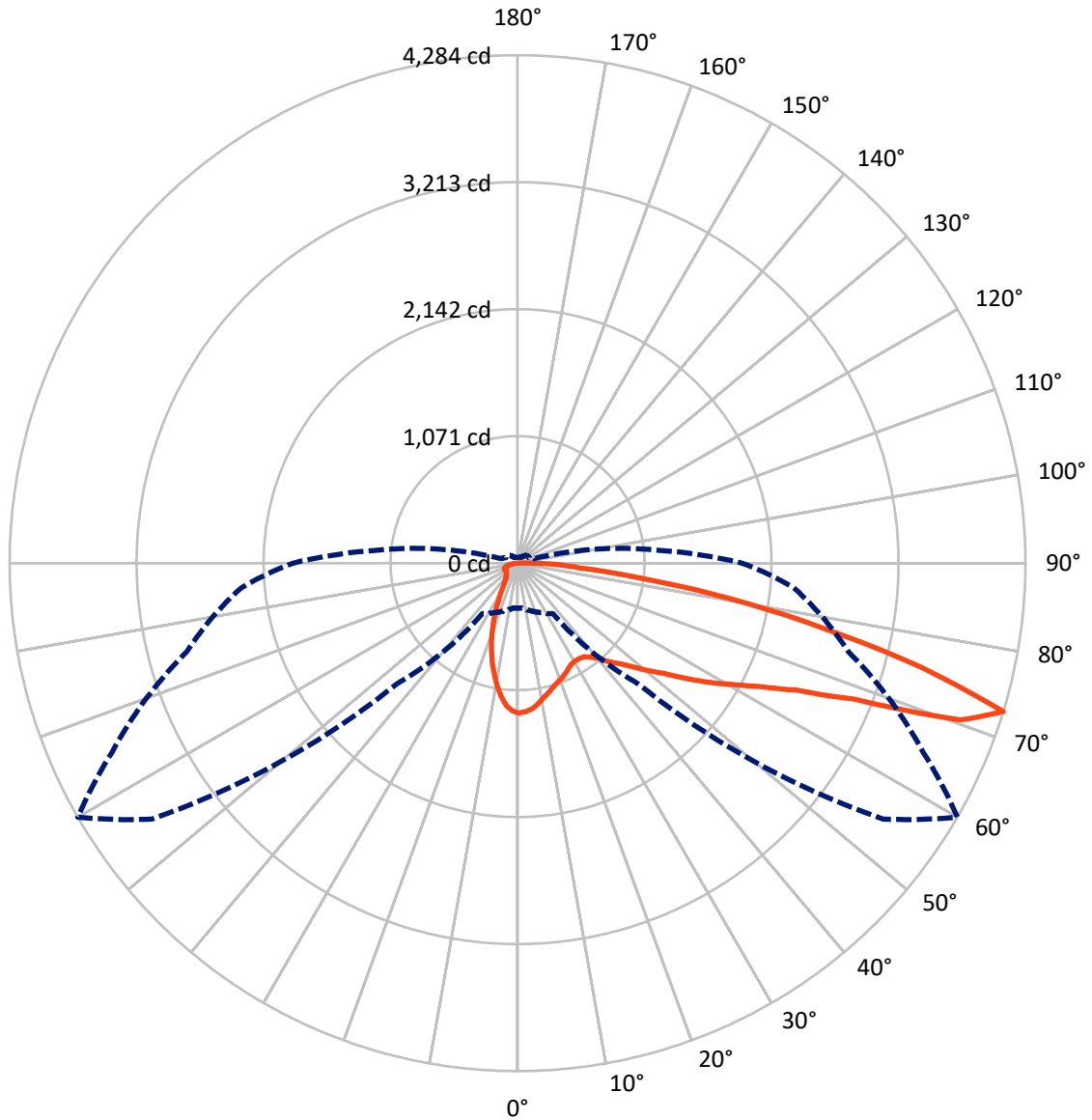
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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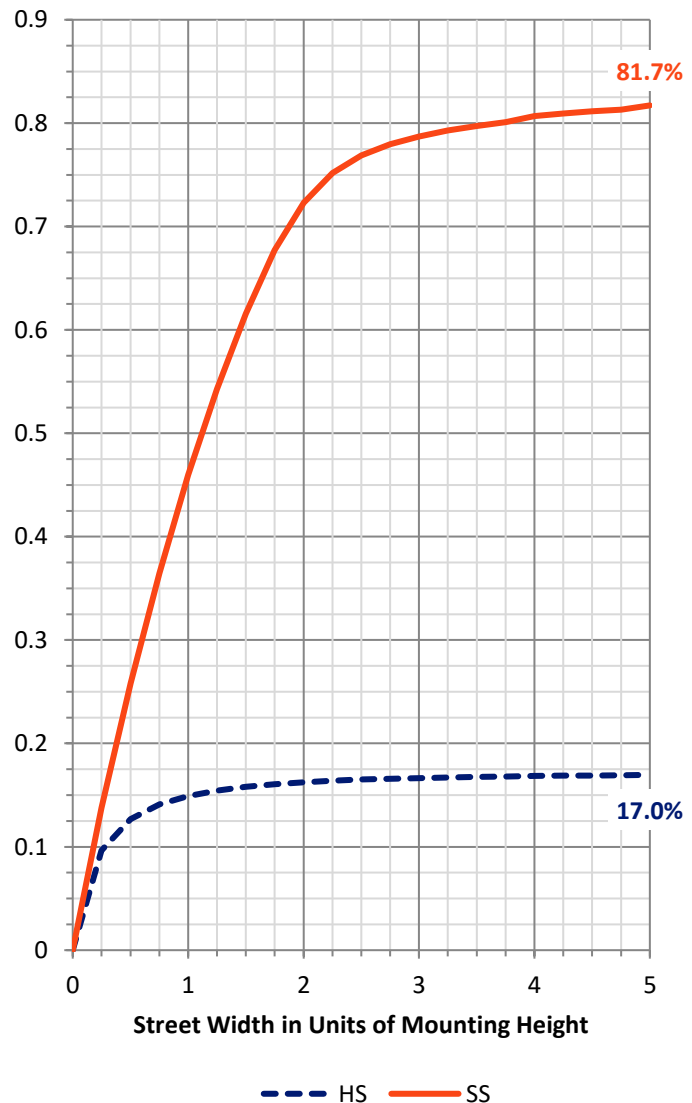
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	780.5	0.0	780.5
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	3763.1	0.0	3763.1
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	4543.6	0.0	4543.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.7	2.4
10°-20°	248.7	5.5
20°-30°	318.3	7.0
30°-40°	407.1	9.0
40°-50°	558.4	12.3
50°-60°	807.7	17.8
60°-70°	1107.9	24.4
70°-80°	831.4	18.3
80°-90°	154.5	3.4
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°	4543.6	100.0
0°-180°	4543.6	100.0



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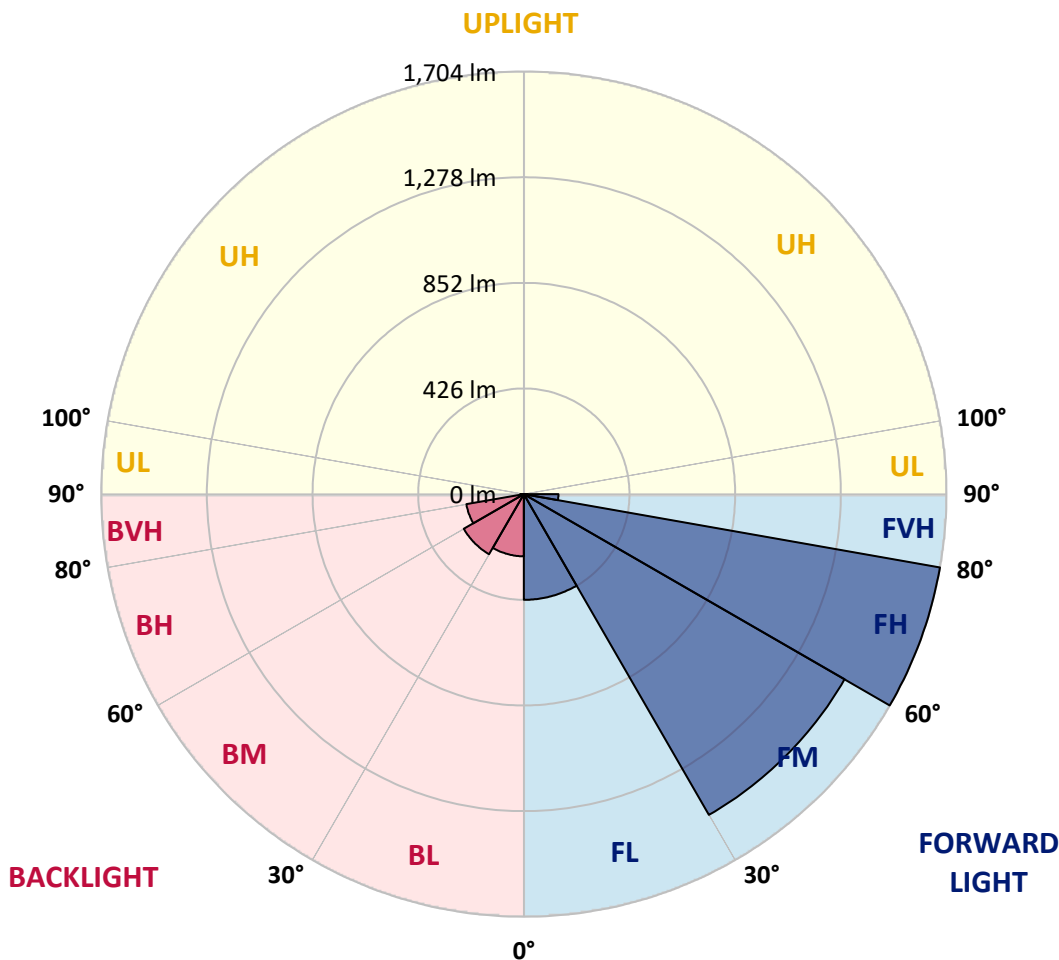
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	426.0	9.4			
FM (30°-60°)	1493.5	32.9			
FH (60°-80°)	1704.1	37.5			G1/1800
FVH (80°-90°)	139.5	3.1			G2/225
BL (0°-30°)	250.6	5.5	B1/500		
BM (30°-60°)	279.7	6.2	B1/1000		
BH (60°-80°)	235.2	5.2	B1/500		G1/500
BVH (80°-90°)	15.1	0.3			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1265.2	1265.2	1265.2	1265.2	1265.2	1265.2	1265.2	1265.2	1265.2	1265.2	1265.2
2.5°	1238.1	1249.9	1253.3	1253.3	1263.5	1251.6	1268.6	1255.0	1258.4	1263.5	1260.1
