

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: P676968

Luminaire Tested: **CCW-SA-2B-727-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676968  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-727-U-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4772.7 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

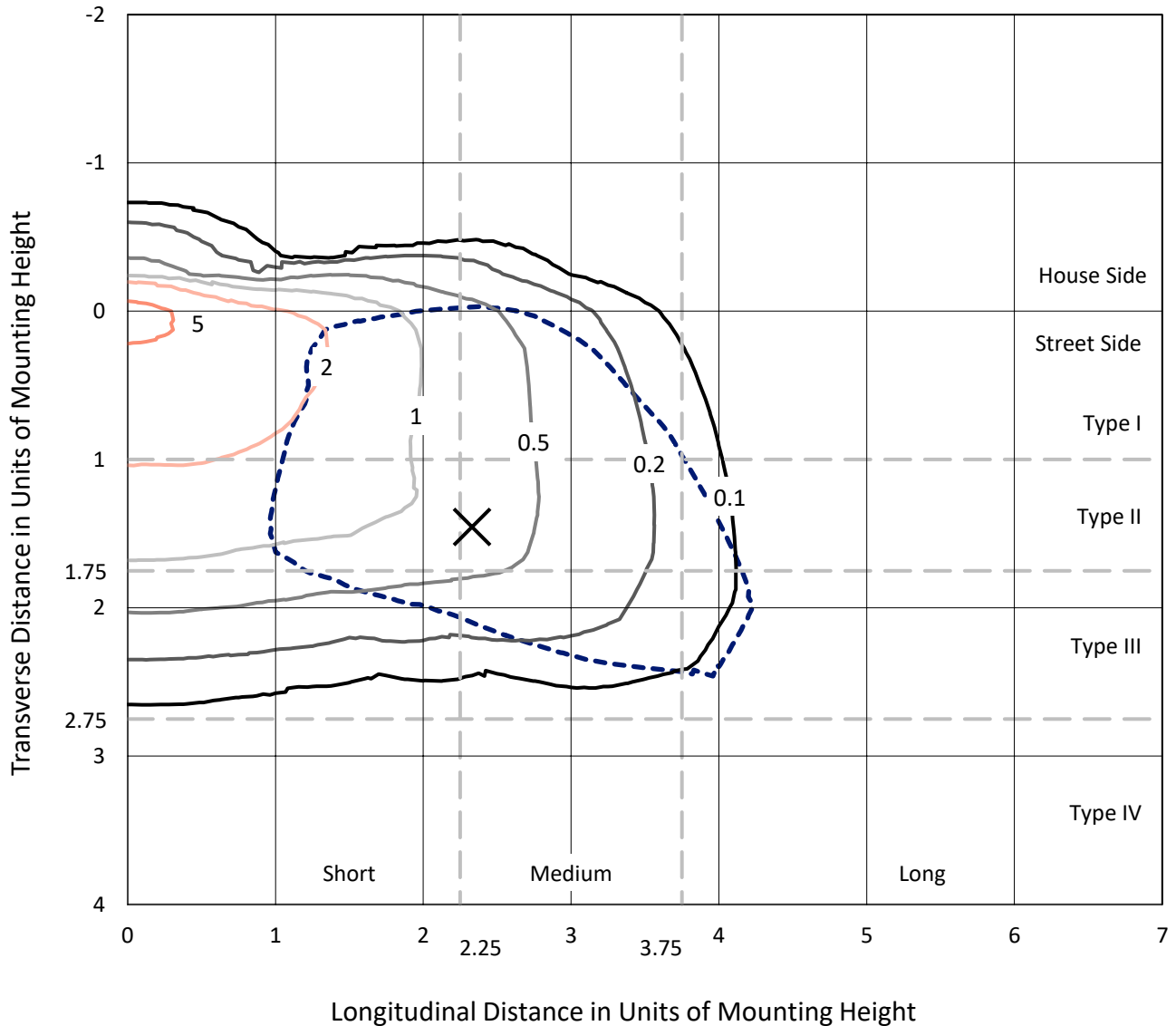
Input Watts (W): 46  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

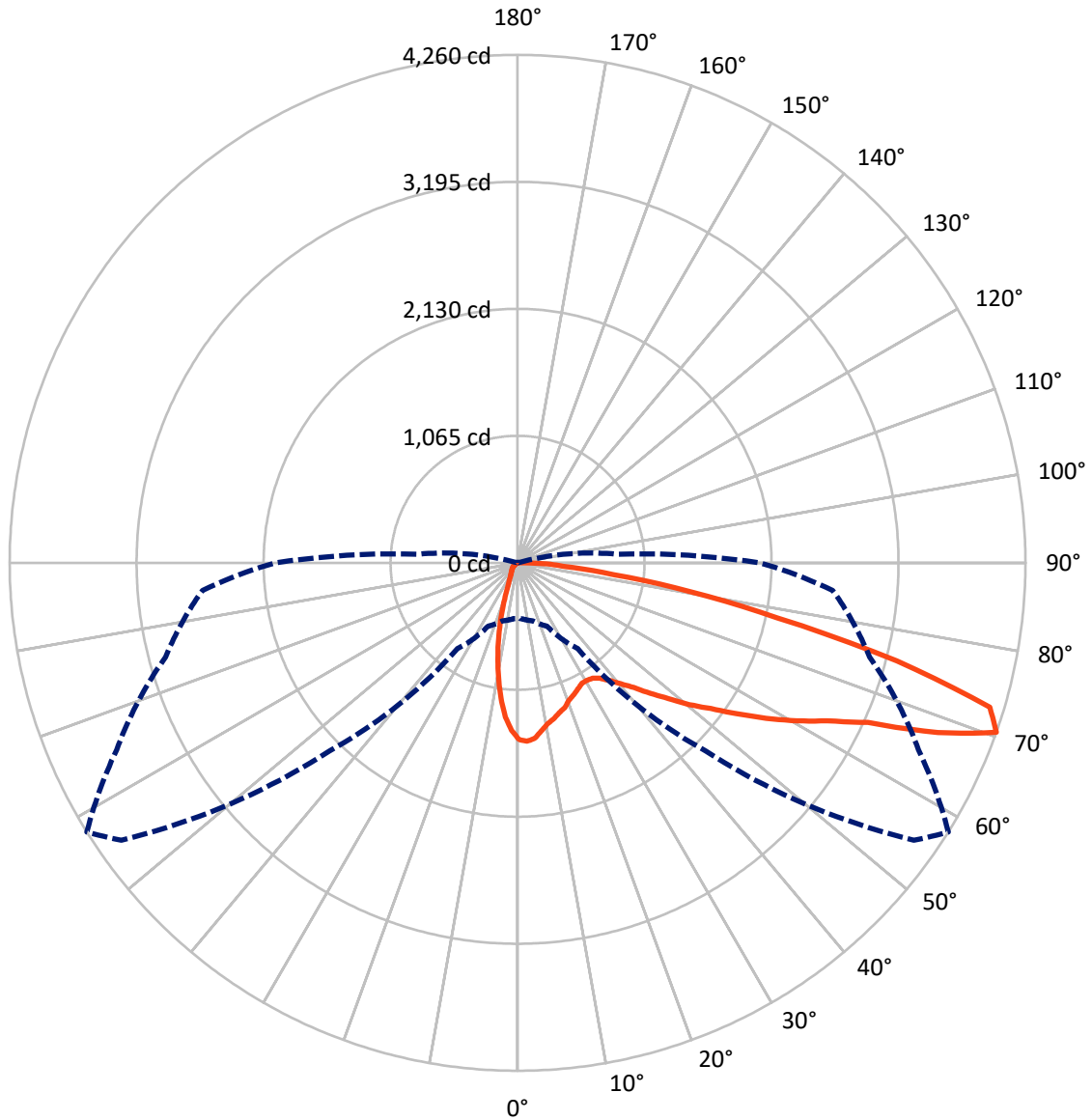
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.6 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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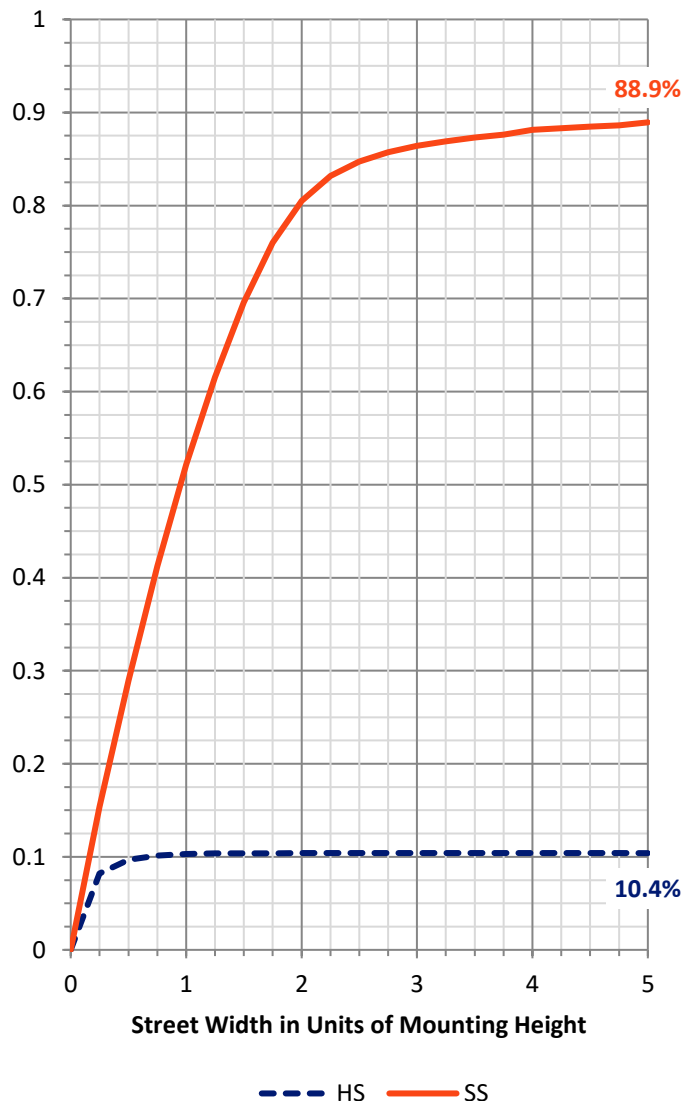
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	499.8	0.0	499.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	4272.9	0.0	4272.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	4772.7	0.0	4772.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.9	2.5
10°-20°	251.7	5.3
20°-30°	337.0	7.1
30°-40°	455.5	9.5
40°-50°	653.8	13.7
50°-60°	963.5	20.2
60°-70°	1175.2	24.6
70°-80°	717.6	15.0
80°-90°	97.5	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°	4772.7	100.0
