

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: P677167

Luminaire Tested: **CCW-SA-2B-760-U-SL4-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677167  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-760-U-SL4-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
SL4 distribution lens and House Side Shield  
Light Source: (32) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5835.3 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

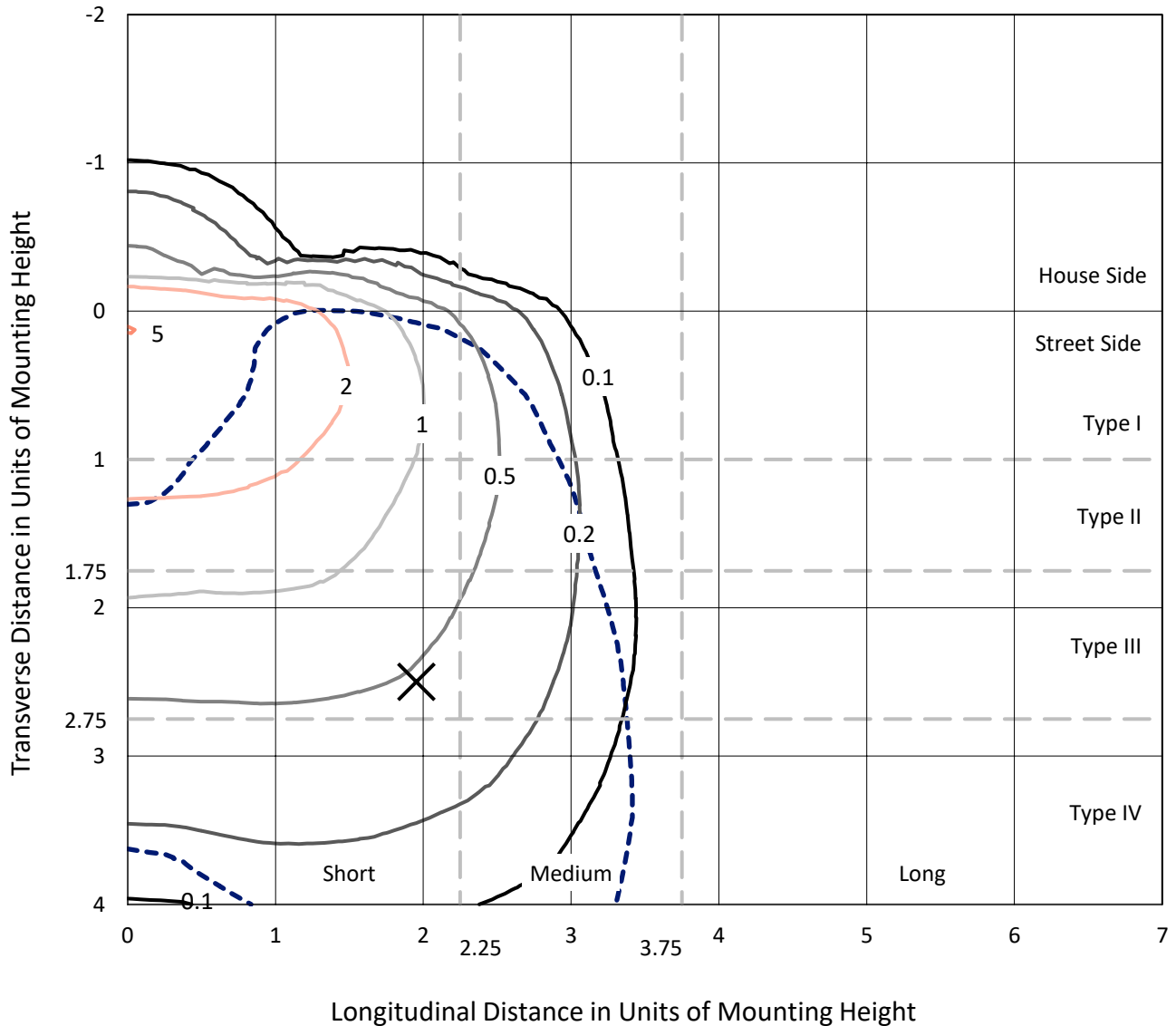
Input Watts (W): 46  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

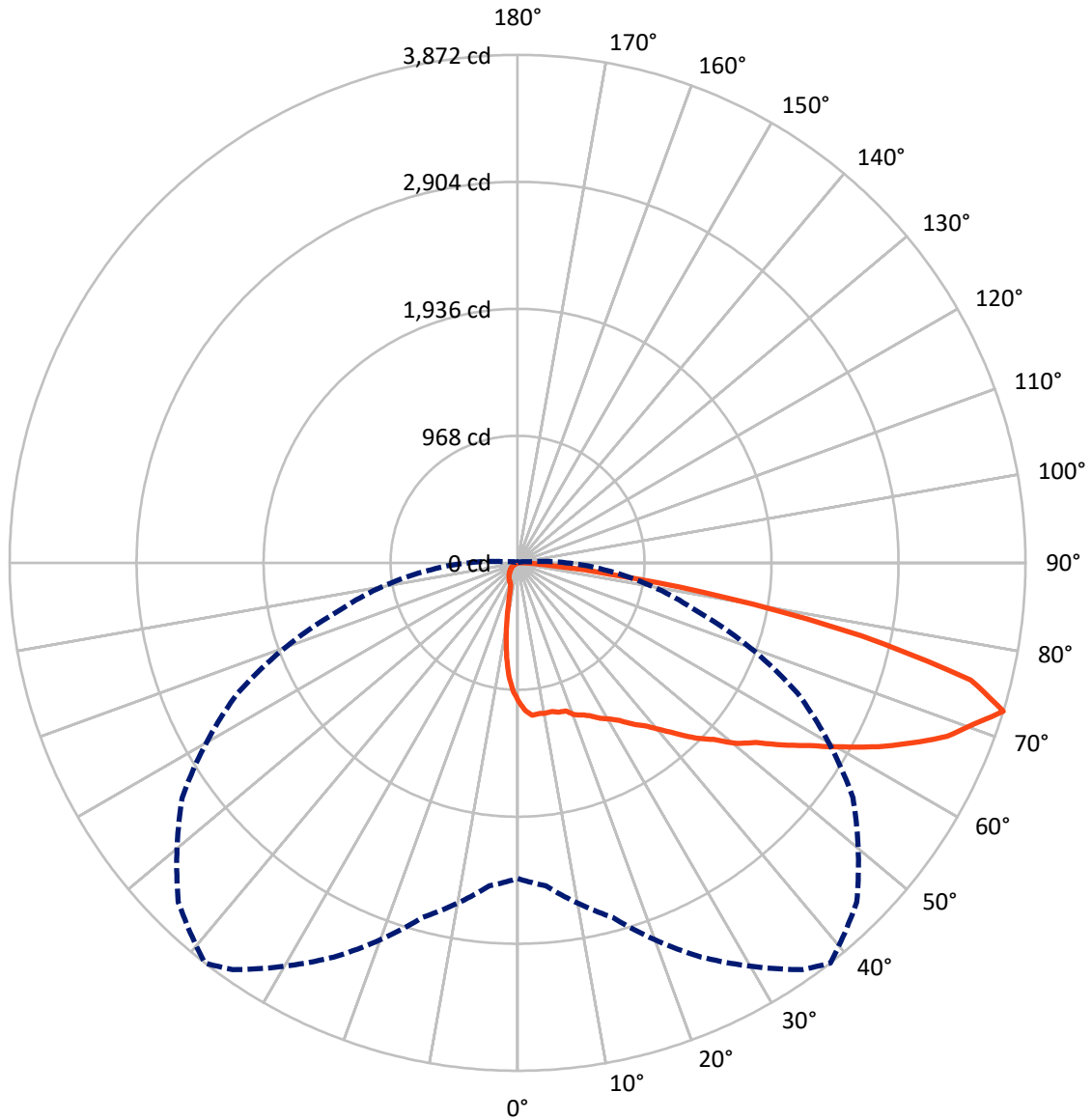
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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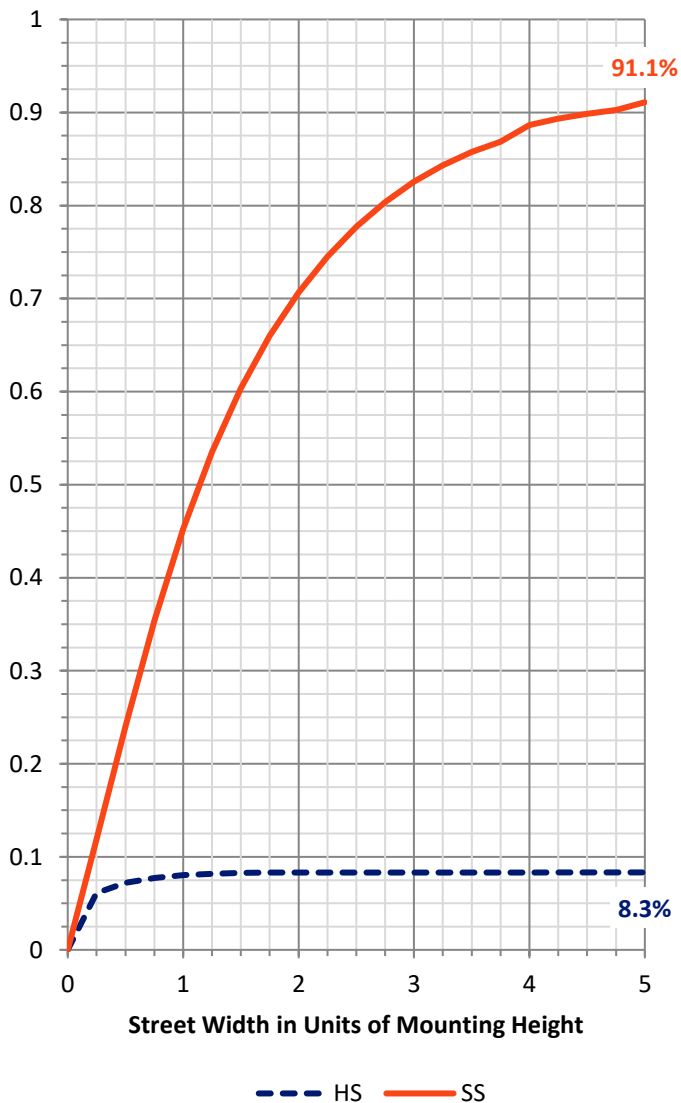
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	488.7	0.0	488.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	5346.6	0.0	5346.6
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	5835.3	0.0	5835.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.4	1.6
10°-20°	226.1	3.9
20°-30°	362.5	6.2
30°-40°	547.4	9.4
40°-50°	833.1	14.3
50°-60°	1172.8	20.1
60°-70°	1432.6	24.6
