

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: P677066

Luminaire Tested: **CCW-SA-2A-840-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677066  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-840-U-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (32) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

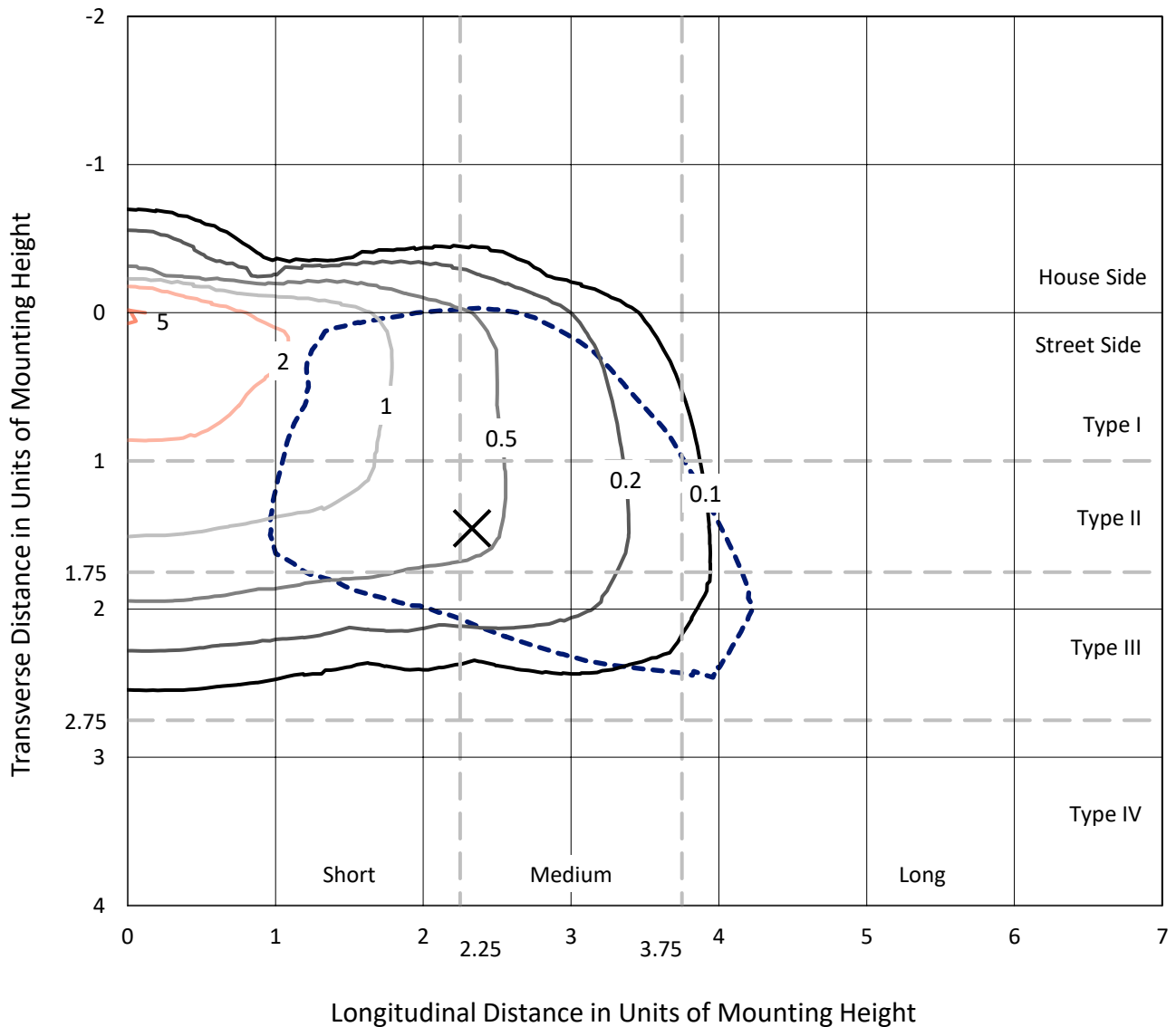
Lumens per Lamp: N/A  
Luminaire Lumens: 3855 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

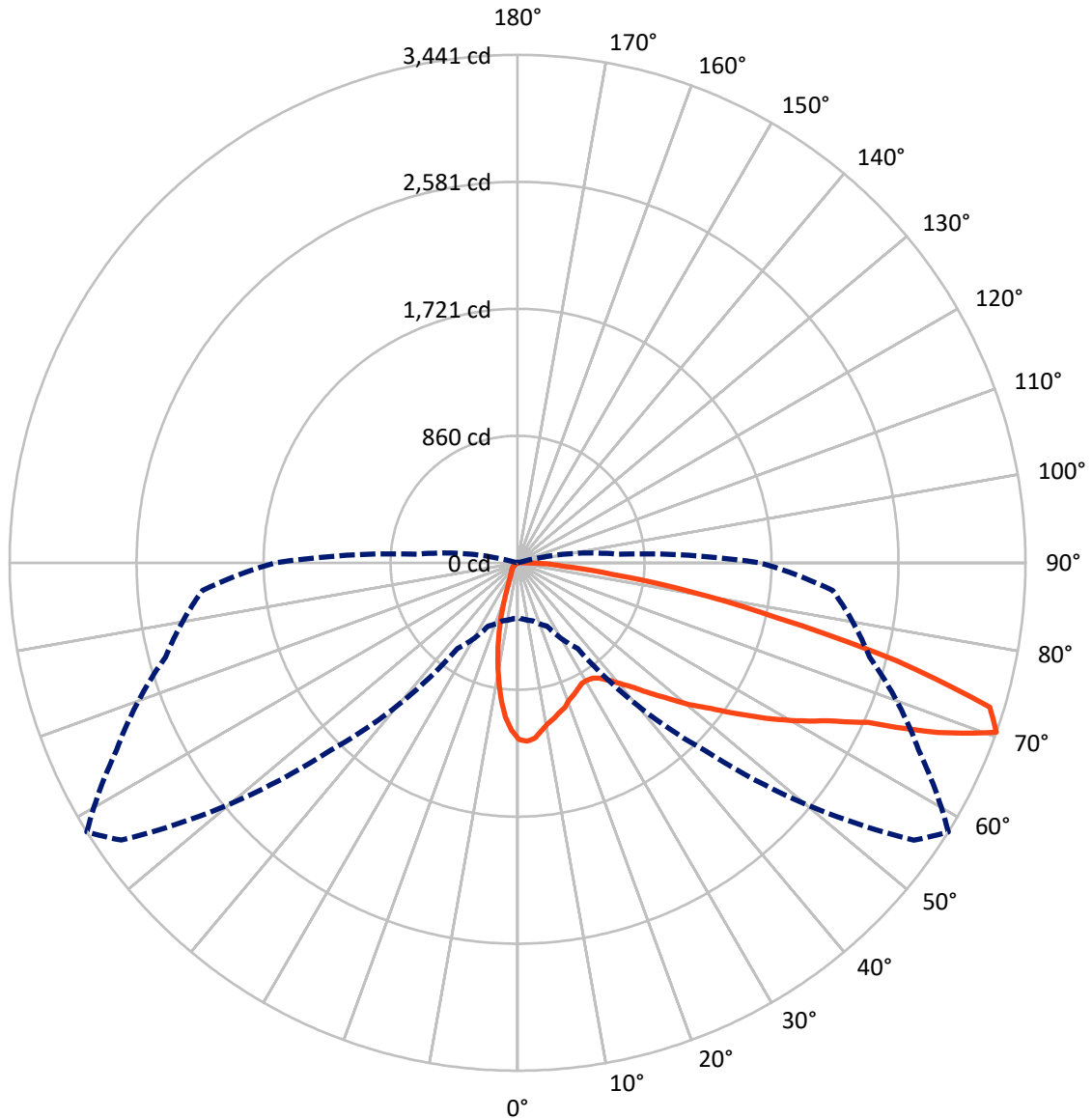
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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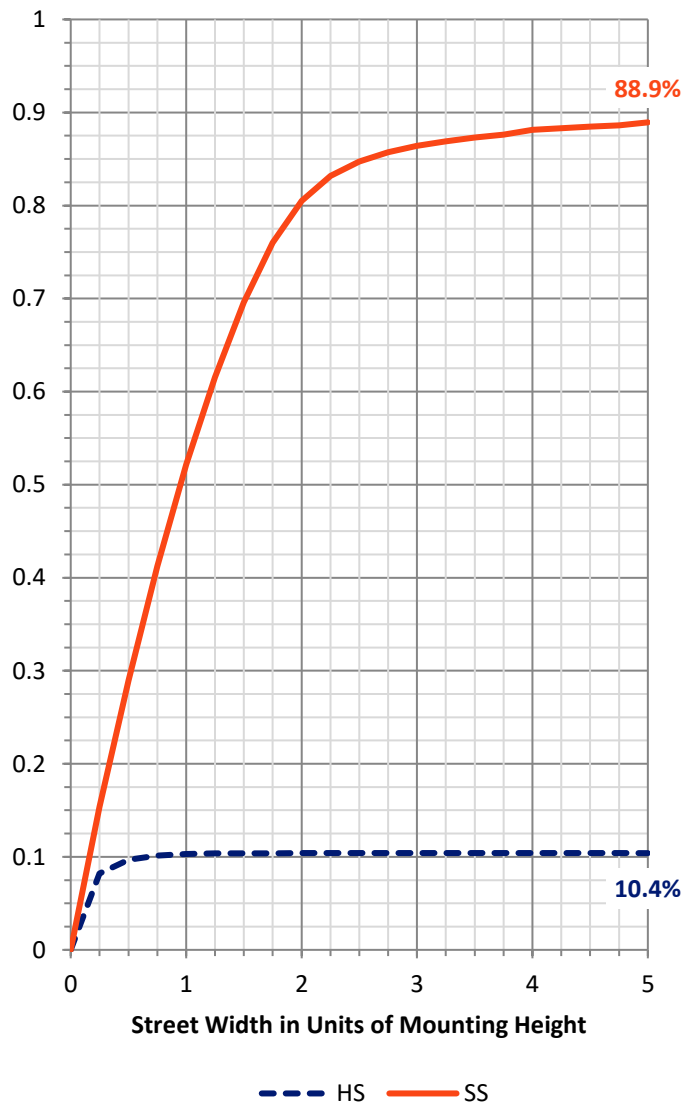
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	403.7	0.0	403.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	3451.3	0.0	3451.3
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	3855.0	0.0	3855.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.7	2.5
10°-20°	203.3	5.3
20°-30°	272.2	7.1
30°-40°	367.9	9.5
40°-50°	528.1	13.7
50°-60°	778.2	20.2
60°-70°	949.2	24.6
70°-80°	579.6	15.0
80°-90°	78.7	2.0
