

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: P676975

Luminaire Tested: **CCW-SA-1D-730-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676975  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-730-U-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

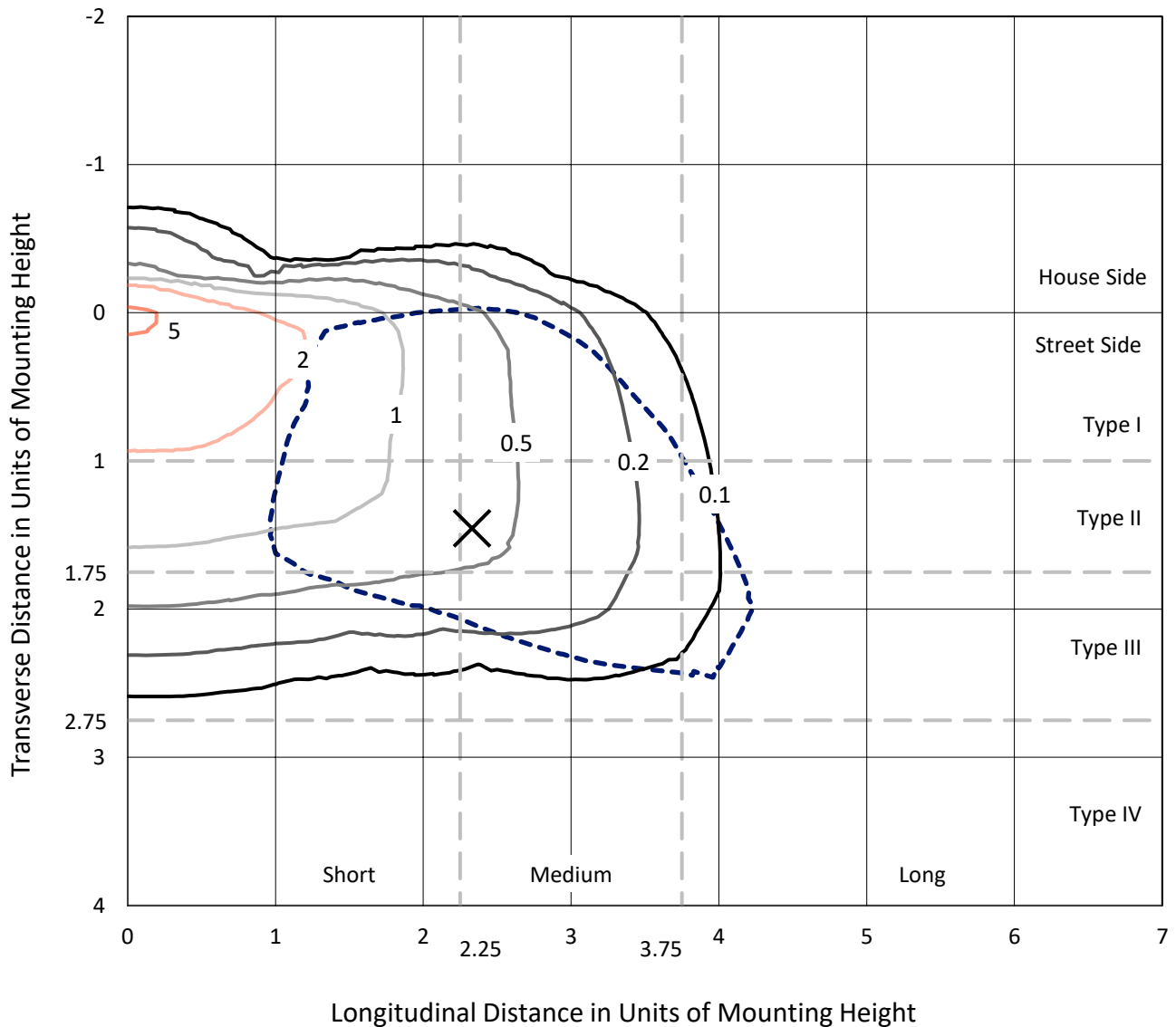
Lumens per Lamp: N/A  
Luminaire Lumens: 4196.5 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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

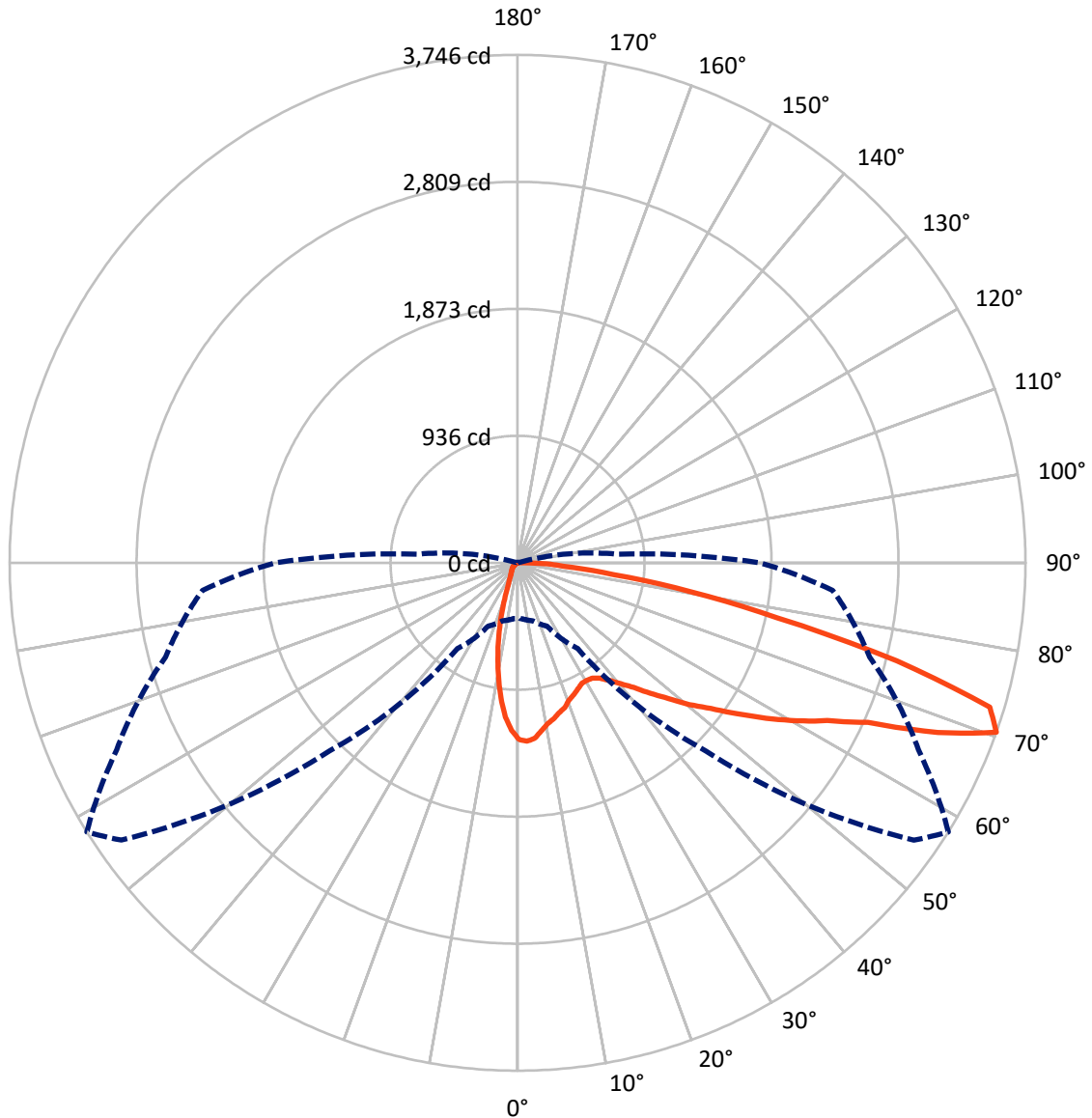
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.8 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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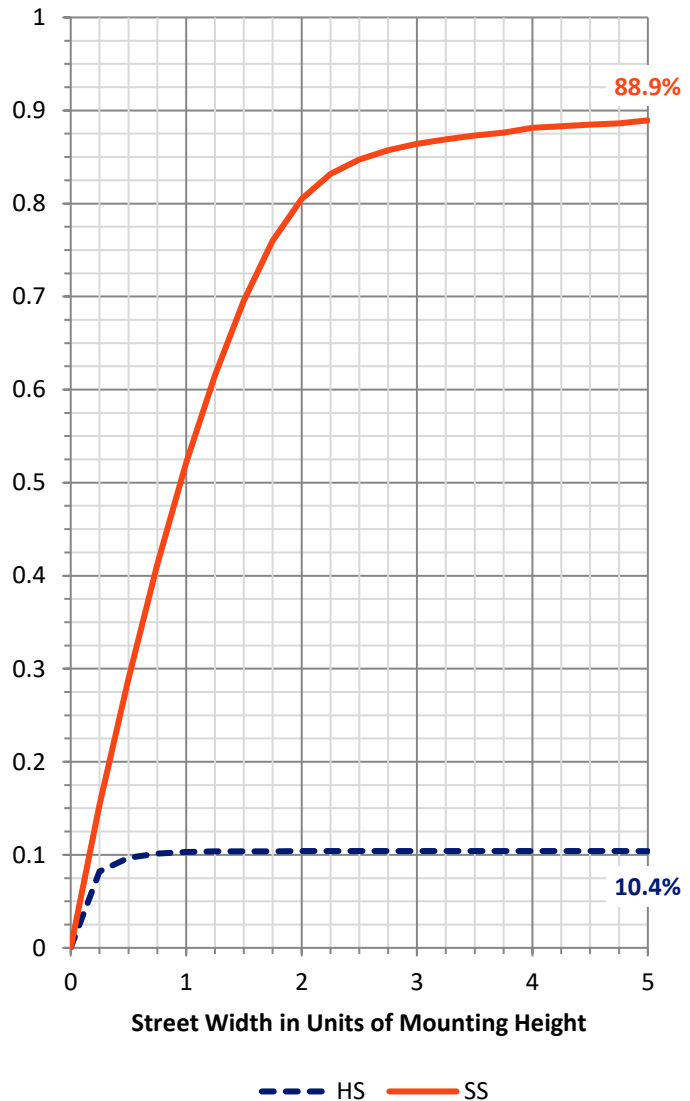
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	439.4	0.0	439.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	3757.0	0.0	3757.0
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	4196.5	0.0	4196.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.3	2.5
10°-20°	221.3	5.3
20°-30°	296.3	7.1
30°-40°	400.5	9.5
40°-50°	574.9	13.7
50°-60°	847.2	20.2
60°-70°	1033.3	24.6
70°-80°	631.0	15.0