70°-80°	1040.3	17.8
80°-90°	128.1	2.2
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°	5835.3	100.0
0°-180°	5835.3	100.0

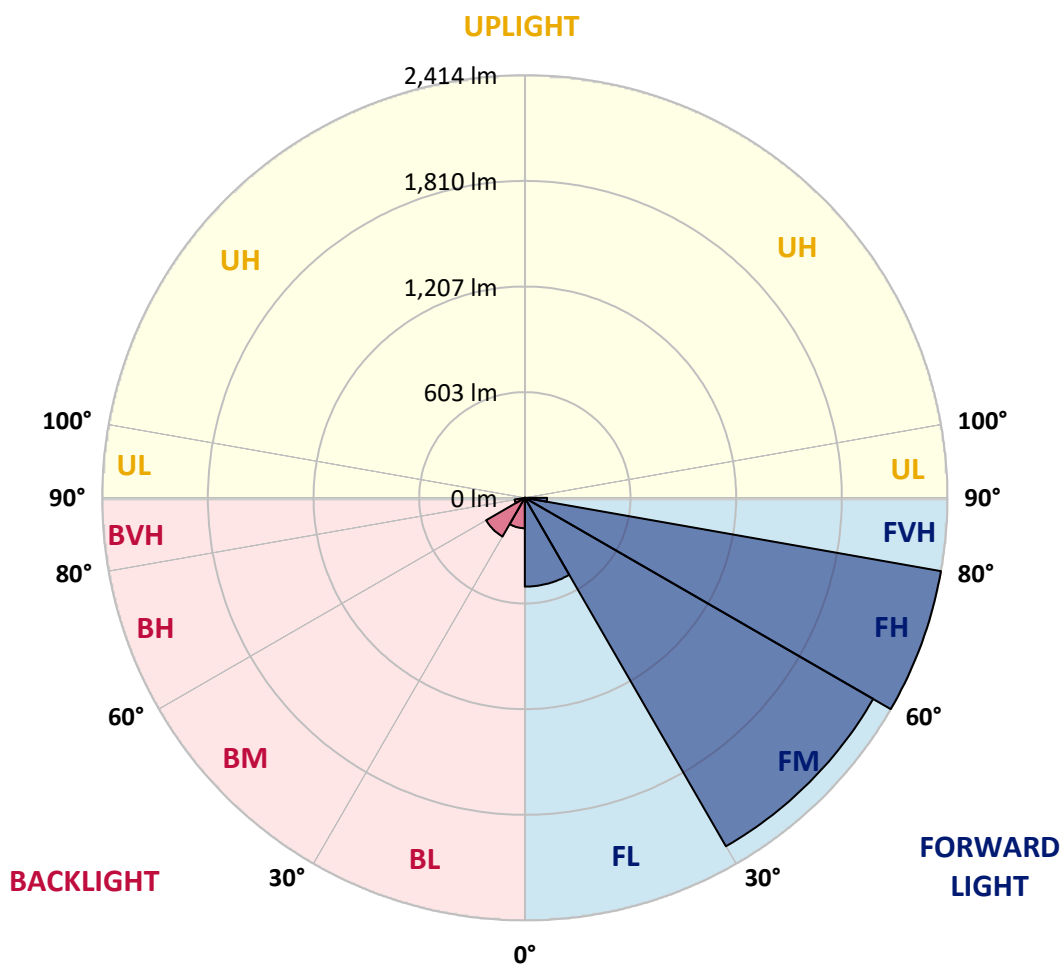


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	507.5	8.7			
FM (30°-60°)	2298.0	39.4			
FH (60°-80°)	2413.7	41.4			G2/5000
FVH (80°-90°)	127.5	2.2			G2/225
BL (0°-30°)	173.5	3.0	B1/500		
BM (30°-60°)	255.3	4.4	B1/1000		
BH (60°-80°)	59.3	1.0	B0/110		G0/110
BVH (80°-90°)	0.7	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-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3
2.5°	1159.3	1159.3	1170.2	1159.3	1155.2	1129.2	1130.5	1116.8	1103.2	1084.0	1066.2
5°	1173.0	1182.5	1189.4	1179.8	1164.8	1167.5	1177.1	1151.1	1114.1	1090.8	1051.2
7.5°	1167.5	1188.0	1182.5	1177.1	1167.5	1160.6	1147.0	1136.0	1118.2	1096.3	1049.8
10°	1163.4	1170.2	1171.6	1167.5	1147.0	1166.1	1151.1	1133.3	1111.4	1085.4	1027.9
12.5°	1148.3	1148.3	1160.6	1151.1	1153.8	1163.4	1156.5	1152.4	1129.2	1107.3	1056.6
15°	1131.9	1137.4	1156.5	1171.6	1185.3	1181.2	1177.1	1164.8	1144.2	1119.6	1066.2
17.5°	1136.0	1138.7	1168.9	1196.2	1189.4	1186.7	1208.6	1182.5	1162.0	1134.6	1074.4
