

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: P675662

Luminaire Tested: **CCW-SA-2C-722-U-SL4**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675662  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2C-722-U-SL4  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/  
SL4 distribution lens  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

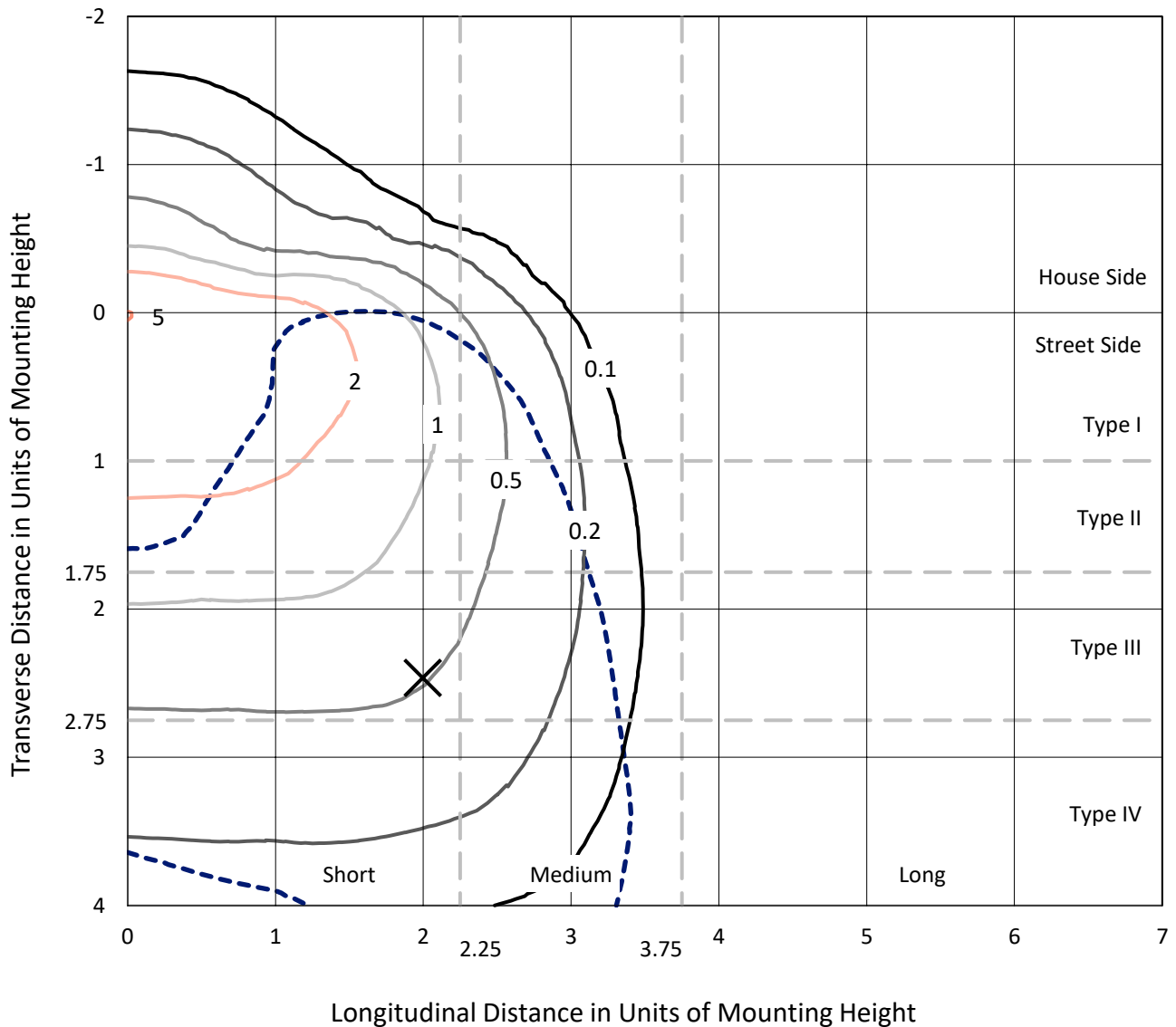
Lumens per Lamp: N/A  
Luminaire Lumens: 6526.3 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1  
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

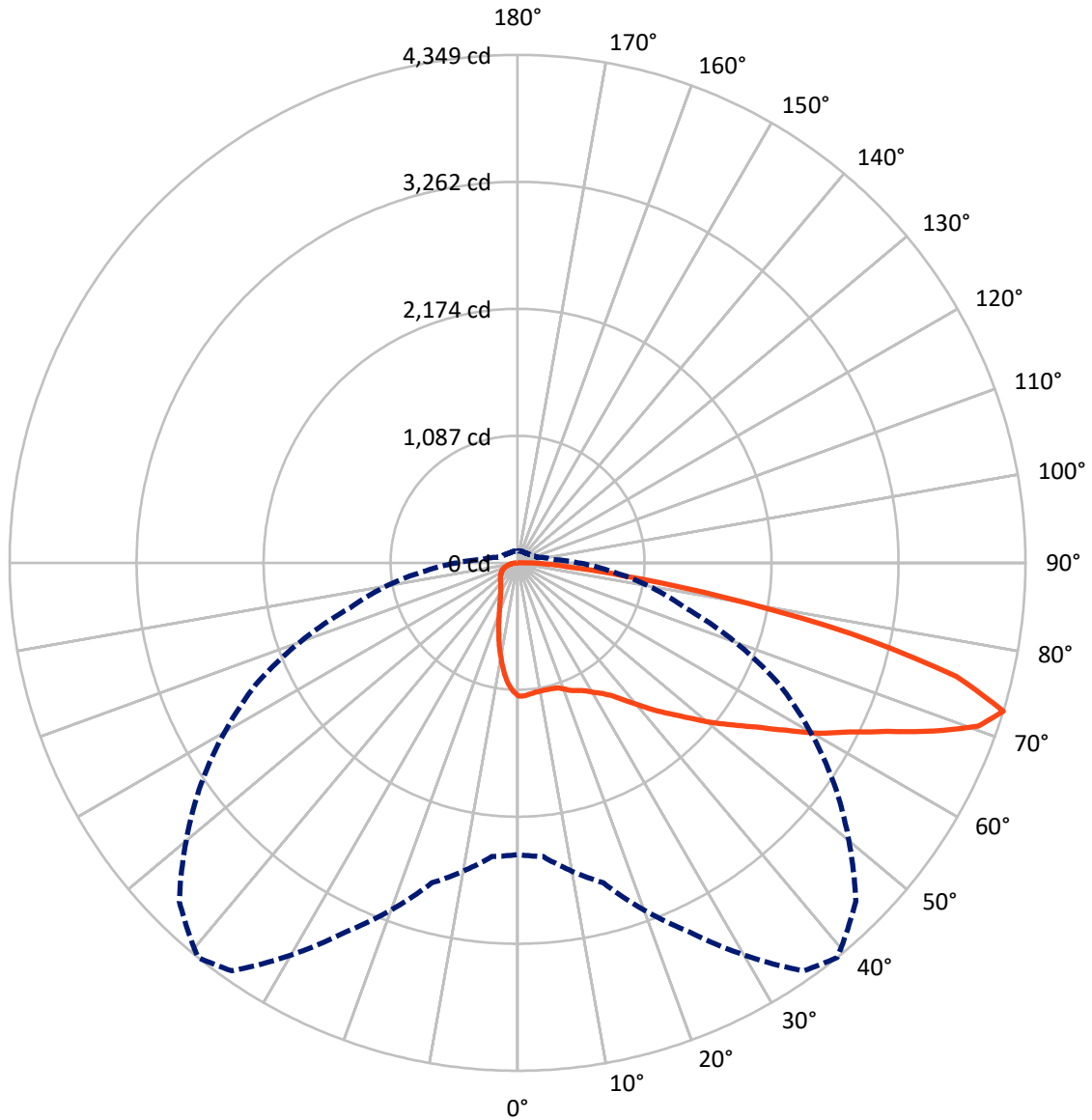
× Max cd  
 - - - 1/2 Max cd



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 39-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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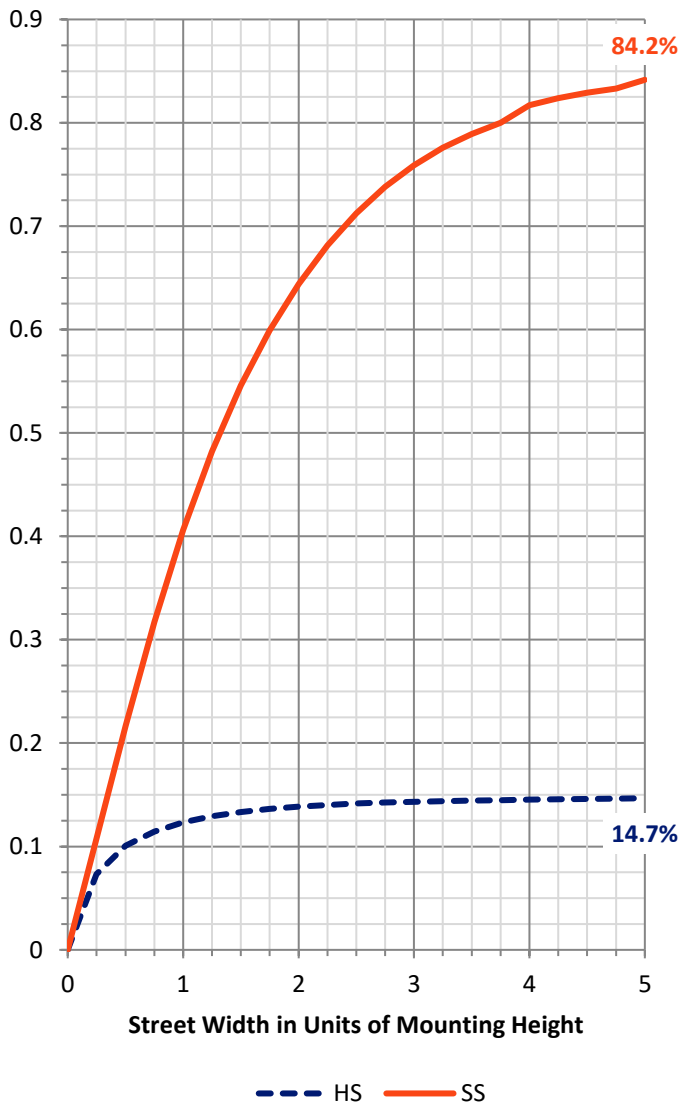
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	969.9	0.0	969.9
	% Fixture	14.9	0.0	14.9
<b>Street Side</b>	Lumens	5556.3	0.0	5556.3
	% Fixture	85.1	0.0	85.1
<b>Total</b>	Lumens	6526.3	0.0	6526.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.9	1.5
10°-20°	257.6	3.9
20°-30°	392.5	6.0
30°-40°	574.2	8.8
40°-50°	879.1	13.5
50°-60°	1289.3	19.8
60°-70°	1644.3	25.2