80°-90°	85.7	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°	4196.5	100.0
0°-180°	4196.5	100.0

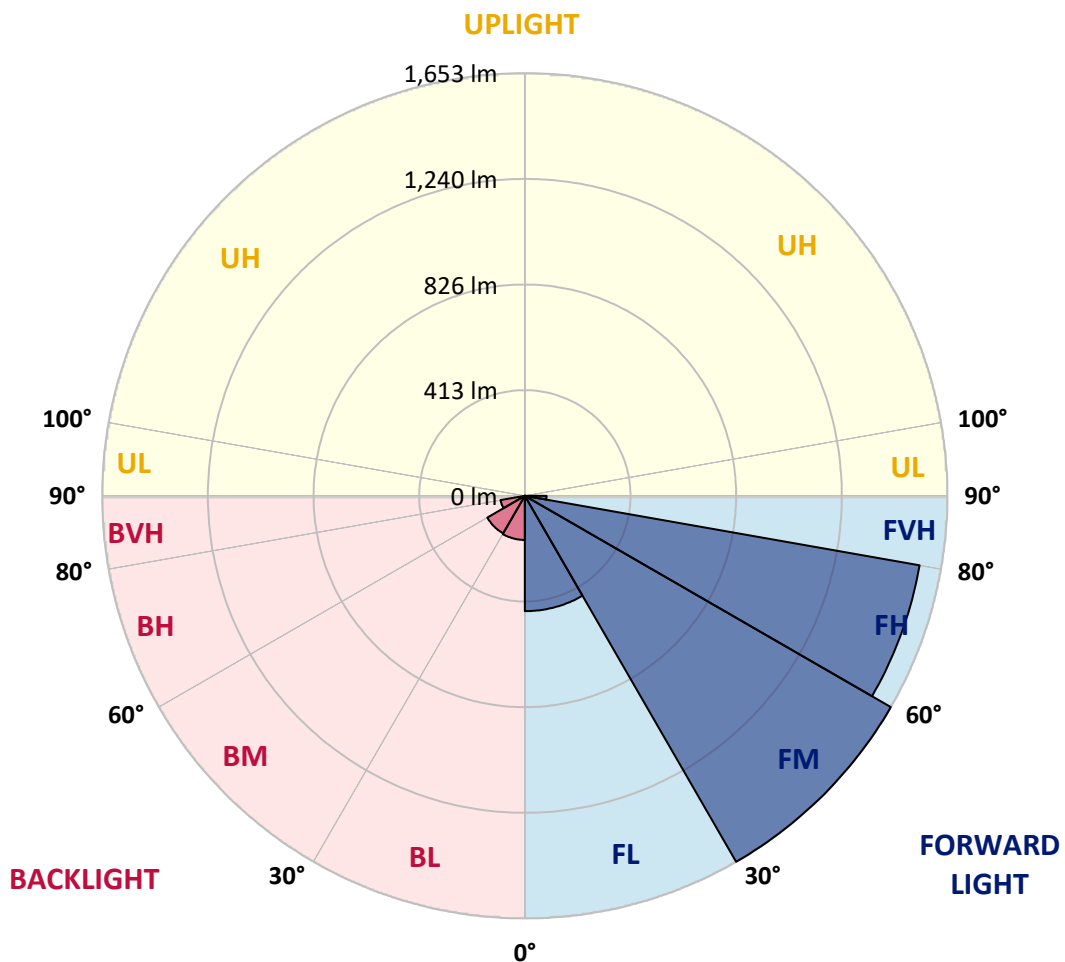


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	451.2	10.8			
FM (30°-60°)	1652.9	39.4			
FH (60°-80°)	1568.0	37.4			G1/1800
FVH (80°-90°)	84.9	2.0			G1/100
BL (0°-30°)	172.7	4.1	B1/500		
BM (30°-60°)	169.6	4.0	B0/220		
BH (60°-80°)	96.3	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°	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7
2.5°	1326.3	1331.2	1319.4	1333.2	1320.4	1326.3	1319.4	1317.5	1318.4	1319.4	1311.6
5°	1264.3	1276.1	1281.1	1273.2	1291.9	1288.9	1300.7	1301.7	1296.8	1291.9	1292.9
7.5°	1182.7	1194.5	1199.4	1204.3	1223.0	1247.6	1263.3	1253.5	1261.4	1279.1	1252.5
10°	1123.6	1120.7	1119.7	1129.5	1165.0	1185.6	1212.2	1209.2	1228.9	1245.6	1224.0
12.5°	1050.8	1044.9	1062.6	1070.5	1102.0	1138.4	1159.1	1180.7	1200.4	1218.1	1193.5
15°	996.7	1001.6	1008.5	1025.2	1047.9	1096.1	1126.6	1147.2	1182.7	1191.5	1181.7
17.5°	953.4	957.3	967.2	976.0	1004.6	1050.8	1099.0	1123.6	1161.0	1184.6	1154.1
20°	954.4	942.6	942.6	951.4	967.2	1022.3	1073.5	1081.3	1132.5	1172.8	1152.2
