

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: P677064

Luminaire Tested: **CCW-SA-1E-840-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677064  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-840-U-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

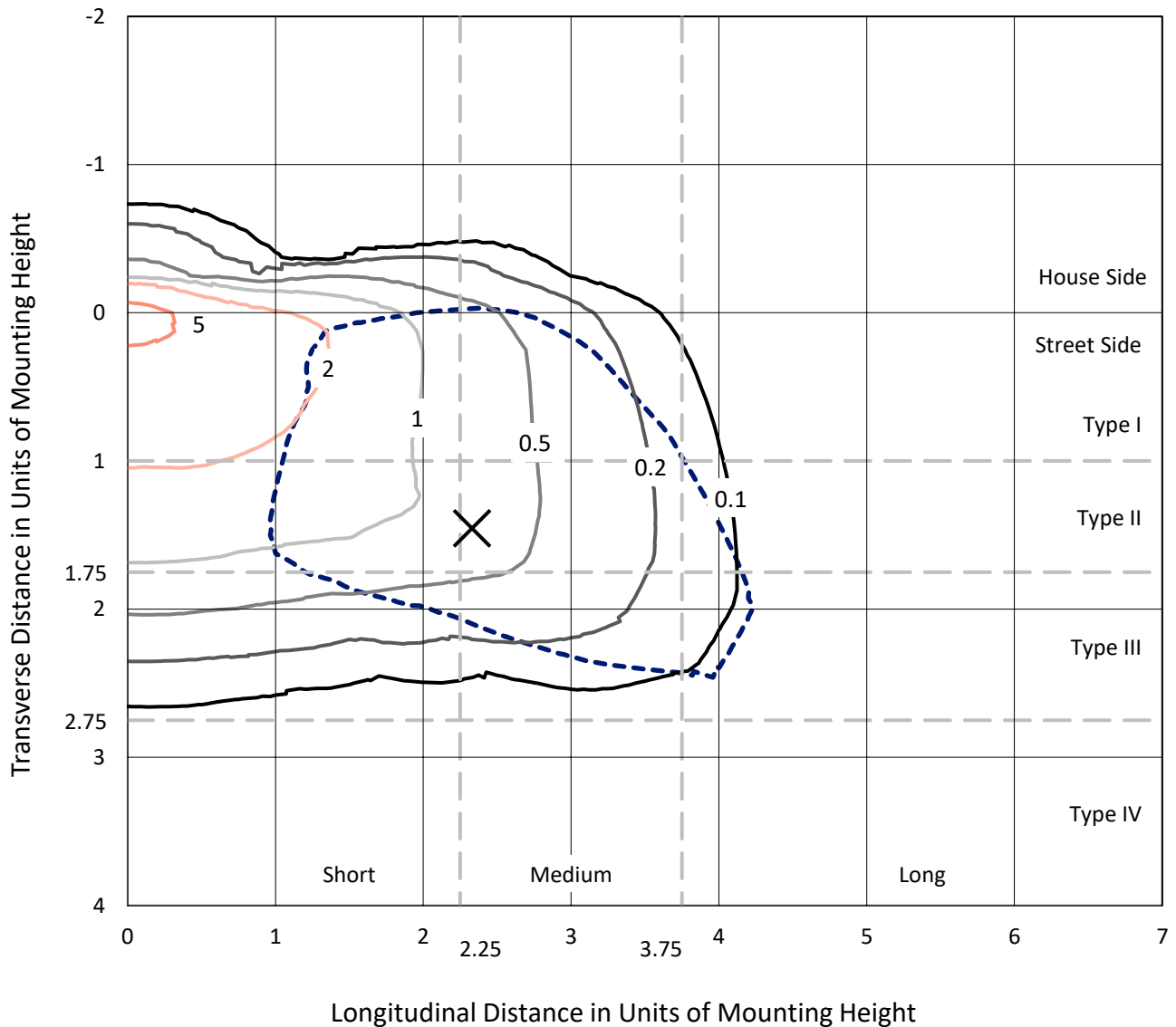
Lumens per Lamp: N/A  
Luminaire Lumens: 4817 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1  
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

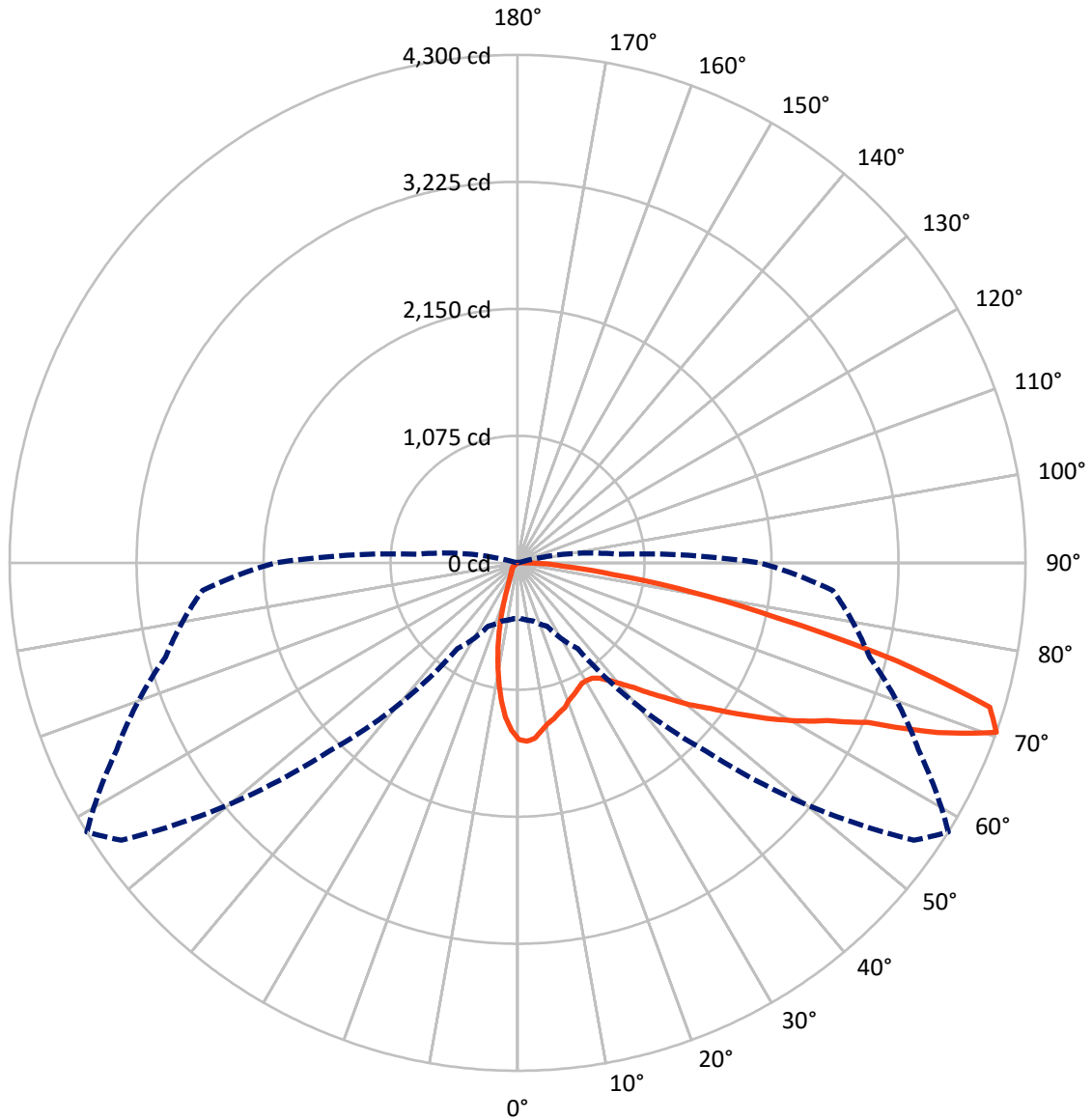
× Max cd  
 - - - 1/2 Max cd



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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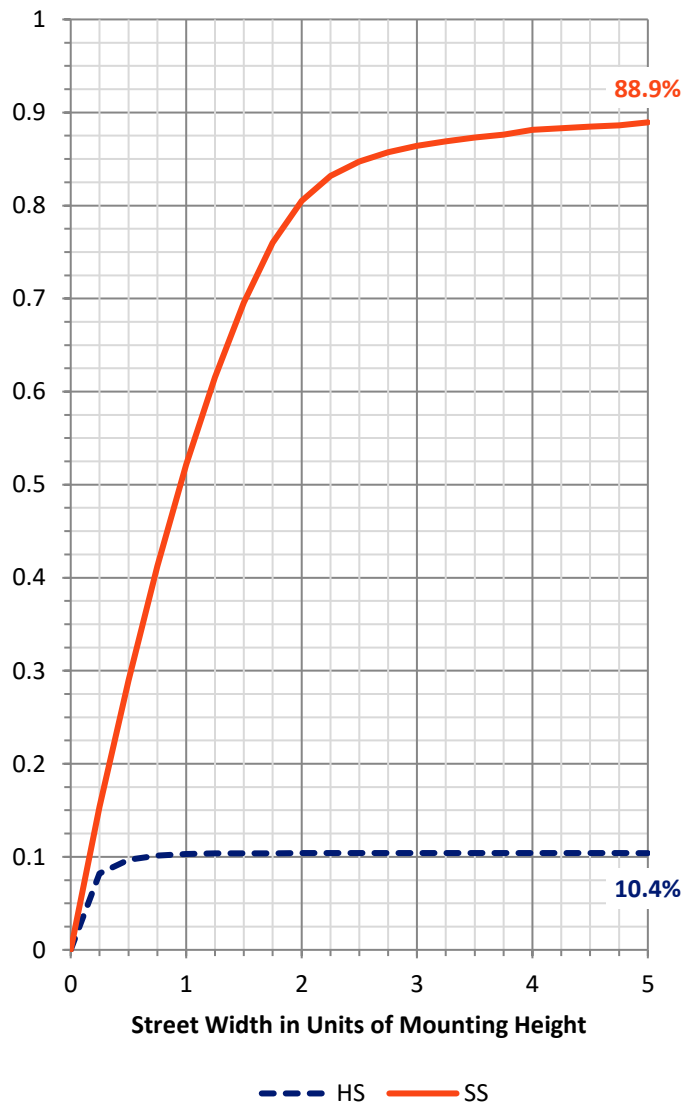
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	504.4	0.0	504.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	4312.6	0.0	4312.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	4817.0	0.0	4817.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.0	2.5
10°-20°	254.0	5.3
20°-30°	340.1	7.1
30°-40°	459.8	9.5
40°-50°	659.9	13.7
50°-60°	972.4	20.2
60°-70°	1186.1	24.6
70°-80°	724.3	15.0
80°-90°	98.4	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°	4817.0	100.0
