

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: P676978

Luminaire Tested: **CCW-SA-2A-730-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676978  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-730-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) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

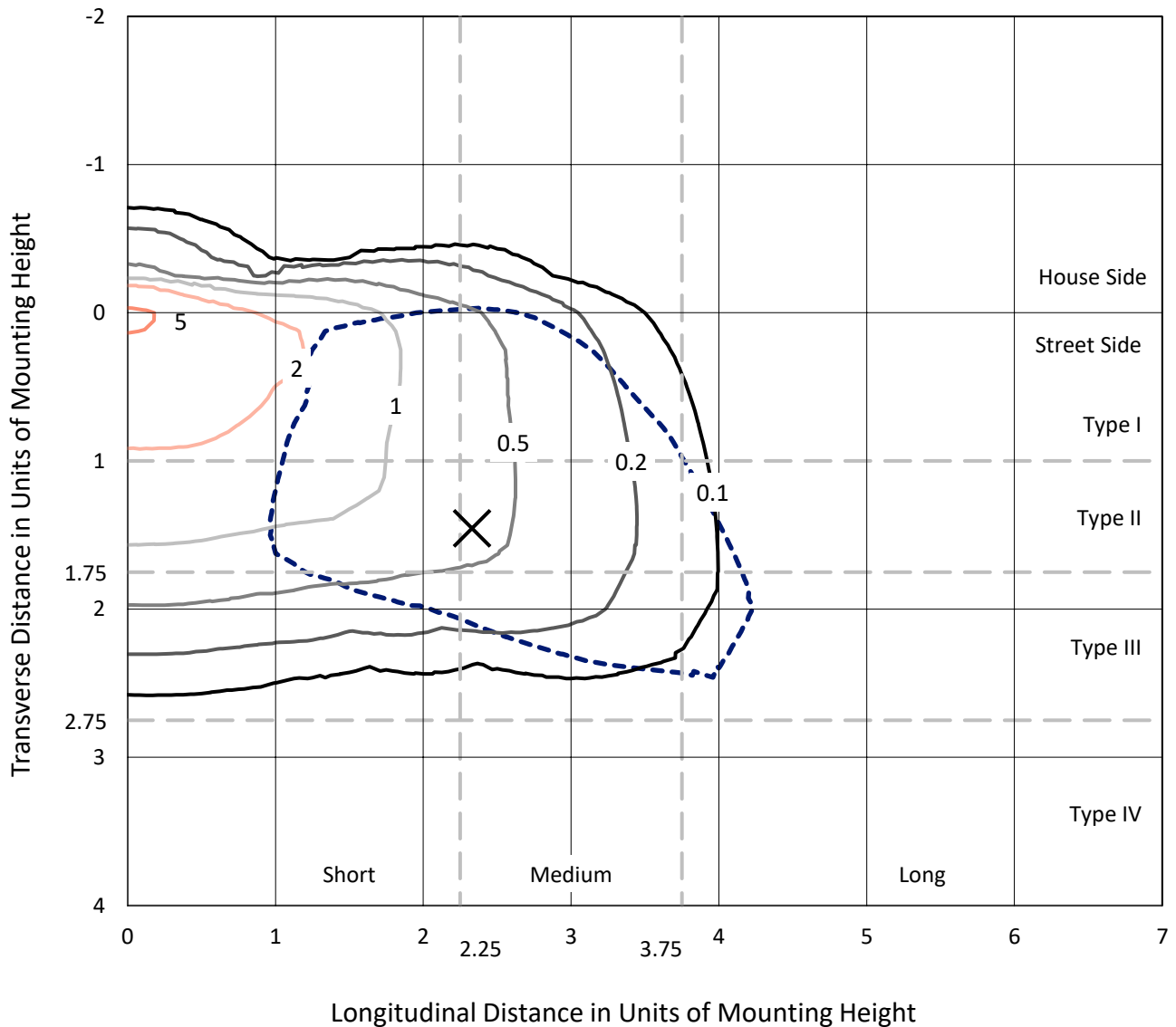
Lumens per Lamp: N/A  
Luminaire Lumens: 4117.3 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

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

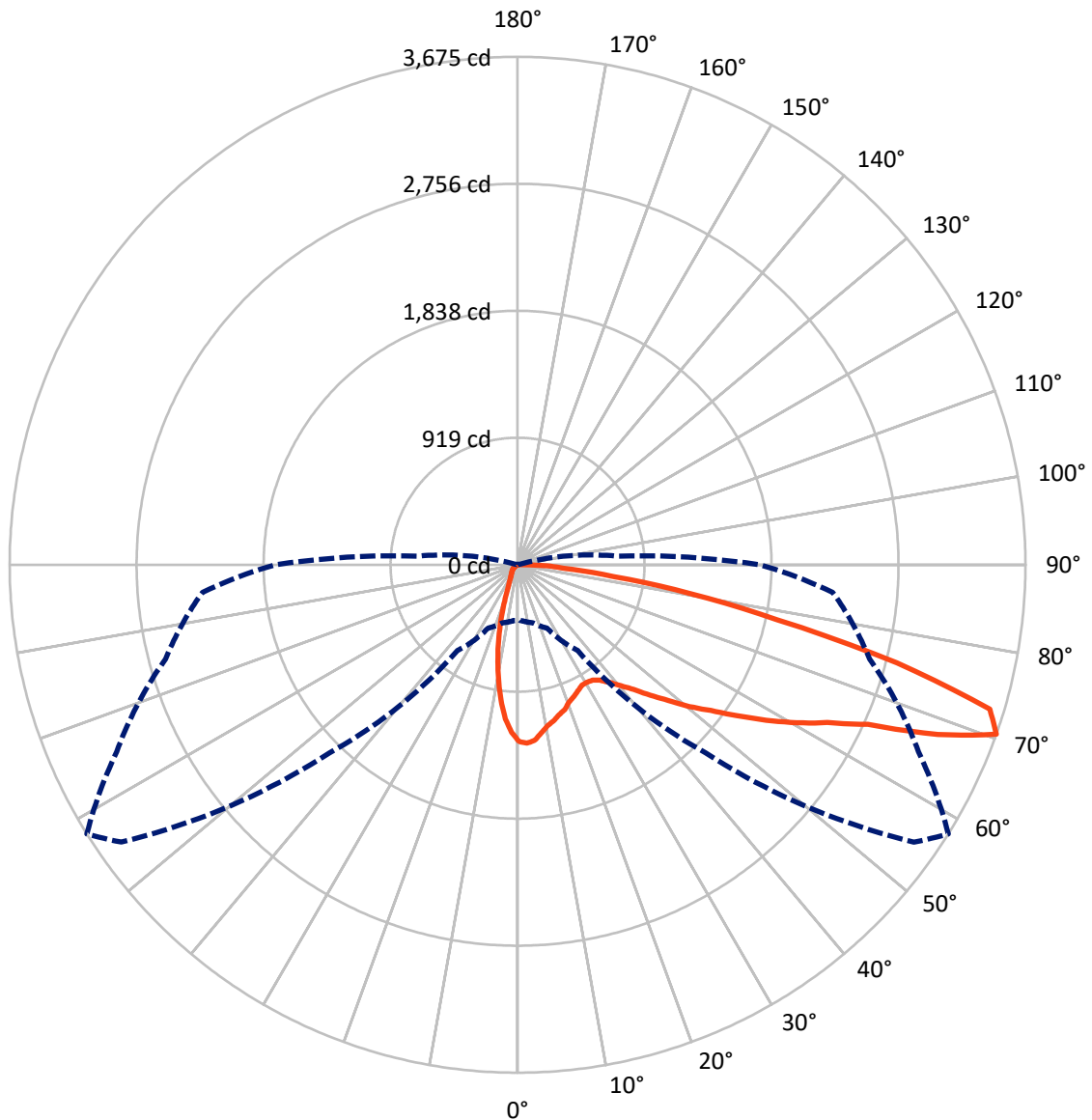
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.7 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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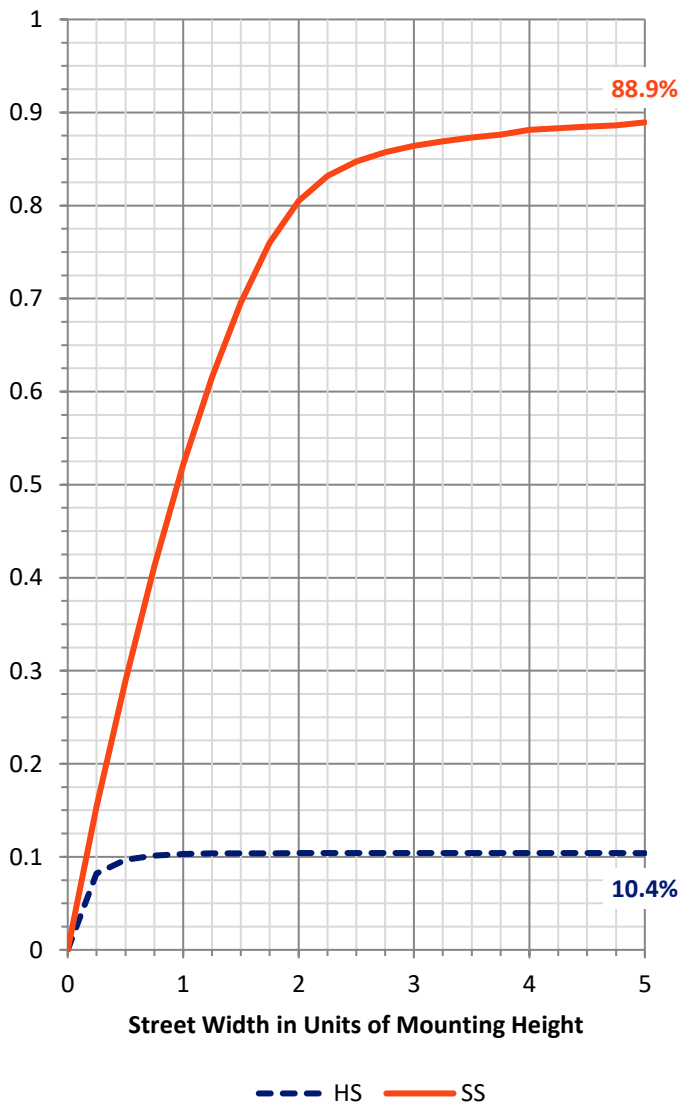
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	431.2	0.0	431.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	3686.1	0.0	3686.1
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	4117.3	0.0	4117.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.3	2.5
10°-20°	217.1	5.3
20°-30°	290.7	7.1
30°-40°	393.0	9.5
40°-50°	564.0	13.7
50°-60°	831.2	20.2