22.5°	955.4	951.4	942.6	941.6	948.5	987.9	1040.0	1057.7	1112.8	1160.0	1135.4
25°	969.2	954.4	955.4	941.6	944.6	964.2	1005.6	1032.1	1095.1	1166.9	1126.6
27.5°	981.0	987.9	974.1	968.2	951.4	950.5	984.9	1007.5	1086.2	1182.7	1132.5
30°	1007.5	1012.4	1012.4	1008.5	992.8	970.1	978.0	1006.5	1068.5	1179.7	1122.6
32.5°	1051.8	1043.0	1054.8	1048.9	1028.2	992.8	999.7	1014.4	1079.4	1217.1	1138.4
35°	1066.6	1073.5	1089.2	1076.4	1069.5	1048.9	1035.1	1045.9	1095.1	1254.5	1162.0
37.5°	1111.8	1102.0	1112.8	1141.3	1148.2	1110.8	1084.3	1100.0	1154.1	1298.8	1183.7
40°	1115.8	1123.6	1143.3	1199.4	1206.3	1190.5	1168.9	1172.8	1213.2	1355.8	1237.8
42.5°	1135.4	1144.3	1184.6	1231.9	1269.3	1272.2	1256.5	1256.5	1290.9	1447.3	1297.8
45°	1173.8	1159.1	1211.2	1290.9	1345.0	1355.8	1376.5	1371.6	1399.1	1543.8	1410.0
47.5°	1188.6	1193.5	1250.6	1347.0	1409.0	1459.1	1493.6	1494.6	1508.3	1666.8	1555.6
50°	1236.8	1235.8	1304.7	1394.2	1485.7	1577.2	1644.1	1644.1	1643.1	1786.8	1680.5
52.5°	1300.7	1298.8	1351.9	1458.2	1577.2	1692.3	1780.9	1783.8	1806.5	1934.4	1824.2
55°	1405.0	1396.2	1447.3	1526.1	1668.7	1808.4	1961.9	1962.9	1945.2	2039.7	1927.5
