

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: P677154

Luminaire Tested: **CCW-SA-1F-750-U-SL4-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677154  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-750-U-SL4-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/  
SL4 distribution lens and House Side Shield  
Light Source: (16) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

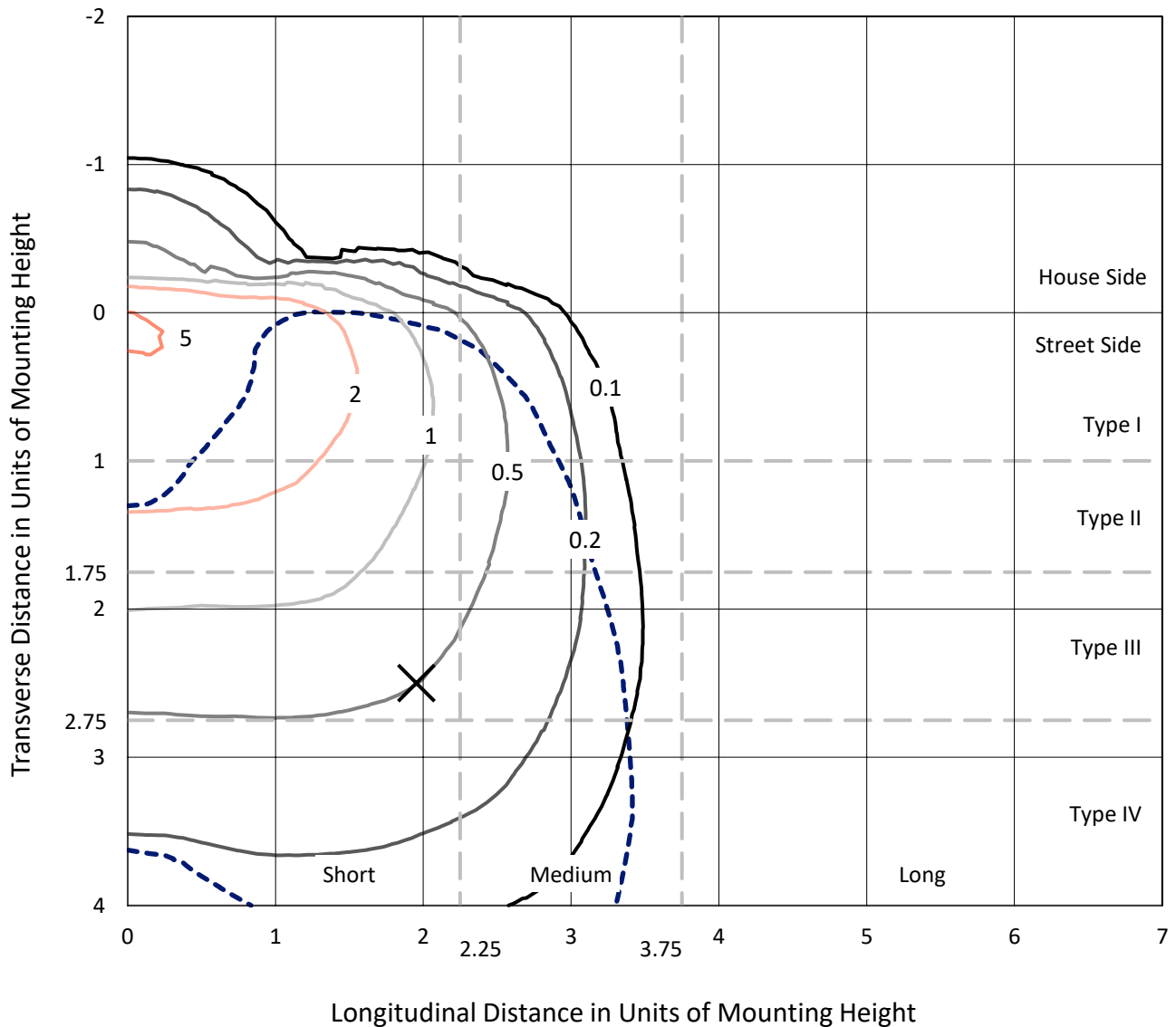
Lumens per Lamp: N/A  
Luminaire Lumens: 6335.1 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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

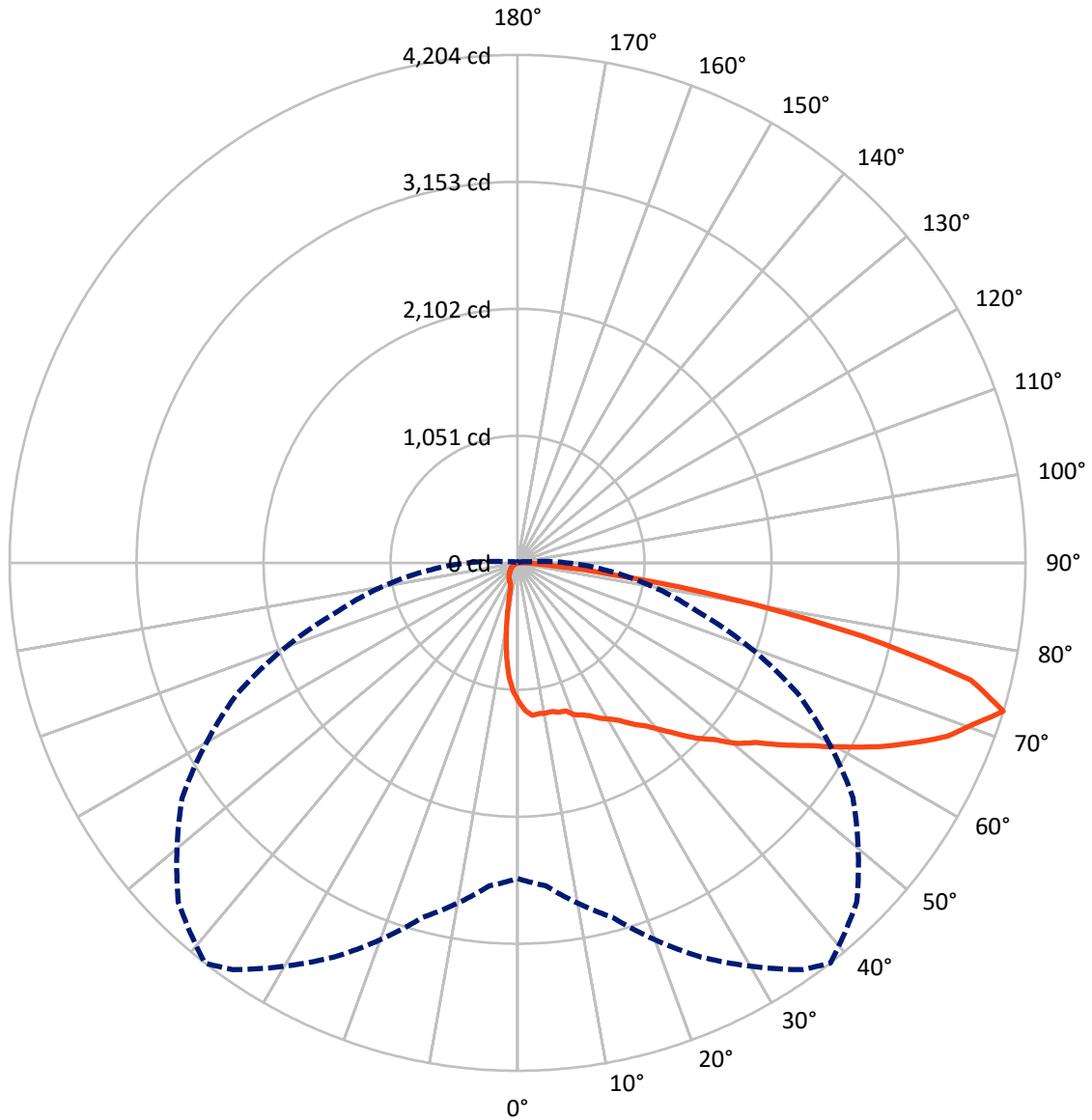
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 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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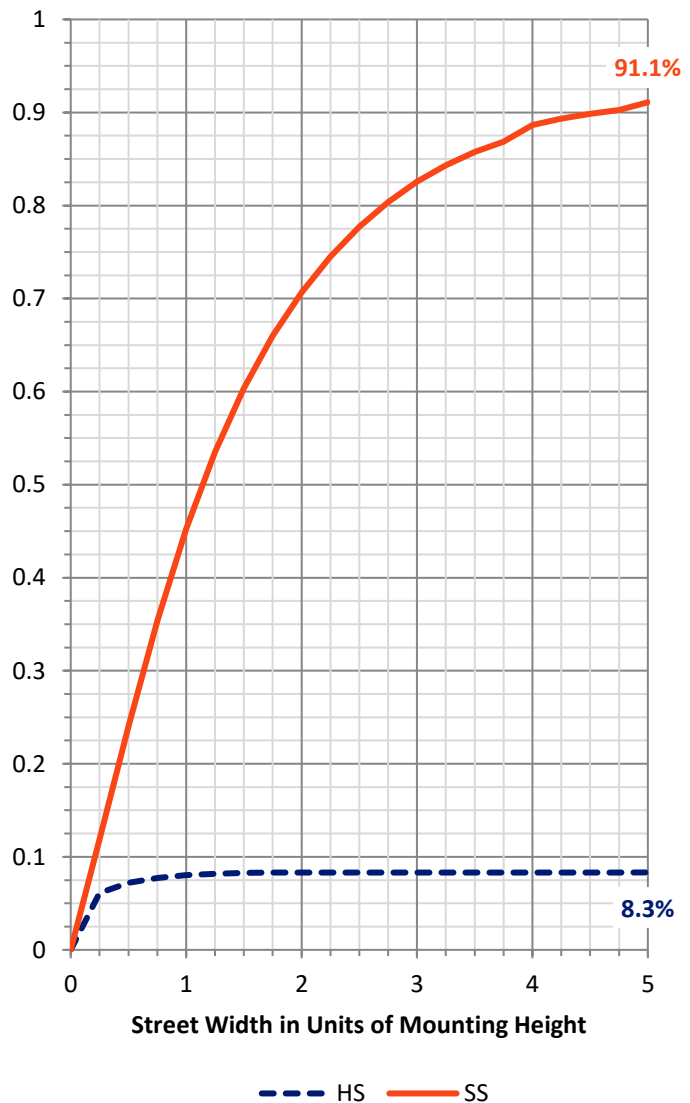
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	530.6	0.0	530.6
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	5804.5	0.0	5804.5
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	6335.1	0.0	6335.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.3	1.6
10°-20°	245.5	3.9
20°-30°	393.6	6.2