20°	1151.1	1159.3	1193.5	1229.1	1235.9	1235.9	1227.7	1212.7	1183.9	1147.0	1089.5
22.5°	1166.1	1168.9	1225.0	1270.1	1277.0	1259.2	1266.0	1222.2	1194.9	1174.3	1104.5
25°	1223.6	1218.1	1278.4	1313.9	1309.8	1292.0	1285.2	1246.9	1235.9	1199.0	1137.4
27.5°	1301.6	1278.4	1337.2	1359.1	1337.2	1342.7	1323.5	1282.5	1259.2	1237.3	1152.4
30°	1349.5	1363.2	1394.7	1416.6	1379.6	1381.0	1371.4	1326.3	1290.7	1296.1	1203.1
32.5°	1423.4	1433.0	1456.3	1465.9	1437.1	1434.4	1424.8	1389.2	1363.2	1357.7	1271.5
35°	1502.8	1520.6	1522.0	1524.7	1498.7	1509.7	1496.0	1445.3	1459.0	1468.6	1353.6
37.5°	1580.8	1564.4	1591.8	1604.1	1575.4	1575.4	1579.5	1545.2	1569.9	1598.6	1470.0
40°	1610.9	1617.8	1665.7	1656.1	1690.3	1669.8	1684.9	1676.6	1697.2	1762.9	1634.2
42.5°	1642.4	1650.6	1715.0	1732.8	1773.8	1780.7	1802.6	1803.9	1864.2	1972.3	1791.6
45°	1702.6	1689.0	1776.6	1820.4	1887.4	1906.6	1932.6	1954.5	2048.9	2176.2	1970.9
47.5°	1757.4	1738.2	1838.1	1925.7	2007.9	2012.0	2083.1	2106.4	2218.6	2363.7	2148.8
50°	1834.0	1840.9	1883.3	2033.9	2117.4	2165.3	2214.5	2291.2	2415.7	2570.4	2277.5
52.5°	1913.4	1906.6	1977.8	2125.6	2257.0	2274.8	2385.6	2471.9	2607.4	2723.7	2335.0