70°-80°	1188.0	18.2
80°-90°	200.4	3.1
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°	6526.3	100.0
0°-180°	6526.3	100.0

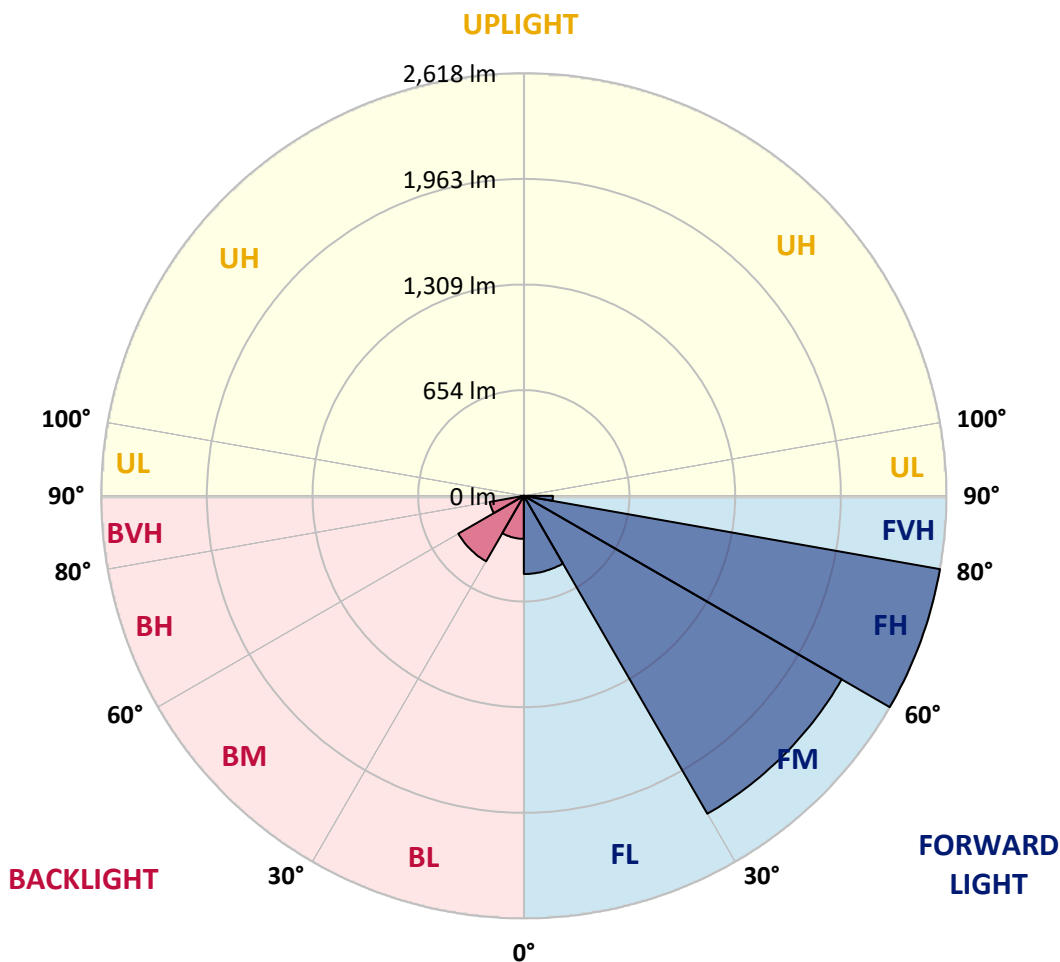


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	484.3	7.4			
FM (30°-60°)	2273.9	34.8			
FH (60°-80°)	2618.0	40.1			G2/5000
FVH (80°-90°)	180.1	2.8			G2/225
BL (0°-30°)	266.7	4.1	B1/500		
BM (30°-60°)	468.6	7.2	B1/1000		
BH (60°-80°)	214.3	3.3	B1/500		G1/500
BVH (80°-90°)	20.3	0.3			G1/100
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°	39°	45°	55°	65°	75°	85°
0°	1142.4	1142.4	1142.4	1142.4	1142.4	1142.4	1142.4	1142.4	1142.4	1142.4	1142.4
2.5°	1159.5	1162.0	1157.1	1152.2	1149.7	1139.9	1149.7	1144.8	1139.9	1139.9	1139.9
5°	1144.8	1147.3	1147.3	1142.4	1144.8	1127.7	1125.2	1127.7	1120.3	1115.4	1113.0
7.5°	1122.8	1127.7	1137.5	1135.0	1125.2	1117.9	1120.3	1117.9	1105.6	1098.3	1078.6
10°	1105.6	1110.5	1115.4	1120.3	1117.9	1115.4	1113.0	1103.2	1100.7	1083.5	1063.9
12.5°	1088.5	1088.5	1090.9	1110.5	1113.0	1113.0	1098.3	1098.3	1090.9	1088.5	1059.0
15°	1071.3	1078.6	1098.3	1103.2	1113.0	1117.9	1110.5	1110.5	1098.3	1081.1	1059.0
17.5°	1076.2	1088.5	1108.1	1120.3	1125.2	1125.2	1135.0	1127.7	1110.5	1100.7	1078.6