5°	1178.9	1199.2	1187.4	1209.4	1200.9	1216.1	1236.4	1236.4	1231.3	1241.5	1233.0
7.5°	1121.4	1114.6	1134.9	1134.9	1148.5	1168.8	1185.7	1202.6	1204.3	1207.7	1206.0
10°	1043.6	1052.1	1062.2	1075.7	1092.6	1112.9	1148.5	1162.0	1165.4	1185.7	1180.6
12.5°	979.3	991.2	997.9	1025.0	1040.2	1069.0	1109.6	1128.2	1129.9	1158.6	1158.6
15°	932.0	938.7	954.0	964.1	997.9	1038.5	1077.4	1094.3	1112.9	1143.4	1134.9
17.5°	899.8	908.3	915.1	928.6	960.7	994.5	1055.4	1065.6	1087.6	1131.6	1121.4
20°	881.2	882.9	893.1	901.5	930.3	962.4	1016.5	1043.6	1072.4	1111.3	1101.1
22.5°	884.6	877.8	876.1	888.0	893.1	923.5	989.5	1018.2	1058.8	1104.5	1087.6
25°	891.4	893.1	889.7	879.5	881.2	908.3	952.3	989.5	1035.1	1102.8	1069.0
27.5°	908.3	916.7	903.2	893.1	882.9	893.1	938.7	965.8	1016.5	1111.3	1067.3
30°	925.2	933.7	930.3	915.1	894.8	891.4	923.5	957.3	1006.4	1118.0	1067.3
32.5°	950.6	962.4	950.6	955.6	932.0	916.7	928.6	959.0	1016.5	1141.7	1069.0
35°	979.3	989.5	992.9	981.0	975.9	947.2	954.0	969.2	1026.7	1168.8	1085.9
37.5°	1011.5	1023.3	1033.4	1035.1	1018.2	1001.3	997.9	1006.4	1052.1	1216.1	1104.5
40°	1033.4	1040.2	1060.5	1077.4	1082.5	1058.8	1057.1	1057.1	1097.7	1258.4	1138.3
42.5°	1070.7	1067.3	1096.0	1126.5	1134.9	1121.4	1124.8	1138.3	1162.0	1319.3	1192.4
45°	1089.3	1085.9	1119.7	1170.5	1209.4	1202.6	1206.0	1211.0	1233.0	1415.7	1283.8