0°-180°	4772.7	100.0

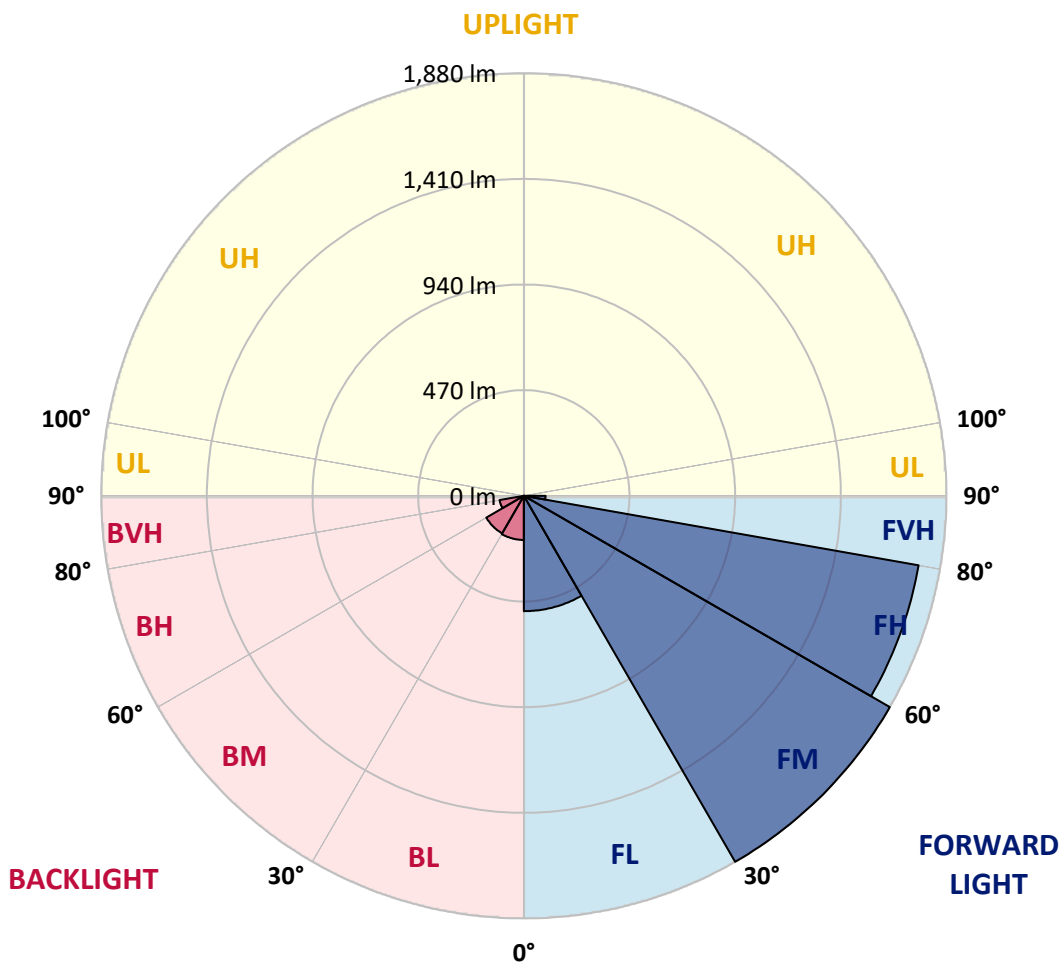


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	513.1	10.8			
FM (30°-60°)	1879.9	39.4			
FH (60°-80°)	1783.3	37.4			G1/1800
FVH (80°-90°)	96.5	2.0			G1/100
BL (0°-30°)	196.4	4.1	B1/500		
BM (30°-60°)	192.9	4.0	B0/220		
BH (60°-80°)	109.5	2.3	B0/110		G0/110
BVH (80°-90°)	0.9	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°	1481.6	1481.6	1481.6	1481.6	1481.6	1481.6	1481.6	1481.6	1481.6	1481.6	1481.6
2.5°	1508.4	1514.0	1500.6	1516.3	1501.7	1508.4	1500.6	1498.4	1499.5	1500.6	1491.7
5°	1437.9	1451.4	1457.0	1448.0	1469.3	1465.9	1479.3	1480.5	1474.9	1469.3	1470.4
7.5°	1345.1	1358.5	1364.1	1369.7	1390.9	1418.9	1436.8	1425.6	1434.6	1454.7	1424.5
10°	1277.9	1274.6	1273.4	1284.6	1324.9	1348.4	1378.6	1375.3	1397.7	1416.7	1392.1
12.5°	1195.1	1188.4	1208.5	1217.5	1253.3	1294.7	1318.2	1342.8	1365.2	1385.4	1357.4
15°	1133.6	1139.2	1147.0	1166.0	1191.8	1246.6	1281.3	1304.8	1345.1	1355.1	1343.9
17.5°	1084.3	1088.8	1100.0	1110.1	1142.5	1195.1	1249.9	1277.9	1320.4	1347.3	1312.6
20°	1085.5	1072.0	1072.0	1082.1	1100.0	1162.7	1220.9	1229.8	1288.0	1333.9	1310.4