20°	1100.7	1103.2	1127.7	1149.7	1154.6	1154.6	1144.8	1137.5	1125.2	1108.1	1078.6
22.5°	1115.4	1132.6	1162.0	1174.3	1189.0	1189.0	1176.7	1159.5	1142.4	1125.2	1093.4
25°	1179.2	1181.6	1193.9	1213.5	1220.8	1211.0	1198.8	1179.2	1157.1	1139.9	1110.5
27.5°	1223.3	1235.5	1250.2	1260.1	1247.8	1240.4	1230.6	1208.6	1191.4	1176.7	1135.0
30°	1304.2	1289.5	1299.3	1304.2	1282.1	1287.0	1260.1	1240.4	1220.8	1220.8	1174.3
32.5°	1353.2	1365.5	1355.7	1353.2	1336.0	1333.6	1316.4	1294.4	1282.1	1296.8	1233.1
35°	1439.0	1431.7	1431.7	1429.2	1409.6	1397.3	1397.3	1358.1	1370.4	1402.2	1323.8
37.5°	1483.1	1480.7	1495.4	1507.7	1488.0	1495.4	1488.0	1470.9	1475.8	1532.2	1436.6
40°	1527.3	1544.4	1573.8	1578.7	1591.0	1600.8	1595.9	1593.5	1613.1	1703.8	1588.6
42.5°	1568.9	1583.6	1627.8	1667.0	1696.4	1728.3	1730.7	1730.7	1794.5	1924.4	1772.4
45°	1622.9	1635.1	1696.4	1774.9	1823.9	1846.0	1865.6	1887.6	1973.4	2127.9	1968.5
47.5°	1696.4	1706.2	1779.8	1877.8	1973.4	1985.7	2024.9	2049.4	2179.4	2336.2	2169.5
50°	1801.8	1794.5	1853.3	1995.5	2088.7	2147.5	2203.9	2248.0	2375.5	2547.1	2326.4
52.5°	1887.6	1887.6	1931.8	2120.5	2248.0	2304.4	2363.2	2424.5	2571.6	2757.9	2453.9
55°	2034.7	2020.0	2047.0	2243.1	2427.0	2480.9	2593.7	2645.1	2787.3	2914.8	2561.8
