

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: P676925

Luminaire Tested: **CCW-SA-2D-840-U-SL2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676925  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-840-U-SL2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SL2 distribution lens and House Side Shield  
Light Source: (32) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

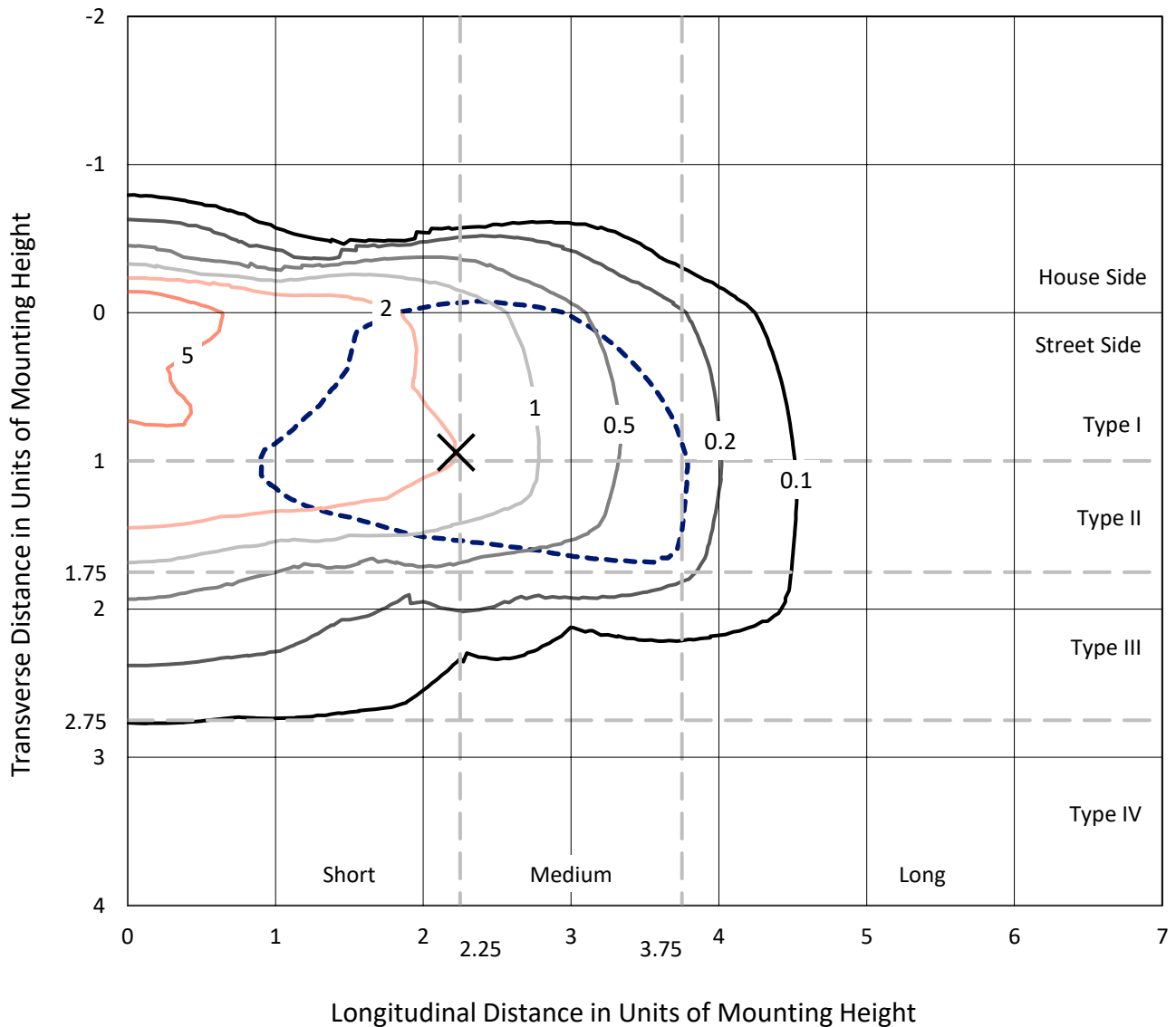
Lumens per Lamp: N/A  
Luminaire Lumens: 7646.6 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8  
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

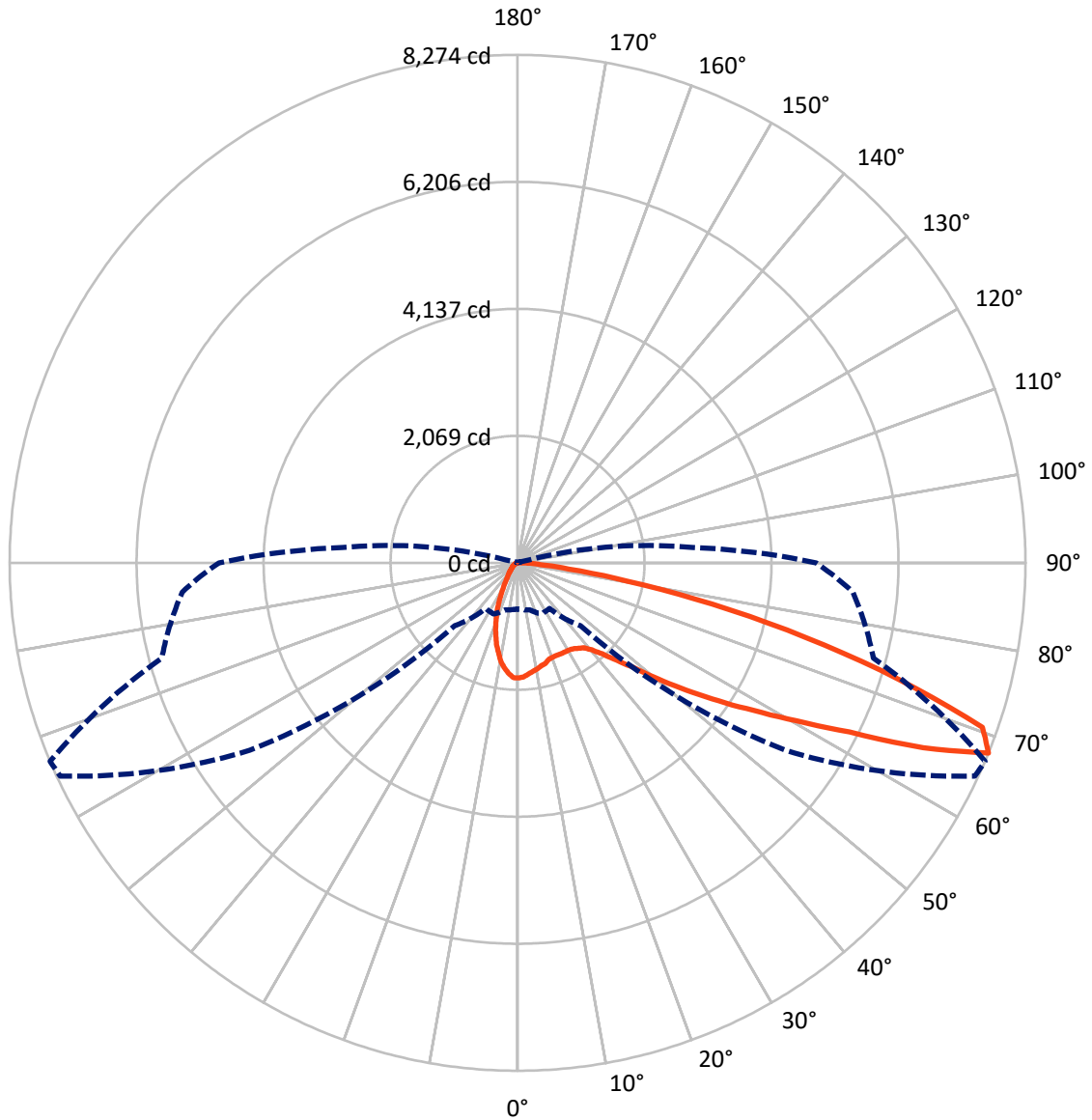
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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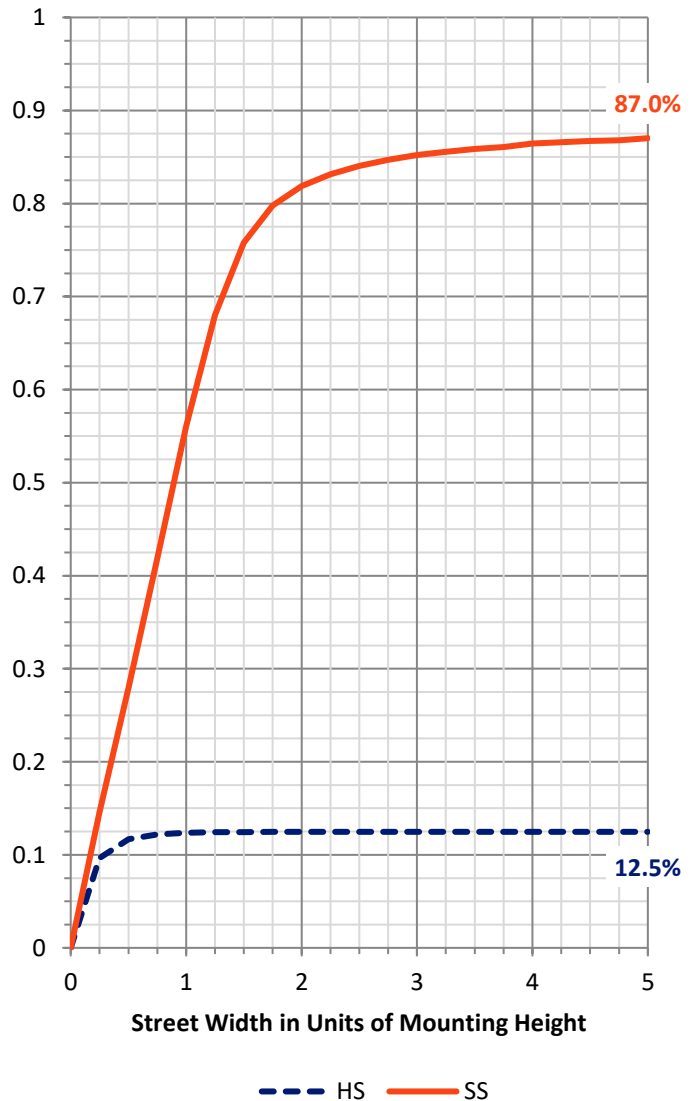
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	962.4	0.0	962.4
	% Fixture	12.6	0.0	12.6
<b>Street Side</b>	Lumens	6684.3	0.0	6684.3
	% Fixture	87.4	0.0	87.4
<b>Total</b>	Lumens	7646.6	0.0	7646.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.0	2.1
10°-20°	351.1	4.6
20°-30°	499.2	6.5
30°-40°	726.9	9.5
40°-50°	1125.0	14.7
50°-60°	1726.5	22.6
60°-70°	1871.5	24.5
70°-80°	1055.8	13.8