22.5°	1086.6	1082.1	1072.0	1070.9	1078.7	1123.5	1182.8	1203.0	1265.6	1319.3	1291.4
25°	1102.2	1085.5	1086.6	1070.9	1074.3	1096.6	1143.6	1173.9	1245.5	1327.2	1281.3
27.5°	1115.7	1123.5	1107.8	1101.1	1082.1	1081.0	1120.1	1145.9	1235.4	1345.1	1288.0
30°	1145.9	1151.5	1151.5	1147.0	1129.1	1103.4	1112.3	1144.8	1215.3	1341.7	1276.8
32.5°	1196.2	1186.2	1199.6	1192.9	1169.4	1129.1	1136.9	1153.7	1227.6	1384.2	1294.7
35°	1213.0	1220.9	1238.8	1224.2	1216.4	1192.9	1177.2	1189.5	1245.5	1426.8	1321.6
37.5°	1264.5	1253.3	1265.6	1298.1	1305.9	1263.4	1233.2	1251.1	1312.6	1477.1	1346.2
40°	1269.0	1277.9	1300.3	1364.1	1371.9	1354.0	1329.4	1333.9	1379.8	1542.0	1407.7
42.5°	1291.4	1301.4	1347.3	1401.0	1443.5	1446.9	1429.0	1429.0	1468.2	1646.1	1476.0
45°	1335.0	1318.2	1377.5	1468.2	1529.7	1542.0	1565.5	1559.9	1591.3	1755.7	1603.6
47.5°	1351.8	1357.4	1422.3	1531.9	1602.4	1659.5	1698.7	1699.8	1715.5	1895.6	1769.2
50°	1406.6	1405.5	1483.8	1585.7	1689.7	1793.8	1869.9	1869.9	1868.8	2032.1	1911.3
52.5°	1479.3	1477.1	1537.5	1658.4	1793.8	1924.7	2025.4	2028.8	2054.5	2200.0	2074.7
55°	1598.0	1587.9	1646.1	1735.6	1897.9	2056.8	2231.3	2232.5	2212.3	2319.7	2192.2