57.5°	2135.2	2142.6	2174.5	2404.9	2637.8	2704.0	2816.7	2853.5	2978.5	3079.0	2640.2
60°	2267.6	2243.1	2311.7	2583.8	2870.7	2963.8	3057.0	3079.0	3172.2	3184.5	2677.0
62.5°	2395.1	2390.2	2449.0	2762.8	3120.7	3186.9	3282.5	3307.0	3346.3	3267.8	2625.5
65°	2473.5	2505.4	2615.7	2958.9	3405.1	3478.6	3574.2	3525.2	3481.1	3194.3	2373.0
67.5°	2581.4	2596.1	2765.3	3172.2	3733.6	3843.9	3927.3	3733.6	3405.1	2892.7	1997.9
70°	2605.9	2645.1	2865.8	3395.3	4071.9	4184.7	4189.6	3662.5	3128.1	2353.4	1448.8
72.5°	2498.0	2525.0	2836.3	3488.4	4265.6	4348.9	4096.4	3311.9	2478.4	1483.1	789.4
75°	2100.9	2176.9	2468.6	3201.6	3910.1	3878.2	3471.3	2527.5	1488.0	657.0	333.4
77.5°	1463.5	1466.0	1770.0	2328.9	2927.1	2919.7	2476.0	1466.0	637.4	264.8	196.1
80°	649.6	696.2	880.1	1255.2	1777.3	1777.3	1443.9	728.1	318.7	171.6	134.8
82.5°	382.4	397.1	470.7	585.9	865.4	911.9	691.3	485.4	218.2	107.9	83.3
85°	281.9	306.4	350.6	353.0	409.4	416.7	382.4	421.7	149.5	58.8	68.6
87.5°	210.8	225.5	279.5	232.9	218.2	205.9	235.3	431.5	56.4	29.4	22.1
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°	1142.4	1142.4	1142.4	1142.4	1142.4	1142.4	1142.4	1142.4	1142.4	1142.4	1142.4
2.5°	1130.1	1130.1	1125.2	1115.4	1115.4	1095.8	1100.7	1105.6	1093.4	1093.4	1095.8