0°-180°	4817.0	100.0

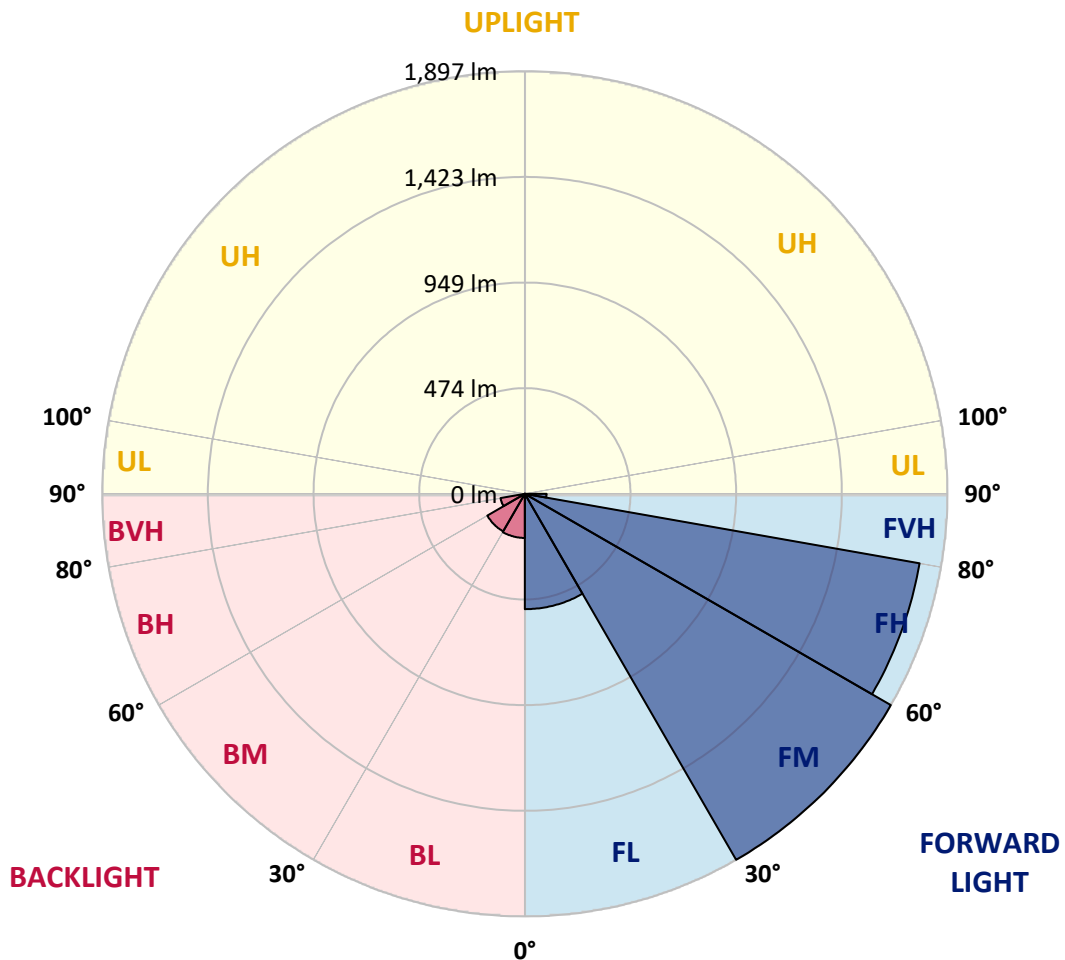


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	517.9	10.8			
FM (30°-60°)	1897.4	39.4			
FH (60°-80°)	1799.9	37.4			G1/1800
FVH (80°-90°)	97.4	2.0			G1/100
BL (0°-30°)	198.2	4.1	B1/500		
BM (30°-60°)	194.7	4.0	B0/220		
BH (60°-80°)	110.5	2.3	B1/500		G1/500
BVH (80°-90°)	1.0	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°	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3
2.5°	1522.4	1528.1	1514.5	1530.3	1515.7	1522.4	1514.5	1512.3	1513.4	1514.5	1505.5
5°	1451.3	1464.8	1470.5	1461.5	1482.9	1479.5	1493.1	1494.2	1488.6	1482.9	1484.0
7.5°	1357.5	1371.1	1376.7	1382.4	1403.9	1432.1	1450.2	1438.9	1447.9	1468.2	1437.7
10°	1289.8	1286.4	1285.3	1296.6	1337.2	1360.9	1391.4	1388.0	1410.6	1429.8	1405.0
12.5°	1206.2	1199.4	1219.8	1228.8	1264.9	1306.7	1330.4	1355.3	1377.9	1398.2	1370.0
15°	1144.1	1149.7	1157.6	1176.8	1202.8	1258.2	1293.2	1316.9	1357.5	1367.7	1356.4
17.5°	1094.4	1098.9	1110.2	1120.4	1153.1	1206.2	1261.5	1289.8	1332.7	1359.8	1324.8
20°	1095.5	1082.0	1082.0	1092.1	1110.2	1173.5	1232.2	1241.2	1299.9	1346.3	1322.5