30°-40°	594.2	9.4
40°-50°	904.4	14.3
50°-60°	1273.3	20.1
60°-70°	1555.3	24.6
70°-80°	1129.4	17.8
80°-90°	139.1	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°	6335.1	100.0
0°-180°	6335.1	100.0

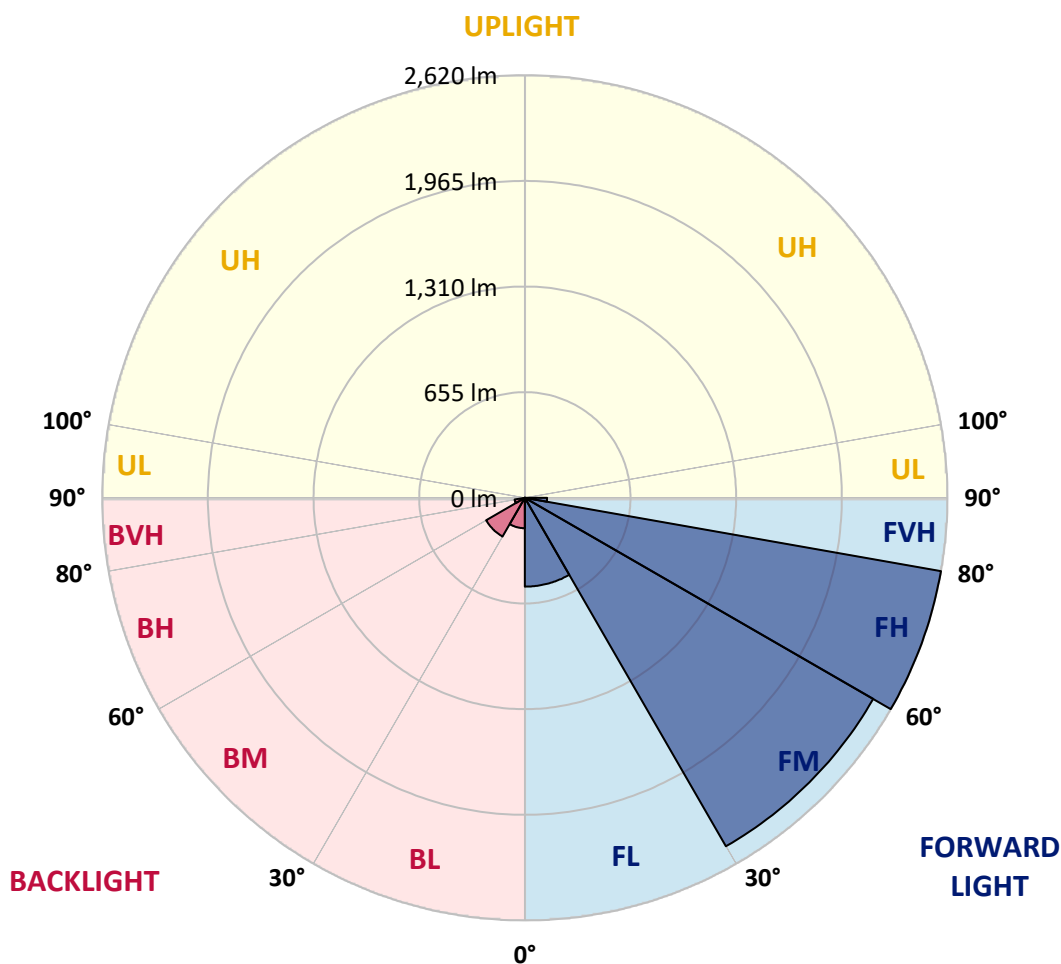


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	551.0	8.7			
FM (30°-60°)	2494.8	39.4			
FH (60°-80°)	2620.4	41.4			G2/5000
FVH (80°-90°)	138.4	2.2			G2/225
BL (0°-30°)	188.4	3.0	B1/500		
BM (30°-60°)	277.2	4.4	B1/1000		
BH (60°-80°)	64.3	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°	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6
2.5°	1258.6	1258.6	1270.5	1258.6	1254.1	1225.9	1227.4	1212.5	1197.6	1176.8	1157.5
5°	1273.4	1283.8	1291.3	1280.9	1264.5	1267.5	1277.9	1249.6	1209.5	1184.3	1141.2
7.5°	1267.5	1289.8	1283.8	1277.9	1267.5	1260.0	1245.2	1233.3	1214.0	1190.2	1139.7
10°	1263.0	1270.5	1271.9	1267.5	1245.2	1266.0	1249.6	1230.3	1206.6	1178.3	1115.9
12.5°	1246.7	1246.7	1260.0	1249.6	1252.6	1263.0	1255.6	1251.1	1225.9	1202.1	1147.1
15°	1228.8	1234.8	1255.6	1271.9	1286.8	1282.3	1277.9	1264.5	1242.2	1215.5	1157.5
17.5°	1233.3	1236.3	1269.0	1298.7	1291.3	1288.3	1312.1	1283.8	1261.5	1231.8	1166.4
