

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: P675763

Luminaire Tested: **CCW-SA-2E-835-U-SL4**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675763  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-835-U-SL4  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/  
SL4 distribution lens  
Light Source: (32) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

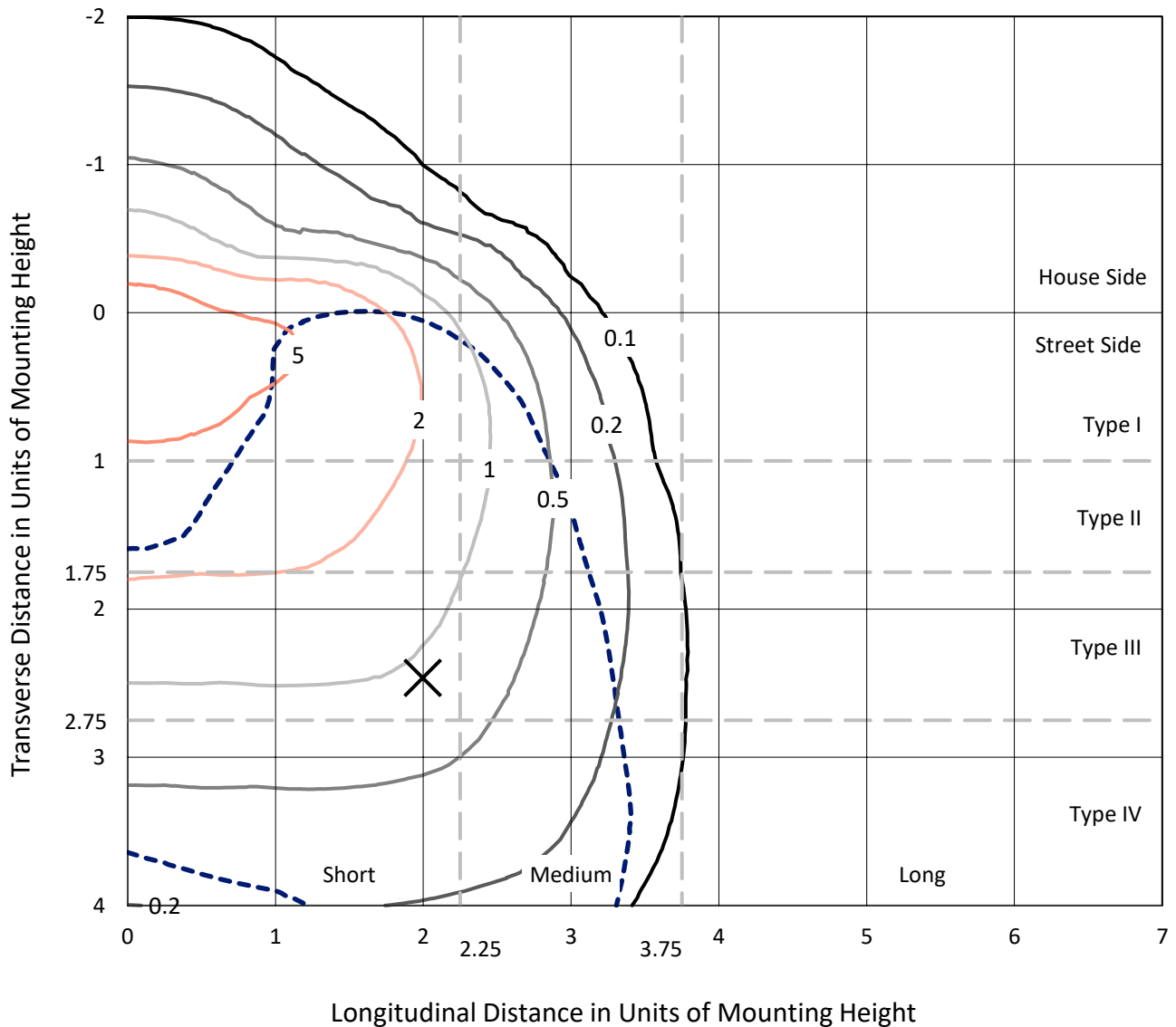
Lumens per Lamp: N/A  
Luminaire Lumens: 11040.4 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 106.6  
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