22.5°	1096.7	1092.1	1082.0	1080.8	1088.7	1133.9	1193.8	1214.1	1277.4	1331.6	1303.3
25°	1112.5	1095.5	1096.7	1080.8	1084.2	1106.8	1154.3	1184.7	1257.0	1339.5	1293.2
27.5°	1126.0	1133.9	1118.1	1111.3	1092.1	1091.0	1130.5	1156.5	1246.9	1357.5	1299.9
30°	1156.5	1162.2	1162.2	1157.6	1139.6	1113.6	1122.6	1155.4	1226.5	1354.2	1288.7
32.5°	1207.3	1197.2	1210.7	1203.9	1180.2	1139.6	1147.5	1164.4	1239.0	1397.1	1306.7
35°	1224.3	1232.2	1250.3	1235.6	1227.7	1203.9	1188.1	1200.6	1257.0	1440.0	1333.8
37.5°	1276.2	1264.9	1277.4	1310.1	1318.0	1275.1	1244.6	1262.7	1324.8	1490.8	1358.7
40°	1280.7	1289.8	1312.4	1376.7	1384.7	1366.6	1341.7	1346.3	1392.6	1556.3	1420.8
42.5°	1303.3	1313.5	1359.8	1414.0	1456.9	1460.3	1442.3	1442.3	1481.8	1661.4	1489.7
45°	1347.4	1330.4	1390.3	1481.8	1543.9	1556.3	1580.0	1574.4	1606.0	1772.0	1618.4
47.5°	1364.3	1370.0	1435.5	1546.2	1617.3	1674.9	1714.4	1715.6	1731.4	1913.2	1785.6
50°	1419.7	1418.5	1497.6	1600.4	1705.4	1810.4	1887.2	1887.2	1886.1	2051.0	1929.0
52.5°	1493.1	1490.8	1551.8	1673.8	1810.4	1942.6	2044.2	2047.6	2073.6	2220.4	2093.9
55°	1612.8	1602.6	1661.4	1751.7	1915.5	2075.9	2252.0	2253.2	2232.8	2341.3	2212.5