20°	1249.6	1258.6	1295.7	1334.3	1341.8	1341.8	1332.9	1316.5	1285.3	1245.2	1182.8
22.5°	1266.0	1269.0	1329.9	1378.9	1386.4	1367.0	1374.5	1326.9	1297.2	1274.9	1199.1
25°	1328.4	1322.5	1387.8	1426.5	1422.0	1402.7	1395.3	1353.7	1341.8	1301.7	1234.8
27.5°	1413.1	1387.8	1451.7	1475.5	1451.7	1457.7	1436.9	1392.3	1367.0	1343.3	1251.1
30°	1465.1	1480.0	1514.1	1537.9	1497.8	1499.3	1488.9	1439.8	1401.2	1407.2	1306.1
32.5°	1545.3	1555.7	1581.0	1591.4	1560.2	1557.2	1546.8	1508.2	1480.0	1474.0	1380.4
35°	1631.5	1650.8	1652.3	1655.3	1627.1	1639.0	1624.1	1569.1	1584.0	1594.4	1469.6
37.5°	1716.2	1698.4	1728.1	1741.5	1710.3	1710.3	1714.7	1677.6	1704.3	1735.5	1595.9
40°	1748.9	1756.3	1808.3	1797.9	1835.1	1812.8	1829.2	1820.2	1842.5	1913.8	1774.2
42.5°	1783.1	1792.0	1861.8	1881.2	1925.7	1933.2	1956.9	1958.4	2023.8	2141.2	1945.1
45°	1848.5	1833.6	1928.7	1976.3	2049.1	2069.9	2098.1	2121.9	2224.4	2362.6	2139.7
47.5°	1907.9	1887.1	1995.6	2090.7	2179.8	2184.3	2261.6	2286.8	2408.7	2566.2	2332.9
50°	1991.1	1998.5	2044.6	2208.1	2298.7	2350.7	2404.2	2487.4	2622.6	2790.5	2472.5
52.5°	2077.3	2069.9	2147.1	2307.6	2450.3	2469.6	2589.9	2683.5	2830.7	2957.0	2535.0