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°	3855.0	100.0
0°-180°	3855.0	100.0

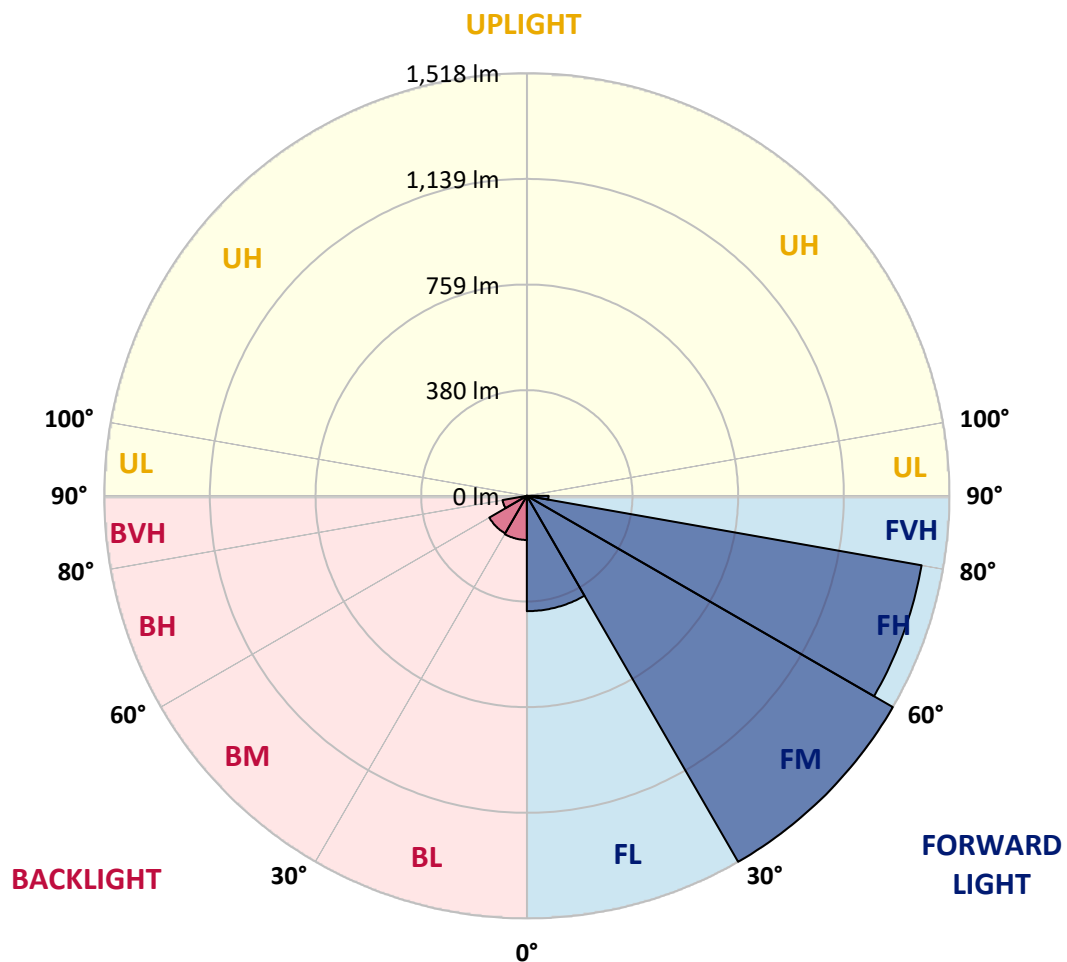


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	414.5	10.8			
FM (30°-60°)	1518.4	39.4			
FH (60°-80°)	1440.4	37.4			G1/1800
FVH (80°-90°)	78.0	2.0			G1/100
BL (0°-30°)	158.7	4.1	B1/500		
BM (30°-60°)	155.8	4.0	B0/220		
BH (60°-80°)	88.5	2.3	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7
2.5°	1218.4	1222.9	1212.1	1224.7	1213.0	1218.4	1212.1	1210.3	1211.2	1212.1	1204.8
5°	1161.5	1172.3	1176.8	1169.6	1186.8	1184.1	1194.9	1195.8	1191.3	1186.8	1187.7
7.5°	1086.4	1097.3	1101.8	1106.3	1123.5	1146.1	1160.6	1151.5	1158.7	1175.0	1150.6
10°	1032.2	1029.5	1028.6	1037.6	1070.2	1089.1	1113.6	1110.8	1128.9	1144.3	1124.4
12.5°	965.3	959.9	976.2	983.4	1012.3	1045.8	1064.7	1084.6	1102.7	1119.0	1096.4
15°	915.6	920.1	926.5	941.8	962.6	1006.9	1034.9	1053.9	1086.4	1094.6	1085.5
17.5°	875.8	879.5	888.5	896.6	922.8	965.3	1009.6	1032.2	1066.6	1088.2	1060.2
20°	876.7	865.9	865.9	874.0	888.5	939.1	986.1	993.3	1040.3	1077.4	1058.4
22.5°	877.6	874.0	865.9	865.0	871.3	907.5	955.4	971.6	1022.3	1065.6	1043.1