80°-90°	132.7	1.7
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°	7646.6	100.0
0°-180°	7646.6	100.0

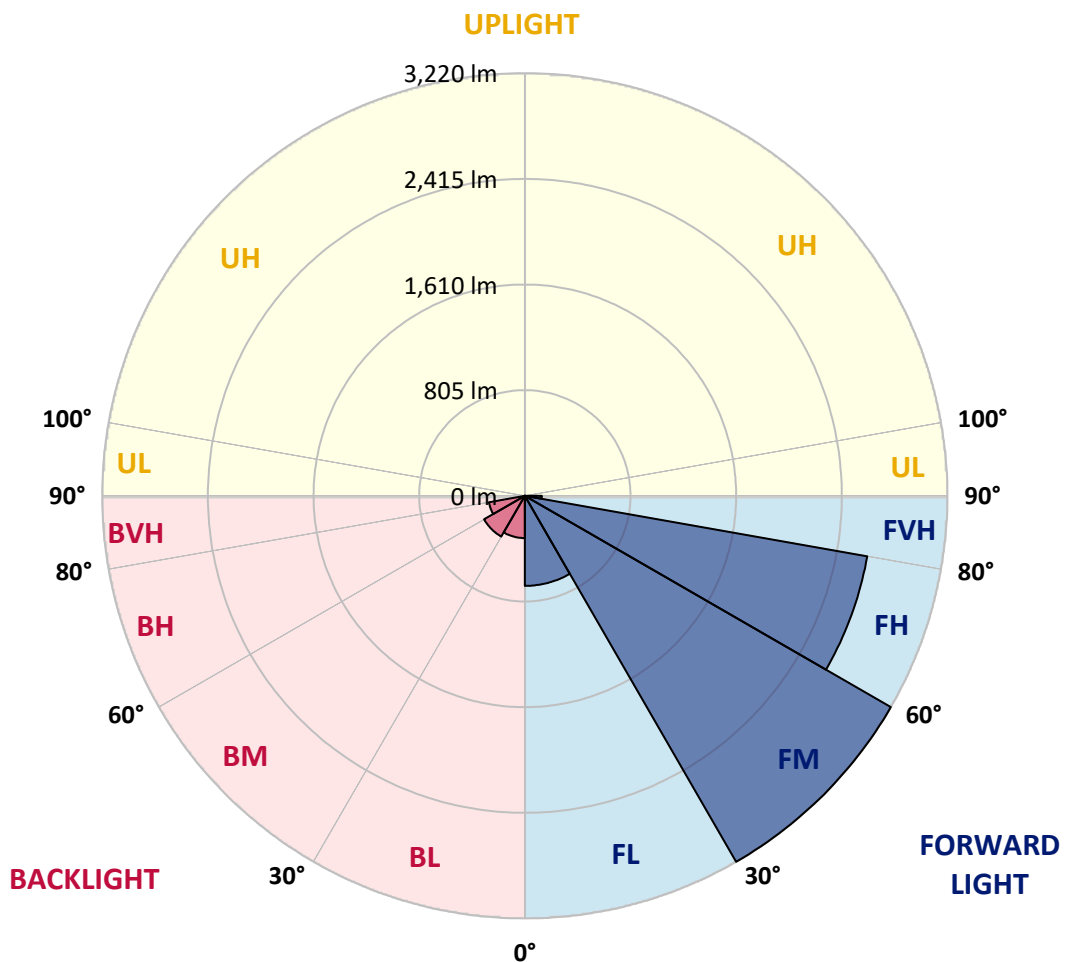


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	686.1	9.0			
FM (30°-60°)	3219.9	42.1			
FH (60°-80°)	2649.4	34.6			G2/5000
FVH (80°-90°)	128.9	1.7			G2/225
BL (0°-30°)	322.1	4.2	B1/500		
BM (30°-60°)	358.4	4.7	B1/1000		
BH (60°-80°)	278.0	3.6	B1/500		G1/500
BVH (80°-90°)	3.8	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1875.6	1875.6	1875.6	1875.6	1875.6	1875.6	1875.6	1875.6	1875.6	1875.6	1875.6
2.5°	1794.5	1803.7	1816.6	1835.0	1847.9	1840.6	1846.1	1877.4	1860.8	1875.6	1868.2
5°	1695.0	1704.2	1722.7	1720.8	1735.5	1763.2	1800.0	1840.6	1822.1	1866.4	1882.9
7.5°	1591.8	1588.2	1588.2	1626.8	1658.2	1696.9	1717.1	1783.5	1785.3	1824.0	1864.5
10°	1497.9	1508.9	1527.4	1542.1	1571.6	1626.8	1685.8	1737.4	1757.7	1835.0	1846.1
12.5°	1440.8	1446.3	1468.4	1481.3	1520.0	1573.4	1636.1	1702.4	1719.0	1798.2	1851.6
15°	1416.8	1429.7	1437.1	1461.0	1481.3	1531.0	1577.1	1652.6	1700.5	1763.2	1829.5
17.5°	1435.2	1429.7	1433.4	1440.8	1464.7	1508.9	1558.7	1634.2	1650.8	1755.8	1855.3