60°-70°	1013.8	24.6
70°-80°	619.1	15.0
80°-90°	84.1	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°	4117.3	100.0
0°-180°	4117.3	100.0

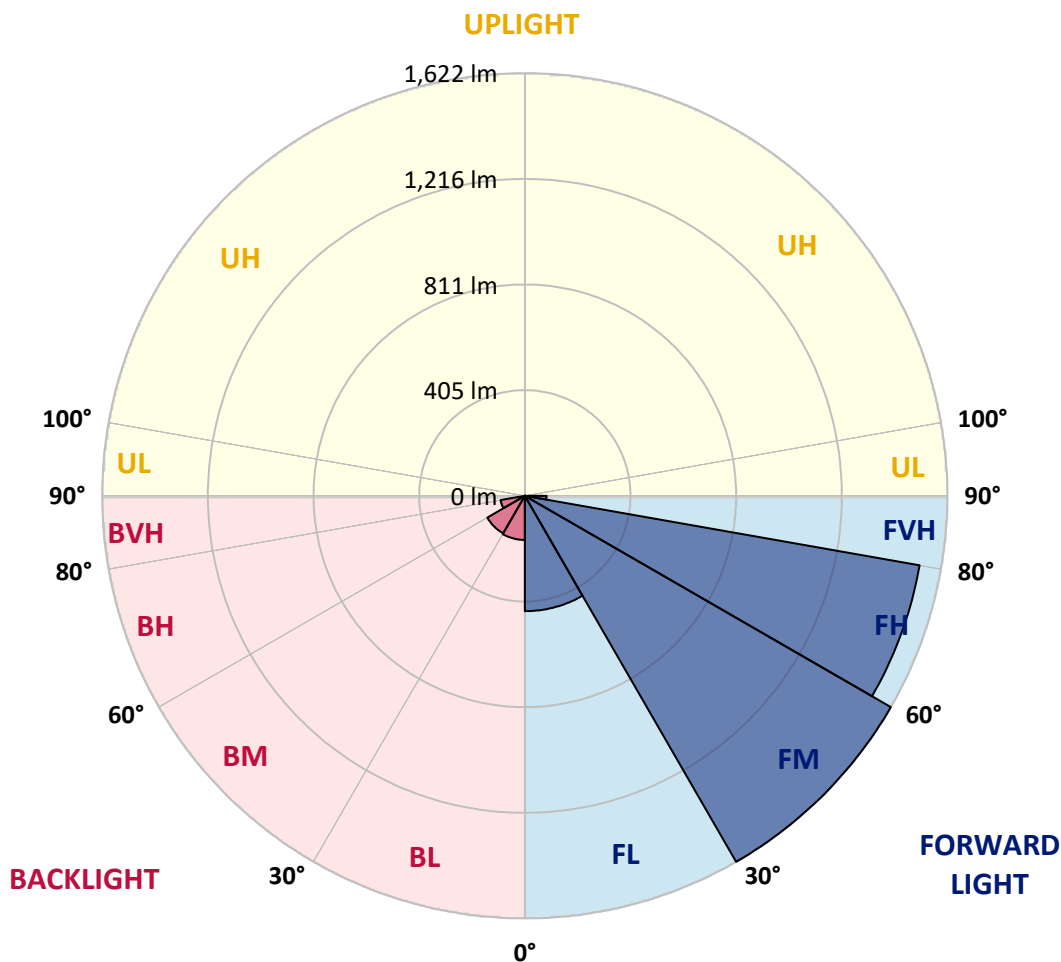


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	442.7	10.8			
FM (30°-60°)	1621.7	39.4			
FH (60°-80°)	1538.4	37.4			G1/1800
FVH (80°-90°)	83.3	2.0			G1/100
BL (0°-30°)	169.4	4.1	B1/500		
BM (30°-60°)	166.4	4.0	B0/220		
BH (60°-80°)	94.5	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°	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1
2.5°	1301.3	1306.1	1294.5	1308.0	1295.5	1301.3	1294.5	1292.6	1293.6	1294.5	1286.8
5°	1240.5	1252.1	1256.9	1249.2	1267.5	1264.6	1276.2	1277.2	1272.3	1267.5	1268.5
7.5°	1160.3	1171.9	1176.8	1181.6	1199.9	1224.1	1239.5	1229.8	1237.6	1254.9	1228.9
10°	1102.4	1099.5	1098.6	1108.2	1143.0	1163.2	1189.3	1186.4	1205.7	1222.1	1200.9
12.5°	1031.0	1025.2	1042.6	1050.3	1081.2	1116.9	1137.2	1158.4	1177.7	1195.1	1171.0
15°	977.9	982.7	989.5	1005.9	1028.1	1075.4	1105.3	1125.6	1160.3	1169.0	1159.4
17.5°	935.4	939.3	948.9	957.6	985.6	1031.0	1078.3	1102.4	1139.1	1162.3	1132.3