57.5°	1697.6	1696.4	1744.6	1830.7	2014.2	2226.9	2429.4	2459.6	2395.8	2442.8	2286.2
60°	1671.8	1686.4	1786.0	1913.5	2137.3	2439.5	2643.1	2690.1	2588.3	2526.8	2356.7
62.5°	1511.8	1545.4	1653.9	1857.6	2241.4	2748.3	2937.4	2916.2	2689.0	2598.4	2442.8
65°	1087.7	1121.3	1255.5	1561.0	2120.6	2966.5	3324.6	3228.4	2868.1	2704.7	2558.1
67.5°	640.1	653.5	737.4	995.9	1585.7	2847.9	3794.6	3802.4	3220.6	2868.1	2757.3
70°	462.2	472.2	504.7	587.5	878.4	2232.5	4056.5	4260.1	3709.6	3056.1	2652.1
72.5°	354.7	354.7	409.6	489.0	559.5	1337.2	3733.1	4141.5	3815.9	2875.9	2137.3
75°	255.1	261.9	321.2	420.8	515.9	671.4	2750.6	3286.6	3234.0	2330.9	1492.8
77.5°	146.6	149.9	226.0	352.5	484.5	461.0	1699.8	2228.0	2290.6	1459.2	646.8
80°	75.0	77.2	126.4	278.6	438.7	401.7	1013.8	1467.0	1244.4	424.1	149.9
82.5°	36.9	36.9	57.1	177.9	372.6	355.8	596.4	810.2	440.9	97.4	62.7
85°	12.3	13.4	25.7	100.7	269.7	214.9	364.8	384.9	147.7	36.9	34.7
87.5°	3.4	4.5	6.7	36.9	117.5	141.0	217.1	246.2	60.4	14.5	16.8
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°	1481.6	1481.6	1481.6	1481.6	1481.6	1481.6	1481.6	1481.6	1481.6	1481.6	1481.6