57.5°	1713.3	1712.2	1760.7	1847.7	2032.9	2247.5	2451.9	2482.4	2418.1	2465.5	2307.4
60°	1687.3	1702.0	1802.5	1931.3	2157.2	2462.1	2667.7	2715.1	2612.3	2550.2	2378.5
62.5°	1525.8	1559.7	1669.3	1874.8	2262.2	2773.8	2964.7	2943.2	2714.0	2622.5	2465.5
65°	1097.8	1131.7	1267.2	1575.5	2140.2	2994.1	3355.5	3258.3	2894.7	2729.8	2581.8
67.5°	646.0	659.6	744.3	1005.2	1600.4	2874.3	3829.8	3837.7	3250.4	2894.7	2782.9
70°	466.4	476.6	509.4	592.9	886.6	2253.2	4094.1	4299.7	3744.0	3084.4	2676.7
72.5°	358.0	358.0	413.4	493.6	564.7	1349.6	3767.7	4179.9	3851.3	2902.6	2157.2
75°	257.5	264.3	324.1	424.7	520.7	677.6	2776.1	3317.1	3264.0	2352.6	1506.6
77.5°	148.0	151.3	228.1	355.8	489.0	465.3	1715.6	2248.7	2311.9	1472.7	652.8
80°	75.7	77.9	127.6	281.2	442.7	405.5	1023.2	1480.7	1255.9	428.0	151.3
82.5°	37.3	37.3	57.6	179.6	376.1	359.2	602.0	817.7	445.0	98.3	63.2
85°	12.4	13.6	26.0	101.6	272.2	216.8	368.2	388.5	149.1	37.3	35.0
87.5°	3.4	4.5	6.8	37.3	118.6	142.3	219.1	248.5	61.0	14.7	16.9
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°	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3
2.5°	1471.6	1463.7	1454.7	1432.1	1414.0	1390.3	1374.5	1362.1	1338.3	1342.9	1332.7