20°	936.4	924.8	924.8	933.5	948.9	1003.0	1053.2	1060.9	1111.1	1150.7	1130.4
22.5°	937.3	933.5	924.8	923.8	930.6	969.2	1020.4	1037.7	1091.8	1138.1	1114.0
25°	950.9	936.4	937.3	923.8	926.7	946.0	986.6	1012.6	1074.4	1144.9	1105.3
27.5°	962.4	969.2	955.7	949.9	933.5	932.5	966.3	988.5	1065.7	1160.3	1111.1
30°	988.5	993.3	993.3	989.5	974.0	951.8	959.6	987.5	1048.4	1157.4	1101.5
32.5°	1032.0	1023.3	1034.8	1029.1	1008.8	974.0	980.8	995.3	1059.0	1194.1	1116.9
35°	1046.4	1053.2	1068.6	1056.1	1049.3	1029.1	1015.5	1026.2	1074.4	1230.8	1140.1
37.5°	1090.8	1081.2	1091.8	1119.8	1126.6	1089.9	1063.8	1079.3	1132.3	1274.3	1161.3
40°	1094.7	1102.4	1121.7	1176.8	1183.5	1168.1	1146.8	1150.7	1190.3	1330.2	1214.4
42.5°	1114.0	1122.7	1162.3	1208.6	1245.3	1248.2	1232.7	1232.7	1266.5	1420.0	1273.3
45°	1151.7	1137.2	1188.3	1266.5	1319.6	1330.2	1350.5	1345.7	1372.7	1514.6	1383.3
47.5°	1166.1	1171.0	1227.0	1321.6	1382.4	1431.6	1465.4	1466.4	1479.9	1635.3	1526.2
50°	1213.4	1212.5	1280.0	1367.9	1457.7	1547.4	1613.1	1613.1	1612.1	1753.1	1648.8
52.5°	1276.2	1274.3	1326.4	1430.6	1547.4	1660.4	1747.3	1750.2	1772.4	1897.9	1789.7
55°	1378.5	1369.8	1420.0	1497.2	1637.2	1774.3	1924.9	1925.9	1908.5	2001.2	1891.1