2.5°	1458.1	1450.3	1441.3	1418.9	1401.0	1377.5	1361.9	1349.5	1326.0	1330.5	1320.4
5°	1443.5	1429.0	1377.5	1328.3	1283.5	1215.3	1168.3	1138.0	1113.4	1088.8	1106.7
7.5°	1417.8	1383.1	1302.5	1210.8	1115.7	1026.1	936.6	882.9	843.7	807.9	806.8
10°	1374.2	1318.2	1191.8	1072.0	925.4	807.9	693.8	604.3	546.1	503.6	502.4
12.5°	1324.9	1266.7	1107.8	913.1	744.2	578.5	442.0	346.9	292.1	258.5	254.0
15°	1293.6	1208.5	1002.6	772.1	562.9	377.1	245.1	185.8	164.5	156.7	156.7
17.5°	1253.3	1156.0	898.6	625.5	390.5	218.2	158.9	143.2	142.1	139.9	137.6
20°	1236.5	1115.7	805.7	499.1	247.3	154.4	136.5	133.2	133.2	130.9	128.7
22.5°	1191.8	1057.5	707.2	365.9	164.5	135.4	128.7	124.2	122.0	119.7	122.0
25°	1171.6	1016.1	614.3	252.9	134.3	120.9	117.5	113.0	109.7	108.5	108.5
27.5°	1158.2	974.7	523.7	175.7	118.6	110.8	104.1	100.7	96.2	91.8	91.8
30°	1148.1	942.2	436.4	129.8	106.3	98.5	92.9	85.0	79.5	75.0	75.0
32.5°	1134.7	904.2	349.1	110.8	96.2	88.4	78.3	71.6	63.8	60.4	60.4
35°	1139.2	878.4	274.2	98.5	86.2	76.1	67.1	58.2	50.4	47.0	45.9
37.5°	1148.1	859.4	208.1	88.4	77.2	66.0	56.0	45.9	41.4	36.9	36.9
40°	1186.2	853.8	153.3	81.7	70.5	58.2	47.0	38.0	33.6	30.2	29.1
42.5°	1249.9	861.6	118.6	73.9	63.8	49.2	39.2	31.3	26.9	23.5	22.4