55°	2010.6	2018.8	2046.2	2240.5	2407.5	2450.0	2574.5	2664.8	2812.7	2789.4	2354.1
57.5°	2107.8	2099.6	2161.2	2369.2	2596.4	2627.9	2793.5	2846.9	2946.8	2833.2	2306.2
60°	2203.6	2218.6	2244.6	2514.3	2803.1	2849.6	2981.0	3008.4	3030.3	2853.7	2269.3
62.5°	2313.1	2277.5	2358.2	2667.6	2989.2	3086.4	3190.4	3082.3	3063.1	2816.8	2184.4
65°	2367.8	2378.8	2484.2	2842.8	3236.9	3308.1	3321.8	3182.2	3083.7	2734.6	2105.0
67.5°	2452.7	2467.7	2601.9	3022.1	3491.5	3531.2	3481.9	3272.5	3065.9	2627.9	1819.0
70°	2463.6	2500.6	2759.3	3209.6	3651.7	3685.9	3647.6	3332.8	2922.1	2207.7	1346.8
72.5°	2406.2	2471.9	2797.6	3316.3	3785.8	3872.0	3657.1	3120.6	2355.5	1408.4	689.8
75°	1817.6	1872.4	2560.8	3157.6	3547.6	3568.2	3210.9	2381.5	1341.3	480.4	176.6
77.5°	941.7	1036.1	1709.5	2413.0	2703.2	2681.3	2235.1	1402.9	461.2	125.9	71.2
80°	540.6	563.9	747.3	1355.0	1699.9	1616.4	1235.9	605.0	202.6	63.0	46.5
82.5°	266.9	299.7	402.4	606.3	850.0	699.4	464.0	362.7	113.6	34.2	41.1
85°	57.5	60.2	205.3	290.2	344.9	227.2	158.8	305.2	41.1	20.5	39.7
87.5°	41.1	39.7	57.5	130.0	95.8	58.9	94.4	160.1	9.6	9.6	8.2
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°	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3