57.5°	1464.4	1463.5	1505.0	1579.3	1737.6	1921.0	2095.8	2121.8	2066.8	2107.3	1972.2
60°	1442.2	1454.8	1540.7	1650.7	1843.8	2104.5	2280.1	2320.7	2232.8	2179.7	2033.0
62.5°	1304.2	1333.1	1426.8	1602.5	1933.6	2370.9	2534.0	2515.7	2319.7	2241.5	2107.3
65°	938.3	967.3	1083.1	1346.7	1829.3	2559.1	2868.0	2785.0	2474.2	2333.2	2206.8
67.5°	552.2	563.8	636.2	859.2	1367.9	2456.8	3273.5	3280.2	2778.3	2474.2	2378.6
70°	398.7	407.4	435.4	506.8	757.8	1925.9	3499.4	3675.1	3200.1	2636.4	2287.9
72.5°	306.0	306.0	353.3	421.9	482.7	1153.6	3220.4	3572.7	3291.8	2480.9	1843.8
75°	220.1	225.9	277.1	363.0	445.0	579.2	2372.8	2835.2	2789.8	2010.8	1287.8
77.5°	126.5	129.4	195.0	304.1	418.0	397.7	1466.4	1922.0	1976.1	1258.8	558.0
80°	64.7	66.6	109.1	240.4	378.4	346.6	874.6	1265.6	1073.5	365.9	129.4
82.5°	31.9	31.9	49.2	153.5	321.5	307.0	514.5	698.9	380.3	84.0	54.1
85°	10.6	11.6	22.2	86.9	232.6	185.3	314.7	332.1	127.4	31.9	29.9
87.5°	2.9	3.9	5.8	31.9	101.4	121.6	187.3	212.4	52.1	12.5	14.5
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°	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1