20°	1459.2	1461.0	1450.0	1446.3	1440.8	1483.1	1523.7	1621.3	1639.7	1755.8	1871.9
22.5°	1523.7	1503.4	1523.7	1494.2	1464.7	1483.1	1521.8	1623.2	1636.1	1754.0	1888.5
25°	1602.9	1606.6	1612.1	1549.5	1507.1	1494.2	1534.7	1628.7	1639.7	1768.7	1895.8
27.5°	1715.3	1731.9	1704.2	1672.9	1588.2	1523.7	1532.9	1625.0	1645.3	1761.3	1914.3
30°	1866.4	1853.5	1857.1	1785.3	1702.4	1601.1	1575.3	1634.2	1649.0	1770.6	1949.3
32.5°	1997.2	1982.4	2008.2	1982.4	1851.6	1711.6	1625.0	1652.6	1669.2	1792.7	1978.7
35°	2078.2	2096.7	2137.2	2164.8	2054.3	1855.3	1707.9	1702.4	1709.8	1803.7	2000.9
37.5°	2203.5	2236.7	2269.8	2339.9	2244.1	2032.2	1838.7	1766.9	1754.0	1857.1	2011.9
40°	2339.9	2330.6	2428.3	2511.2	2507.5	2280.9	2021.1	1881.1	1862.7	1941.9	2085.6
42.5°	2454.1	2444.9	2553.6	2689.9	2704.7	2520.4	2229.3	2043.2	2026.7	2072.7	2175.9
45°	2603.3	2610.7	2739.7	2901.8	2955.2	2837.3	2511.2	2275.4	2266.2	2251.4	2347.2
47.5°	2736.0	2776.5	2887.1	3078.7	3272.1	3165.3	2842.8	2614.4	2549.9	2516.7	2612.5
50°	2828.1	2864.9	2999.4	3204.0	3557.7	3625.9	3215.0	2975.5	2977.3	2896.3	2947.9
52.5°	2828.1	2826.3	2935.0	3204.0	3756.7	4106.7	3712.5	3430.6	3445.3	3360.6	3364.2
55°	2555.4	2549.9	2682.5	2968.1	3734.6	4569.2	4466.0	4007.2	3970.4	3806.4	3823.0