2.5°	1055.3	1042.9	1029.3	1003.2	996.4	992.3	969.0	967.7	963.6	954.0	949.9
5°	1026.5	1006.0	980.0	952.6	930.7	891.0	843.1	818.5	788.4	789.7	780.2
7.5°	1022.4	984.1	947.1	889.6	819.8	745.9	672.0	624.1	589.9	569.4	573.5
10°	1003.2	974.5	914.3	807.5	695.3	583.1	488.6	417.4	376.4	344.9	354.5
12.5°	1011.5	955.3	870.5	728.1	568.0	429.8	312.1	243.6	213.5	202.6	205.3
15°	1006.0	955.3	844.5	641.9	446.2	291.5	202.6	180.7	175.2	175.2	172.5
17.5°	1022.4	966.3	800.7	557.1	320.3	194.4	173.8	169.7	165.6	165.6	165.6
20°	1045.7	971.8	770.6	462.6	225.8	171.1	162.9	160.1	158.8	158.8	157.4
22.5°	1047.0	966.3	714.5	358.6	173.8	161.5	154.7	153.3	153.3	150.6	150.6
25°	1055.3	971.8	654.2	269.6	161.5	151.9	146.4	145.1	146.4	145.1	143.7
27.5°	1075.8	981.3	594.0	197.1	151.9	143.7	139.6	138.2	138.2	138.2	135.5
30°	1101.8	981.3	526.9	162.9	143.7	135.5	131.4	130.0	128.7	128.7	128.7
32.5°	1156.5	1012.8	444.8	145.1	132.8	125.9	121.8	121.8	120.4	120.4	119.1
35°	1225.0	1034.7	361.3	134.1	123.2	116.3	112.2	112.2	110.9	110.9	109.5
37.5°	1309.8	1089.5	276.5	125.9	113.6	106.8	102.7	102.7	102.7	101.3	101.3
40°	1430.3	1145.6	205.3	115.0	104.0	97.2	94.4	93.1	91.7	91.7	89.0