2.5°	1257.8	1251.1	1243.4	1224.1	1208.6	1188.3	1174.8	1164.2	1143.9	1147.8	1139.1
5°	1245.3	1232.7	1188.3	1145.9	1107.2	1048.4	1007.8	981.8	960.5	939.3	954.7
7.5°	1223.1	1193.2	1123.7	1044.5	962.4	885.2	808.0	761.7	727.9	697.0	696.0
10°	1185.4	1137.2	1028.1	924.8	798.3	697.0	598.5	521.3	471.1	434.4	433.4
12.5°	1143.0	1092.8	955.7	787.7	642.0	499.1	381.3	299.3	252.0	223.0	219.1
15°	1115.9	1042.6	864.9	666.1	485.6	325.3	211.4	160.2	141.9	135.1	135.1
17.5°	1081.2	997.2	775.2	539.6	336.9	188.2	137.1	123.6	122.6	120.7	118.7
20°	1066.7	962.4	695.0	430.5	213.3	133.2	117.8	114.9	114.9	112.9	111.0
22.5°	1028.1	912.3	610.1	315.7	141.9	116.8	111.0	107.2	105.2	103.3	105.2
25°	1010.7	876.5	530.0	218.2	115.8	104.3	101.4	97.5	94.6	93.6	93.6
27.5°	999.1	840.8	451.8	151.6	102.3	95.6	89.8	86.9	83.0	79.2	79.2
30°	990.4	812.8	376.5	112.0	91.7	85.0	80.1	73.4	68.5	64.7	64.7
32.5°	978.9	780.0	301.2	95.6	83.0	76.3	67.6	61.8	55.0	52.1	52.1
35°	982.7	757.8	236.5	85.0	74.3	65.6	57.9	50.2	43.4	40.5	39.6
37.5°	990.4	741.4	179.6	76.3	66.6	57.0	48.3	39.6	35.7	31.9	31.9
40°	1023.3	736.6	132.3	70.5	60.8	50.2	40.5	32.8	29.0	26.1	25.1
42.5°	1078.3	743.3	102.3	63.7	55.0	42.5	33.8	27.0	23.2	20.3	19.3