57.5°	2058.0	2070.9	2172.2	2514.9	3447.1	4784.7	5363.3	4655.8	4530.5	4191.5	4191.5
60°	1501.6	1490.5	1566.0	1805.6	2761.8	4703.7	6100.2	5420.4	5223.2	4510.2	4462.3
62.5°	1142.3	1140.5	1160.7	1241.8	1752.1	4101.2	6417.1	6393.2	6072.6	4823.4	4755.3
65°	923.0	926.7	954.4	1011.5	1070.4	2796.8	6249.5	7553.9	7260.9	5289.6	5066.6
67.5°	753.5	762.8	795.9	919.4	906.5	1448.1	5322.7	8219.0	8274.3	6000.7	5484.9
70°	580.4	595.1	633.8	808.8	873.3	963.6	3690.3	7887.4	8034.7	6442.9	5232.4
72.5°	394.3	392.4	475.3	655.9	882.5	882.5	2054.3	6352.6	6492.7	5939.9	4545.2
75°	213.7	226.6	315.1	495.6	808.8	853.0	1169.9	4648.4	4845.5	4618.9	3515.3
77.5°	116.1	117.9	175.0	324.3	672.5	814.3	781.2	3161.6	3239.0	2785.7	1925.3
80°	60.8	62.6	92.1	211.9	464.3	755.4	650.4	1884.8	1811.1	1068.6	635.6
82.5°	27.6	29.5	46.1	132.7	296.6	595.1	561.9	910.2	840.1	298.5	193.5
85°	11.1	11.1	20.3	79.2	173.2	292.9	480.9	456.9	381.4	90.3	95.8
87.5°	3.7	3.7	5.5	31.3	70.0	175.0	256.1	241.4	165.8	33.2	51.6
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°	1875.6	1875.6	1875.6	1875.6	1875.6	1875.6	1875.6	1875.6	1875.6	1875.6	1875.6
2.5°	1860.8	1881.1	1875.6	1871.9	1836.9	1833.2	1829.5	1796.3	1807.4	1779.8	1798.2