57.5°	1492.6	1491.6	1533.9	1609.7	1771.0	1958.0	2136.1	2162.6	2106.6	2147.9	2010.1
60°	1470.0	1482.8	1570.3	1682.5	1879.3	2144.9	2324.0	2365.3	2275.8	2221.7	2072.1
62.5°	1329.3	1358.8	1454.2	1633.3	1970.8	2416.5	2582.8	2564.1	2364.3	2284.7	2147.9
65°	956.4	985.9	1104.0	1372.6	1864.5	2608.4	2923.2	2838.6	2521.8	2378.1	2249.2
67.5°	562.8	574.6	648.4	875.7	1394.2	2504.1	3336.5	3343.3	2831.7	2521.8	2424.4
70°	406.4	415.2	443.7	516.6	772.4	1962.9	3566.7	3745.8	3261.7	2687.1	2331.9
72.5°	311.9	311.9	360.1	430.0	492.0	1175.8	3282.3	3641.5	3355.2	2528.7	1879.3
75°	224.3	230.2	282.4	370.0	453.6	590.3	2418.5	2889.8	2843.5	2049.5	1312.5
77.5°	128.9	131.8	198.8	309.9	426.0	405.4	1494.6	1959.0	2014.1	1283.0	568.7
80°	65.9	67.9	111.2	245.0	385.7	353.2	891.4	1289.9	1094.1	372.9	131.8
82.5°	32.5	32.5	50.2	156.4	327.6	312.9	524.4	712.4	387.7	85.6	55.1
85°	10.8	11.8	22.6	88.6	237.1	188.9	320.8	338.5	129.9	32.5	30.5
87.5°	3.0	3.9	5.9	32.5	103.3	124.0	190.9	216.5	53.1	12.8	14.8
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7
2.5°	1282.0	1275.2	1267.3	1247.6	1231.9	1211.2	1197.4	1186.6	1165.9	1169.9	1161.0