25°	890.3	876.7	877.6	865.0	867.7	885.8	923.7	948.1	1006.0	1072.0	1034.9
27.5°	901.1	907.5	894.8	889.4	874.0	873.1	904.8	925.5	997.9	1086.4	1040.3
30°	925.5	930.1	930.1	926.5	912.0	891.2	898.4	924.6	981.6	1083.7	1031.3
32.5°	966.2	958.1	968.9	963.5	944.5	912.0	918.3	931.9	991.5	1118.1	1045.8
35°	979.8	986.1	1000.6	988.8	982.5	963.5	950.9	960.8	1006.0	1152.4	1067.5
37.5°	1021.4	1012.3	1022.3	1048.5	1054.8	1020.5	996.1	1010.5	1060.2	1193.1	1087.3
40°	1025.0	1032.2	1050.3	1101.8	1108.1	1093.7	1073.8	1077.4	1114.5	1245.5	1137.1
42.5°	1043.1	1051.2	1088.2	1131.6	1166.0	1168.7	1154.2	1154.2	1185.9	1329.6	1192.2
45°	1078.3	1064.7	1112.6	1185.9	1235.6	1245.5	1264.5	1260.0	1285.3	1418.2	1295.2
47.5°	1091.9	1096.4	1148.8	1237.4	1294.3	1340.4	1372.1	1373.0	1385.6	1531.1	1429.0
50°	1136.1	1135.2	1198.5	1280.8	1364.8	1448.9	1510.3	1510.3	1509.4	1641.4	1543.8
52.5°	1194.9	1193.1	1241.9	1339.5	1448.9	1554.6	1636.0	1638.7	1659.5	1777.0	1675.8
55°	1290.7	1282.6	1329.6	1401.9	1532.9	1661.3	1802.3	1803.2	1786.9	1873.7	1770.7