55°	2182.8	2191.7	2221.4	2432.4	2613.7	2659.8	2795.0	2893.1	3053.5	3028.3	2555.8
57.5°	2288.3	2279.4	2346.2	2572.1	2818.8	2852.9	3032.7	3090.7	3199.2	3075.8	2503.8
60°	2392.3	2408.7	2436.9	2729.6	3043.1	3093.7	3236.3	3266.0	3289.8	3098.1	2463.6
62.5°	2511.2	2472.5	2560.2	2896.0	3245.2	3350.7	3463.6	3346.3	3325.5	3058.0	2371.5
65°	2570.6	2582.5	2696.9	3086.2	3514.2	3591.4	3606.3	3454.7	3347.7	2968.8	2285.3
67.5°	2662.7	2679.1	2824.7	3280.9	3790.5	3833.6	3780.1	3552.8	3328.4	2852.9	1974.8
70°	2674.6	2714.8	2995.6	3484.5	3964.4	4001.5	3959.9	3618.2	3172.4	2396.8	1462.1
72.5°	2612.2	2683.5	3037.2	3600.4	4110.0	4203.6	3970.3	3387.9	2557.2	1529.0	748.9
75°	1973.3	2032.7	2780.1	3428.0	3851.5	3873.8	3485.9	2585.5	1456.2	521.6	191.7
77.5°	1022.3	1124.8	1855.9	2619.7	2934.7	2910.9	2426.5	1523.1	500.8	136.7	77.3
80°	586.9	612.2	811.3	1471.0	1845.5	1754.9	1341.8	656.8	219.9	68.4	50.5
82.5°	289.8	325.4	436.9	658.3	922.7	759.3	503.7	393.8	123.3	37.1	44.6
85°	62.4	65.4	222.9	315.0	374.4	246.7	172.4	331.4	44.6	22.3	43.1
87.5°	44.6	43.1	62.4	141.2	104.0	63.9	102.5	173.9	10.4	10.4	8.9
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°	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6