5°	1269.3	1256.5	1211.2	1167.9	1128.6	1068.5	1027.2	1000.6	979.0	957.3	973.1
7.5°	1246.6	1216.1	1145.3	1064.6	981.0	902.3	823.5	776.3	741.9	710.4	709.4
10°	1208.2	1159.1	1047.9	942.6	813.7	710.4	610.0	531.3	480.2	442.8	441.8
12.5°	1165.0	1113.8	974.1	802.9	654.3	508.7	388.6	305.0	256.8	227.3	223.3
15°	1137.4	1062.6	881.6	678.9	494.9	331.6	215.5	163.3	144.6	137.7	137.7
17.5°	1102.0	1016.4	790.1	550.0	343.4	191.9	139.7	125.9	125.0	123.0	121.0
20°	1087.2	981.0	708.4	438.8	217.4	135.8	120.0	117.1	117.1	115.1	113.2
22.5°	1047.9	929.8	621.8	321.7	144.6	119.1	113.2	109.2	107.2	105.3	107.2
25°	1030.2	893.4	540.2	222.4	118.1	106.3	103.3	99.4	96.4	95.4	95.4
27.5°	1018.4	857.0	460.5	154.5	104.3	97.4	91.5	88.6	84.6	80.7	80.7
30°	1009.5	828.5	383.7	114.1	93.5	86.6	81.7	74.8	69.9	65.9	65.9
32.5°	997.7	795.0	307.0	97.4	84.6	77.7	68.9	63.0	56.1	53.1	53.1
35°	1001.6	772.4	241.1	86.6	75.8	66.9	59.0	51.2	44.3	41.3	40.3
37.5°	1009.5	755.6	183.0	77.7	67.9	58.1	49.2	40.3	36.4	32.5	32.5
40°	1043.0	750.7	134.8	71.8	62.0	51.2	41.3	33.5	29.5	26.6	25.6
42.5°	1099.0	757.6	104.3	64.9	56.1	43.3	34.4	27.5	23.6	20.7	19.7