5°	1456.9	1442.3	1390.3	1340.6	1295.4	1226.5	1179.1	1148.6	1123.8	1098.9	1117.0
7.5°	1431.0	1395.9	1314.6	1222.0	1126.0	1035.7	945.3	891.1	851.6	815.4	814.3
10°	1386.9	1330.4	1202.8	1082.0	934.0	815.4	700.2	609.9	551.2	508.2	507.1
12.5°	1337.2	1278.5	1118.1	921.6	751.1	583.9	446.1	350.1	294.8	260.9	256.4
15°	1305.6	1219.8	1011.9	779.3	568.1	380.6	247.3	187.5	166.0	158.1	158.1
17.5°	1264.9	1166.7	906.9	631.3	394.2	220.2	160.4	144.6	143.4	141.2	138.9
20°	1248.0	1126.0	813.2	503.7	249.6	155.9	137.8	134.4	134.4	132.1	129.9
22.5°	1202.8	1067.3	713.8	369.3	166.0	136.7	129.9	125.4	123.1	120.8	123.1
25°	1182.5	1025.5	620.0	255.2	135.5	122.0	118.6	114.1	110.7	109.6	109.6
27.5°	1168.9	983.7	528.6	177.3	119.7	111.8	105.0	101.6	97.1	92.6	92.6
30°	1158.8	951.0	440.5	131.0	107.3	99.4	93.7	85.8	80.2	75.7	75.7
32.5°	1145.2	912.6	352.4	111.8	97.1	89.2	79.1	72.3	64.4	61.0	61.0
35°	1149.7	886.6	276.7	99.4	87.0	76.8	67.8	58.7	50.8	47.4	46.3
37.5°	1158.8	867.4	210.1	89.2	77.9	66.6	56.5	46.3	41.8	37.3	37.3
40°	1197.2	861.7	154.7	82.4	71.2	58.7	47.4	38.4	33.9	30.5	29.4
42.5°	1261.5	869.6	119.7	74.5	64.4	49.7	39.5	31.6	27.1	23.7	22.6