2.5°	1145.6	1132.3	1117.4	1089.2	1081.7	1077.3	1052.0	1050.5	1046.1	1035.7	1031.2
5°	1114.4	1092.1	1063.9	1034.2	1010.4	967.3	915.3	888.6	855.9	857.4	847.0
7.5°	1110.0	1068.4	1028.2	965.8	890.1	809.8	729.6	677.6	640.4	618.1	622.6
10°	1089.2	1058.0	992.6	876.7	754.8	633.0	530.5	453.2	408.6	374.4	384.8
12.5°	1098.1	1037.2	945.0	790.5	616.7	466.6	338.8	264.5	231.8	219.9	222.9
15°	1092.1	1037.2	916.8	696.9	484.4	316.5	219.9	196.1	190.2	190.2	187.2
17.5°	1110.0	1049.1	869.3	604.8	347.7	211.0	188.7	184.3	179.8	179.8	179.8
20°	1135.2	1055.0	836.6	502.2	245.2	185.7	176.8	173.9	172.4	172.4	170.9
22.5°	1136.7	1049.1	775.6	389.3	188.7	175.3	167.9	166.4	166.4	163.4	163.4
25°	1145.6	1055.0	710.3	292.7	175.3	164.9	159.0	157.5	159.0	157.5	156.0
27.5°	1167.9	1065.4	644.9	214.0	164.9	156.0	151.6	150.1	150.1	150.1	147.1
30°	1196.2	1065.4	572.1	176.8	156.0	147.1	142.6	141.2	139.7	139.7	139.7
32.5°	1255.6	1099.6	482.9	157.5	144.1	136.7	132.2	132.2	130.8	130.8	129.3
35°	1329.9	1123.3	392.3	145.6	133.7	126.3	121.8	121.8	120.4	120.4	118.9
37.5°	1422.0	1182.8	300.2	136.7	123.3	115.9	111.4	111.4	111.4	110.0	110.0