45°	1331.6	891.9	97.4	69.4	56.0	41.4	31.3	25.7	20.1	17.9	17.9
47.5°	1450.3	938.9	85.0	63.8	49.2	34.7	26.9	20.1	15.7	13.4	13.4
50°	1584.5	992.6	75.0	57.1	42.5	29.1	21.3	15.7	11.2	10.1	10.1
52.5°	1718.8	1060.8	69.4	52.6	36.9	23.5	16.8	11.2	7.8	6.7	6.7
55°	1859.8	1121.3	62.7	49.2	30.2	19.0	12.3	6.7	4.5	3.4	3.4
57.5°	1958.3	1144.8	54.8	42.5	23.5	14.5	9.0	4.5	2.2	1.1	1.1
60°	2028.8	1148.1	47.0	34.7	17.9	11.2	5.6	2.2	1.1	0.0	0.0
62.5°	2088.1	1154.8	40.3	26.9	13.4	7.8	3.4	1.1	0.0	0.0	0.0
65°	2205.6	1149.2	32.5	21.3	9.0	4.5	2.2	0.0	0.0	0.0	0.0
67.5°	2298.5	1093.3	25.7	14.5	5.6	2.2	1.1	0.0	0.0	0.0	0.0
70°	2033.3	833.7	20.1	10.1	3.4	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	1596.8	556.2	13.4	5.6	2.2	1.1	0.0	0.0	0.0	0.0	0.0
75°	1047.4	276.4	10.1	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	407.3	72.7	6.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	98.5	24.6	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	42.5	9.0	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.7	4.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.4	2.2	1.1	1.1	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)