45°	1344.0	900.1	98.3	70.0	56.5	41.8	31.6	26.0	20.3	18.1	18.1
47.5°	1463.7	947.6	85.8	64.4	49.7	35.0	27.1	20.3	15.8	13.6	13.6
50°	1599.2	1001.8	75.7	57.6	42.9	29.4	21.5	15.8	11.3	10.2	10.2
52.5°	1734.8	1070.7	70.0	53.1	37.3	23.7	16.9	11.3	7.9	6.8	6.8
55°	1877.1	1131.7	63.2	49.7	30.5	19.2	12.4	6.8	4.5	3.4	3.4
57.5°	1976.5	1155.4	55.3	42.9	23.7	14.7	9.0	4.5	2.3	1.1	1.1
60°	2047.6	1158.8	47.4	35.0	18.1	11.3	5.6	2.3	1.1	0.0	0.0
62.5°	2107.5	1165.5	40.7	27.1	13.6	7.9	3.4	1.1	0.0	0.0	0.0
65°	2226.1	1159.9	32.8	21.5	9.0	4.5	2.3	0.0	0.0	0.0	0.0
67.5°	2319.8	1103.4	26.0	14.7	5.6	2.3	1.1	0.0	0.0	0.0	0.0
70°	2052.1	841.4	20.3	10.2	3.4	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	1611.7	561.3	13.6	5.6	2.3	1.1	0.0	0.0	0.0	0.0	0.0
75°	1057.1	279.0	10.2	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	411.1	73.4	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	99.4	24.8	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	42.9	9.0	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.0	4.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.6	2.3	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)