40°	1552.8	1243.7	222.9	124.8	112.9	105.5	102.5	101.0	99.6	99.6	96.6
42.5°	1692.4	1337.3	166.4	115.9	104.0	98.1	93.6	89.2	89.2	84.7	84.7
45°	1844.0	1419.0	135.2	105.5	95.1	87.7	83.2	80.2	75.8	72.8	72.8
47.5°	1992.6	1469.6	118.9	93.6	86.2	80.2	75.8	69.8	63.9	62.4	60.9
50°	2113.0	1484.4	105.5	84.7	78.8	72.8	66.9	59.4	53.5	50.5	49.0
52.5°	2113.0	1402.7	95.1	75.8	71.3	65.4	58.0	49.0	41.6	38.6	37.1
55°	2113.0	1273.4	84.7	69.8	63.9	59.4	49.0	40.1	32.7	28.2	26.7
57.5°	2081.8	1117.4	75.8	62.4	56.5	50.5	41.6	31.2	23.8	19.3	19.3
60°	1995.6	954.0	65.4	55.0	49.0	41.6	32.7	22.3	14.9	10.4	10.4
62.5°	1885.6	759.3	56.5	46.1	40.1	34.2	25.3	14.9	5.9	3.0	3.0
65°	1693.9	560.2	49.0	38.6	31.2	25.3	16.3	5.9	0.0	0.0	0.0
67.5°	1398.2	374.4	38.6	31.2	26.7	17.8	10.4	1.5	0.0	0.0	0.0
70°	983.7	212.5	29.7	22.3	19.3	11.9	3.0	0.0	0.0	0.0	0.0
72.5°	404.2	93.6	20.8	16.3	13.4	5.9	0.0	0.0	0.0	0.0	0.0
75°	110.0	41.6	13.4	8.9	7.4	1.5	0.0	0.0	0.0	0.0	0.0
77.5°	63.9	28.2	5.9	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	50.5	13.4	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	50.5	7.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	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)