45°	1170.9	784.2	85.6	61.0	49.2	36.4	27.5	22.6	17.7	15.7	15.7
47.5°	1275.2	825.5	74.8	56.1	43.3	30.5	23.6	17.7	13.8	11.8	11.8
50°	1393.2	872.7	65.9	50.2	37.4	25.6	18.7	13.8	9.8	8.9	8.9
52.5°	1511.3	932.8	61.0	46.2	32.5	20.7	14.8	9.8	6.9	5.9	5.9
55°	1635.3	985.9	55.1	43.3	26.6	16.7	10.8	5.9	3.9	3.0	3.0
57.5°	1721.9	1006.5	48.2	37.4	20.7	12.8	7.9	3.9	2.0	1.0	1.0
60°	1783.8	1009.5	41.3	30.5	15.7	9.8	4.9	2.0	1.0	0.0	0.0
62.5°	1836.0	1015.4	35.4	23.6	11.8	6.9	3.0	1.0	0.0	0.0	0.0
65°	1939.3	1010.5	28.5	18.7	7.9	3.9	2.0	0.0	0.0	0.0	0.0
67.5°	2021.0	961.3	22.6	12.8	4.9	2.0	1.0	0.0	0.0	0.0	0.0
70°	1787.8	733.0	17.7	8.9	3.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	1404.0	489.0	11.8	4.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	920.9	243.0	8.9	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	358.1	64.0	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	86.6	21.6	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	37.4	7.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.6	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.8	2.0	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)