5°	1113.0	1103.2	1090.9	1076.2	1066.4	1039.4	1034.5	1017.4	1014.9	1010.0	1002.7
7.5°	1078.6	1063.9	1041.9	1019.8	987.9	963.4	934.0	909.5	899.7	892.3	889.9
10°	1046.8	1044.3	1007.6	963.4	914.4	867.8	823.7	791.8	772.2	760.0	757.5
12.5°	1046.8	1027.2	975.7	914.4	843.3	774.7	718.3	674.2	647.2	627.6	620.2
15°	1041.9	1022.3	953.6	860.5	779.6	686.4	608.0	561.4	522.2	502.6	505.0
17.5°	1046.8	1017.4	921.8	821.2	708.5	608.0	514.8	458.4	419.2	404.5	402.0
20°	1049.2	1012.5	897.2	767.3	634.9	522.2	433.9	380.0	350.6	340.8	340.8
22.5°	1044.3	997.7	860.5	703.6	571.2	451.1	377.5	330.9	311.3	299.1	304.0
25°	1066.4	995.3	826.1	649.6	497.6	392.2	335.9	301.5	289.3	281.9	284.4
27.5°	1071.3	995.3	799.2	588.4	433.9	348.1	304.0	281.9	272.1	267.2	264.8
30°	1090.9	1000.2	767.3	527.1	382.4	313.8	279.5	267.2	259.9	257.4	257.4
32.5°	1144.8	1014.9	733.0	475.6	338.3	284.4	262.3	252.5	247.6	245.1	247.6
35°	1208.6	1054.1	696.2	421.7	306.4	264.8	247.6	240.2	237.8	237.8	237.8
37.5°	1306.6	1113.0	664.3	377.5	279.5	245.1	232.9	230.4	228.0	230.4	230.4
40°	1419.4	1176.7	634.9	343.2	259.9	232.9	220.6	220.6	218.2	220.6	223.1
42.5°	1549.3	1255.2	605.5	308.9	242.7	223.1	213.3	210.8	208.4	213.3	215.7
45°	1728.3	1363.0	585.9	289.3	230.4	213.3	203.5	203.5	201.0	201.0	205.9