47.5°	1114.6	1118.0	1167.1	1224.6	1265.2	1288.9	1307.5	1305.8	1322.7	1513.8	1385.3
50°	1140.0	1146.8	1206.0	1266.9	1337.9	1378.5	1405.6	1424.2	1441.1	1617.0	1502.0
52.5°	1189.1	1195.8	1261.8	1327.8	1419.1	1478.3	1545.9	1544.3	1545.9	1720.2	1618.7
55°	1260.1	1261.8	1300.7	1376.8	1500.3	1608.5	1701.6	1711.7	1682.9	1848.7	1752.3
57.5°	1341.3	1348.1	1381.9	1439.4	1564.6	1733.7	1875.8	1896.1	1818.3	1953.6	1874.1
60°	1417.4	1422.5	1474.9	1540.9	1676.2	1891.0	2051.7	2075.4	1990.8	2082.1	2000.9
62.5°	1331.1	1356.5	1449.5	1600.1	1872.4	2129.5	2274.9	2290.2	2158.2	2212.4	2136.2
65°	1065.6	1082.5	1216.1	1459.7	1885.9	2562.5	2620.0	2579.4	2388.3	2379.8	2340.9
67.5°	593.7	607.2	698.6	954.0	1588.2	2724.9	3362.5	3064.8	2745.2	2631.8	2618.3
70°	468.5	471.9	483.7	536.2	881.2	2401.8	3947.7	3961.3	3328.7	2978.6	2677.5
72.5°	380.6	378.9	414.4	460.1	521.0	1441.1	3763.4	4284.3	3775.2	2887.2	2332.4
75°	290.9	296.0	341.7	407.6	477.0	678.3	2807.7	3524.9	3536.7	2691.0	1967.1
77.5°	221.6	223.3	274.0	360.3	466.8	478.7	1831.8	2626.8	2638.6	2083.8	1084.2
80°	165.8	165.8	208.0	304.5	455.0	441.5	1128.2	1821.6	1649.1	732.4	236.8
82.5°	94.7	101.5	138.7	231.7	412.7	424.5	636.0	1043.6	696.9	199.6	109.9
85°	50.7	52.4	84.6	155.6	340.0	405.9	485.4	519.3	277.4	106.6	50.7