57.5°	1371.2	1370.2	1409.1	1478.7	1626.9	1798.7	1962.3	1986.7	1935.2	1973.1	1846.6
60°	1350.4	1362.1	1442.6	1545.6	1726.4	1970.4	2134.9	2172.9	2090.6	2040.9	1903.5
62.5°	1221.1	1248.2	1335.9	1500.4	1810.4	2219.9	2372.6	2355.5	2172.0	2098.8	1973.1
65°	878.5	905.7	1014.1	1260.9	1712.8	2396.1	2685.4	2607.6	2316.6	2184.6	2066.2
67.5°	517.0	527.9	595.6	804.4	1280.8	2300.3	3065.0	3071.3	2601.3	2316.6	2227.1
70°	373.3	381.4	407.6	474.5	709.5	1803.2	3276.5	3441.0	2996.3	2468.4	2142.1
72.5°	286.5	286.5	330.8	395.0	451.9	1080.1	3015.3	3345.2	3082.2	2322.9	1726.4
75°	206.1	211.5	259.4	339.9	416.7	542.3	2221.7	2654.6	2612.1	1882.7	1205.7
77.5°	118.4	121.1	182.6	284.7	391.4	372.4	1373.0	1799.6	1850.2	1178.6	522.4
80°	60.6	62.4	102.1	225.1	354.3	324.5	818.9	1185.0	1005.1	342.6	121.1
82.5°	29.8	29.8	46.1	143.7	301.0	287.4	481.8	654.4	356.1	78.6	50.6
85°	9.9	10.8	20.8	81.3	217.8	173.5	294.7	310.9	119.3	29.8	28.0
87.5°	2.7	3.6	5.4	29.8	94.9	113.9	175.3	198.8	48.8	11.8	13.6
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7
2.5°	1177.7	1171.4	1164.2	1146.1	1131.6	1112.6	1100.0	1090.1	1071.1	1074.7	1066.6