47.5°	1877.8	1466.0	585.9	269.7	223.1	205.9	196.1	196.1	191.2	193.7	193.7
50°	2002.8	1554.2	598.2	264.8	213.3	198.6	191.2	186.3	183.9	183.9	183.9
52.5°	2086.2	1608.2	608.0	259.9	208.4	188.8	183.9	181.4	176.5	174.1	176.5
55°	2169.5	1644.9	610.4	259.9	201.0	179.0	174.1	174.1	169.2	166.7	166.7
57.5°	2201.4	1630.2	576.1	255.0	196.1	171.6	166.7	164.2	161.8	159.3	159.3
60°	2186.7	1576.3	500.1	242.7	191.2	166.7	156.9	156.9	156.9	152.0	154.4
62.5°	2086.2	1392.4	402.0	223.1	183.9	156.9	147.1	152.0	152.0	149.5	149.5
65°	1821.4	1149.7	326.0	205.9	174.1	149.5	139.7	147.1	149.5	147.1	144.6
67.5°	1456.2	885.0	269.7	186.3	161.8	137.3	129.9	137.3	139.7	137.3	137.3
70°	1000.2	571.2	218.2	166.7	144.6	125.0	117.7	122.6	122.6	125.0	125.0
72.5°	517.3	308.9	179.0	142.2	125.0	112.8	105.4	105.4	103.0	103.0	103.0
75°	257.4	210.8	149.5	120.1	105.4	95.6	90.7	85.8	85.8	85.8	85.8
77.5°	179.0	161.8	122.6	95.6	85.8	78.4	78.4	71.1	71.1	71.1	71.1
80°	134.8	127.5	93.2	73.5	66.2	61.3	61.3	58.8	58.8	56.4	56.4
82.5°	95.6	103.0	71.1	53.9	49.0	46.6	46.6	44.1	44.1	39.2	39.2
85°	76.0	85.8	53.9	39.2	36.8	31.9	31.9	29.4	29.4	27.0	24.5
87.5°	22.1	46.6	22.1	14.7	14.7	14.7	14.7	12.3	12.3	9.8	9.8
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)