87.5°	18.6	18.6	38.9	79.5	214.8	301.1	385.6	331.5	159.0	49.1	25.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1265.2	1265.2	1265.2	1265.2	1265.2	1265.2	1265.2	1265.2	1265.2	1265.2	1265.2
2.5°	1263.5	1256.7	1251.6	1256.7	1238.1	1229.7	1239.8	1234.7	1224.6	1219.5	1216.1
5°	1238.1	1229.7	1221.2	1216.1	1195.8	1175.5	1165.4	1145.1	1128.2	1133.2	1123.1
7.5°	1211.0	1202.6	1177.2	1153.5	1112.9	1072.4	1053.7	1025.0	1014.8	1006.4	1001.3
10°	1177.2	1162.0	1123.1	1075.7	1016.5	970.9	923.5	889.7	854.2	838.9	844.0
12.5°	1134.9	1126.5	1065.6	992.9	910.0	833.9	778.0	723.9	676.6	651.2	644.4
15°	1116.3	1091.0	1003.0	906.6	801.7	707.0	624.1	529.4	473.6	446.5	446.5
17.5°	1096.0	1048.7	943.8	811.9	691.8	570.0	453.3	367.0	323.1	307.8	307.8
20°	1063.9	1011.5	874.5	722.2	576.8	429.6	324.7	277.4	263.9	253.7	255.4
22.5°	1040.2	975.9	810.2	634.3	456.7	319.7	255.4	240.2	235.1	231.7	233.4
25°	1013.2	933.7	742.5	539.6	358.6	252.0	221.6	214.8	218.2	219.9	219.9
27.5°	991.2	898.1	673.2	438.1	270.6	213.1	199.6	197.9	204.7	208.0	209.7
30°	975.9	866.0	605.5	345.0	216.5	189.4	182.7	182.7	191.1	194.5	196.2
32.5°	960.7	838.9	532.8	263.9	184.4	169.1	167.4	169.1	174.2	174.2	175.9
35°	965.8	813.6	463.4	213.1	165.8	155.6	155.6	155.6	157.3	159.0	159.0
37.5°	975.9	806.8	389.0	179.3	152.2	145.5	145.5	143.8	145.5	143.8	145.5
40°	986.1	796.7	321.4	159.0	143.8	138.7	137.0	133.6	131.9	131.9	133.6