45°	1148.8	769.4	84.0	59.9	48.3	35.7	27.0	22.2	17.4	15.4	15.4
47.5°	1251.1	809.9	73.4	55.0	42.5	29.9	23.2	17.4	13.5	11.6	11.6
50°	1366.9	856.3	64.7	49.2	36.7	25.1	18.3	13.5	9.7	8.7	8.7
52.5°	1482.8	915.1	59.9	45.4	31.9	20.3	14.5	9.7	6.8	5.8	5.8
55°	1604.4	967.3	54.1	42.5	26.1	16.4	10.6	5.8	3.9	2.9	2.9
57.5°	1689.4	987.5	47.3	36.7	20.3	12.5	7.7	3.9	1.9	1.0	1.0
60°	1750.2	990.4	40.5	29.9	15.4	9.7	4.8	1.9	1.0	0.0	0.0
62.5°	1801.3	996.2	34.8	23.2	11.6	6.8	2.9	1.0	0.0	0.0	0.0
65°	1902.7	991.4	28.0	18.3	7.7	3.9	1.9	0.0	0.0	0.0	0.0
67.5°	1982.8	943.1	22.2	12.5	4.8	1.9	1.0	0.0	0.0	0.0	0.0
70°	1754.0	719.2	17.4	8.7	2.9	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	1377.5	479.8	11.6	4.8	1.9	1.0	0.0	0.0	0.0	0.0	0.0
75°	903.6	238.4	8.7	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	351.4	62.7	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	85.0	21.2	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.7	7.7	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.2	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.6	1.9	1.0	1.0	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)