42.5°	1558.9	1231.8	153.3	106.8	95.8	90.3	86.2	82.1	82.1	78.0	78.0
45°	1698.5	1307.1	124.6	97.2	87.6	80.8	76.6	73.9	69.8	67.1	67.1
47.5°	1835.4	1353.6	109.5	86.2	79.4	73.9	69.8	64.3	58.9	57.5	56.1
50°	1946.3	1367.3	97.2	78.0	72.5	67.1	61.6	54.7	49.3	46.5	45.2
52.5°	1946.3	1292.0	87.6	69.8	65.7	60.2	53.4	45.2	38.3	35.6	34.2
55°	1946.3	1173.0	78.0	64.3	58.9	54.7	45.2	37.0	30.1	26.0	24.6
57.5°	1917.5	1029.3	69.8	57.5	52.0	46.5	38.3	28.7	21.9	17.8	17.8
60°	1838.1	878.7	60.2	50.6	45.2	38.3	30.1	20.5	13.7	9.6	9.6
62.5°	1736.9	699.4	52.0	42.4	37.0	31.5	23.3	13.7	5.5	2.7	2.7
65°	1560.3	516.0	45.2	35.6	28.7	23.3	15.1	5.5	0.0	0.0	0.0
67.5°	1287.9	344.9	35.6	28.7	24.6	16.4	9.6	1.4	0.0	0.0	0.0
70°	906.1	195.7	27.4	20.5	17.8	10.9	2.7	0.0	0.0	0.0	0.0
72.5°	372.3	86.2	19.2	15.1	12.3	5.5	0.0	0.0	0.0	0.0	0.0
75°	101.3	38.3	12.3	8.2	6.8	1.4	0.0	0.0	0.0	0.0	0.0
77.5°	58.9	26.0	5.5	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	46.5	12.3	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	46.5	6.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	0.0	0.0	0.0	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)