42.5°	1028.4	810.2	263.9	145.5	137.0	133.6	128.5	125.2	123.5	123.5	123.5
45°	1082.5	835.6	218.2	138.7	131.9	123.5	120.1	118.4	115.0	116.7	118.4
47.5°	1163.7	874.5	191.1	133.6	126.9	116.7	113.3	109.9	109.9	113.3	113.3
50°	1270.2	938.7	174.2	128.5	121.8	111.6	106.6	104.9	104.9	109.9	109.9
52.5°	1385.3	1013.2	167.4	126.9	116.7	106.6	101.5	99.8	99.8	106.6	106.6
55°	1500.3	1104.5	172.5	126.9	113.3	101.5	96.4	93.0	94.7	99.8	99.8
57.5°	1627.1	1202.6	197.9	126.9	109.9	99.8	93.0	88.0	89.6	91.3	91.3
60°	1765.8	1331.1	241.9	126.9	108.2	96.4	88.0	81.2	81.2	82.9	82.9
62.5°	1906.2	1458.0	304.5	128.5	109.9	94.7	81.2	74.4	72.7	74.4	74.4
65°	2090.6	1661.0	367.0	128.5	115.0	91.3	76.1	67.7	66.0	66.0	67.7
67.5°	2349.4	1806.4	284.2	123.5	118.4	91.3	71.0	62.6	59.2	59.2	59.2
70°	2212.4	1524.0	181.0	115.0	113.3	94.7	67.7	57.5	54.1	52.4	52.4
72.5°	1894.4	1219.5	145.5	108.2	104.9	93.0	64.3	54.1	49.1	47.4	47.4
75°	1518.9	962.4	126.9	98.1	91.3	77.8	59.2	49.1	45.7	42.3	42.3
77.5°	744.2	402.6	96.4	86.3	77.8	59.2	52.4	45.7	40.6	37.2	37.2
80°	186.1	140.4	71.0	67.7	57.5	45.7	42.3	38.9	35.5	32.1	32.1
82.5°	99.8	82.9	50.7	45.7	38.9	32.1	32.1	30.4	28.8	25.4	23.7
85°	50.7	49.1	33.8	30.4	25.4	20.3	22.0	22.0	20.3	15.2	15.2
87.5°	27.1	27.1	16.9	13.5	11.8	10.1	10.1	10.1	8.5	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

(END OF REPORT)