5°	1871.9	1882.9	1853.5	1798.2	1748.4	1693.2	1650.8	1621.3	1567.9	1547.6	1543.9
7.5°	1860.8	1860.8	1800.0	1711.6	1614.0	1523.7	1409.4	1328.4	1267.6	1221.5	1238.1
10°	1846.1	1824.0	1761.3	1604.7	1427.9	1291.5	1127.6	1007.8	917.5	888.0	869.6
12.5°	1846.1	1807.4	1667.4	1453.7	1225.2	1018.9	823.6	667.0	580.4	528.8	521.4
15°	1829.5	1772.4	1599.2	1311.8	1028.1	748.0	525.1	390.6	316.9	296.6	289.3
17.5°	1833.2	1765.0	1497.9	1144.1	797.8	497.5	320.6	246.9	228.5	219.2	221.1
20°	1840.6	1765.0	1407.6	980.2	574.8	309.5	221.1	208.2	199.0	195.3	197.1
22.5°	1864.5	1730.0	1315.5	812.5	388.7	222.9	195.3	182.4	175.0	169.5	167.7
25°	1868.2	1724.5	1227.0	646.7	267.1	187.9	171.3	156.6	147.4	140.0	138.2
27.5°	1862.7	1700.5	1103.6	480.9	200.8	167.7	145.6	130.8	117.9	112.4	110.5
30°	1882.9	1656.3	998.6	346.4	169.5	145.6	123.4	106.9	95.8	88.4	88.4
32.5°	1884.8	1617.6	882.5	246.9	154.8	129.0	105.0	86.6	75.5	71.9	71.9
35°	1886.6	1582.6	753.5	187.9	138.2	110.5	86.6	71.9	64.5	59.0	59.0
37.5°	1892.2	1556.8	635.6	158.4	123.4	94.0	71.9	59.0	51.6	49.7	49.7
40°	1903.2	1521.8	512.2	140.0	106.9	79.2	60.8	49.7	42.4	40.5	38.7
42.5°	1932.7	1512.6	409.0	125.3	95.8	66.3	49.7	40.5	35.0	31.3	29.5