5°	1166.0	1154.2	1112.6	1072.9	1036.7	981.6	943.6	919.2	899.3	879.5	893.9
7.5°	1145.2	1117.2	1052.1	978.0	901.1	828.8	756.5	713.1	681.5	652.6	651.7
10°	1109.9	1064.7	962.6	865.9	747.5	652.6	560.4	488.1	441.1	406.7	405.8
12.5°	1070.2	1023.2	894.8	737.5	601.1	467.3	357.0	280.2	235.9	208.8	205.2
15°	1044.9	976.2	809.9	623.7	454.6	304.6	197.9	150.0	132.9	126.5	126.5
17.5°	1012.3	933.7	725.8	505.3	315.4	176.3	128.3	115.7	114.8	113.0	111.2
20°	998.8	901.1	650.8	403.1	199.8	124.7	110.3	107.6	107.6	105.8	103.9
22.5°	962.6	854.1	571.2	295.6	132.9	109.4	103.9	100.3	98.5	96.7	98.5
25°	946.3	820.7	496.2	204.3	108.5	97.6	94.9	91.3	88.6	87.7	87.7
27.5°	935.5	787.3	423.0	141.9	95.8	89.5	84.1	81.3	77.7	74.1	74.1
30°	927.4	761.0	352.5	104.8	85.9	79.5	75.0	68.7	64.2	60.6	60.6
32.5°	916.5	730.3	282.0	89.5	77.7	71.4	63.3	57.8	51.5	48.8	48.8
35°	920.1	709.5	221.4	79.5	69.6	61.5	54.2	47.0	40.7	38.0	37.1
37.5°	927.4	694.2	168.1	71.4	62.4	53.3	45.2	37.1	33.4	29.8	29.8
40°	958.1	689.6	123.8	66.0	56.9	47.0	38.0	30.7	27.1	24.4	23.5
42.5°	1009.6	696.0	95.8	59.7	51.5	39.8	31.6	25.3	21.7	19.0	18.1
45°	1075.6	720.4	78.6	56.0	45.2	33.4	25.3	20.8	16.3	14.5	14.5