45°	2054.3	1536.6	316.9	116.1	81.1	55.3	42.4	33.2	25.8	24.0	22.1
47.5°	2253.3	1615.8	250.6	103.2	68.2	46.1	35.0	25.8	20.3	18.4	16.6
50°	2555.4	1796.3	204.5	92.1	57.1	38.7	27.6	20.3	14.7	12.9	12.9
52.5°	2951.5	2039.5	176.9	81.1	46.1	33.2	22.1	14.7	11.1	9.2	9.2
55°	3356.9	2327.0	165.8	70.0	38.7	27.6	16.6	11.1	7.4	5.5	5.5
57.5°	3729.0	2513.0	160.3	57.1	33.2	20.3	12.9	7.4	3.7	1.8	1.8
60°	3961.2	2649.4	143.7	46.1	25.8	16.6	9.2	3.7	1.8	0.0	0.0
62.5°	4267.0	2787.6	117.9	35.0	18.4	11.1	5.5	1.8	0.0	0.0	0.0
65°	4670.5	2942.3	92.1	27.6	14.7	7.4	3.7	1.8	0.0	0.0	0.0
67.5°	4864.0	2861.3	62.6	20.3	9.2	3.7	1.8	0.0	0.0	0.0	0.0
70°	4477.1	2409.9	44.2	14.7	5.5	1.8	1.8	0.0	0.0	0.0	0.0
72.5°	3764.0	1888.5	33.2	9.2	3.7	1.8	0.0	0.0	0.0	0.0	0.0
75°	2774.7	1181.0	25.8	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1472.1	440.3	18.4	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	434.8	129.0	12.9	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	143.7	38.7	7.4	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	73.7	14.7	3.7	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	42.4	5.5	3.7	3.7	1.8	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)