47.5°	1171.4	758.3	68.7	51.5	39.8	28.0	21.7	16.3	12.7	10.8	10.8
50°	1279.9	801.7	60.6	46.1	34.3	23.5	17.2	12.7	9.0	8.1	8.1
52.5°	1388.3	856.9	56.0	42.5	29.8	19.0	13.6	9.0	6.3	5.4	5.4
55°	1502.2	905.7	50.6	39.8	24.4	15.4	9.9	5.4	3.6	2.7	2.7
57.5°	1581.8	924.6	44.3	34.3	19.0	11.8	7.2	3.6	1.8	0.9	0.9
60°	1638.7	927.4	38.0	28.0	14.5	9.0	4.5	1.8	0.9	0.0	0.0
62.5°	1686.6	932.8	32.5	21.7	10.8	6.3	2.7	0.9	0.0	0.0	0.0
65°	1781.5	928.3	26.2	17.2	7.2	3.6	1.8	0.0	0.0	0.0	0.0
67.5°	1856.5	883.1	20.8	11.8	4.5	1.8	0.9	0.0	0.0	0.0	0.0
70°	1642.3	673.4	16.3	8.1	2.7	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	1289.8	449.2	10.8	4.5	1.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	846.0	223.3	8.1	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	329.0	58.8	5.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	79.5	19.9	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	34.3	7.2	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.8	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.8	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)