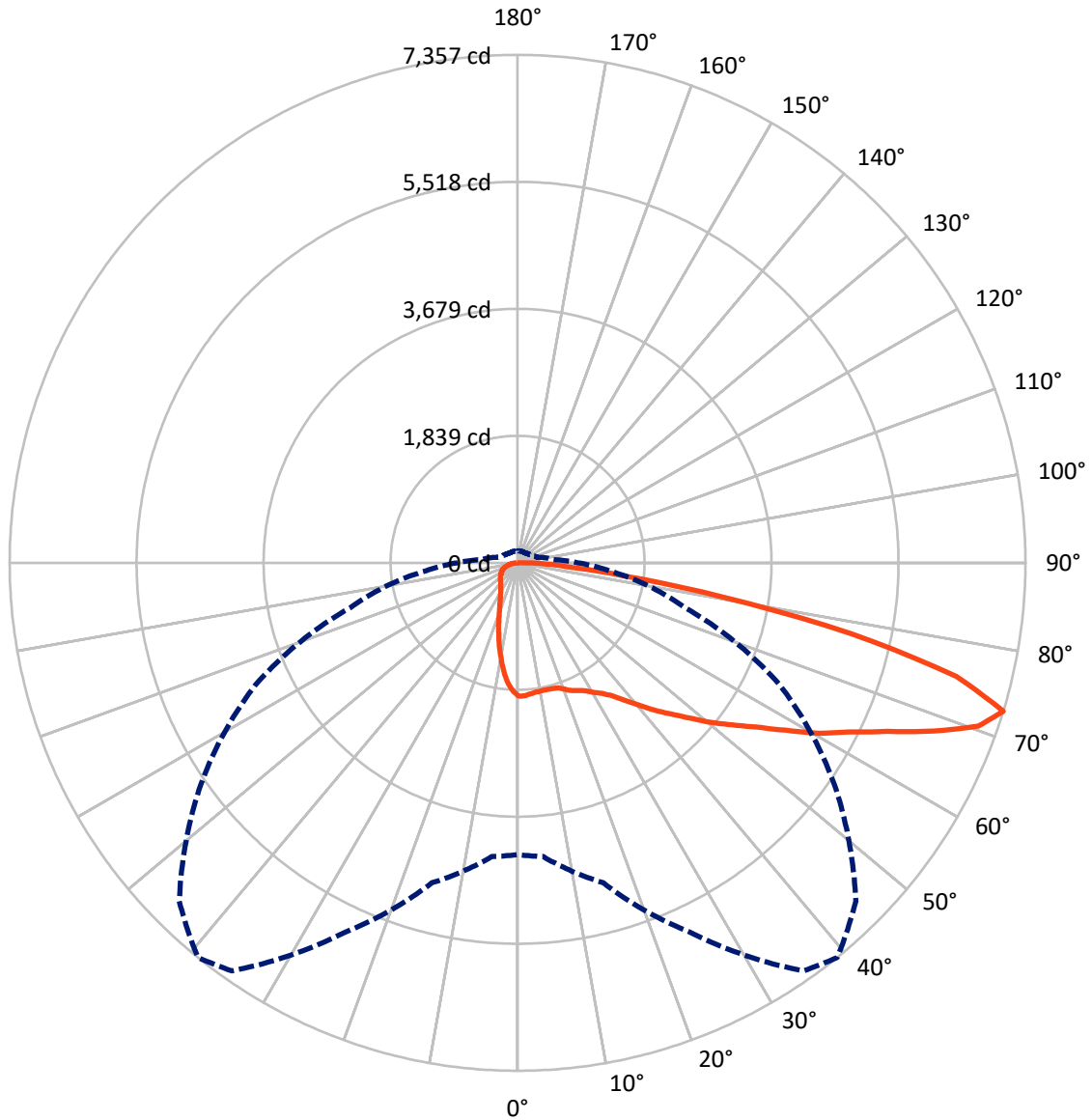
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.6 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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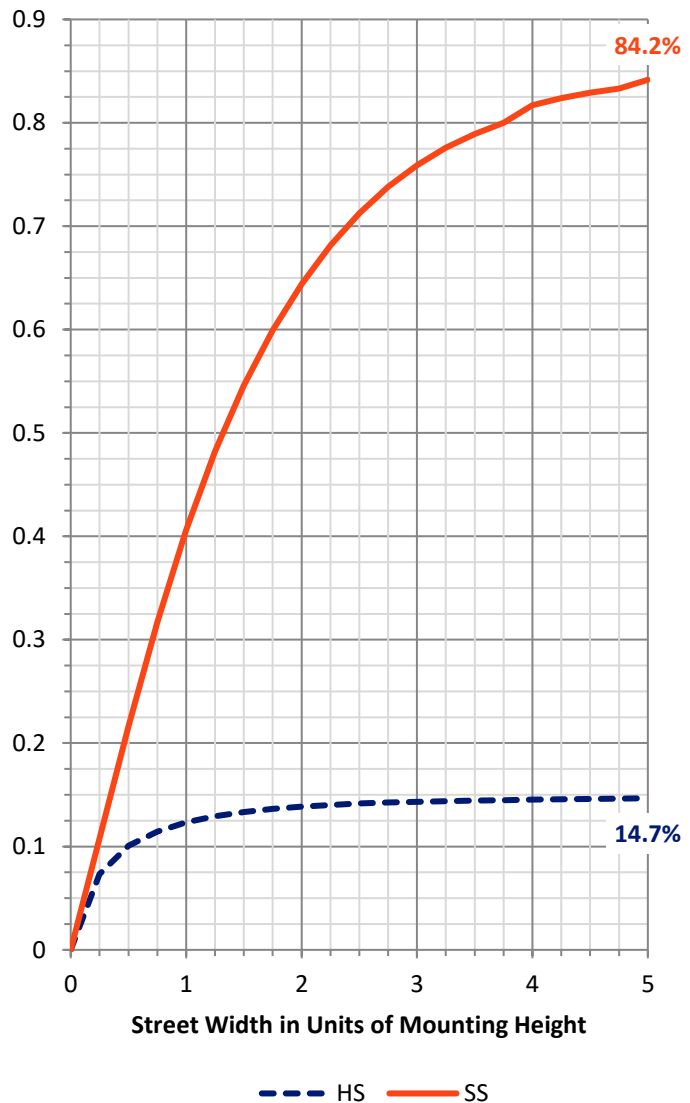
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1640.8	0.0	1640.8
	% Fixture	14.9	0.0	14.9
<b>Street Side</b>	Lumens	9399.5	0.0	9399.5
	% Fixture	85.1	0.0	85.1
<b>Total</b>	Lumens	11040.4	0.0	11040.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.7	1.5
10°-20°	435.9	3.9
20°-30°	664.0	6.0
30°-40°	971.3	8.8
40°-50°	1487.1	13.5
50°-60°	2181.0	19.8
60°-70°	2781.6	25.2
70°-80°	2009.7	18.2
80°-90°	339.0	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°	11040.4	100.0
0°-180°	11040.4	100.0

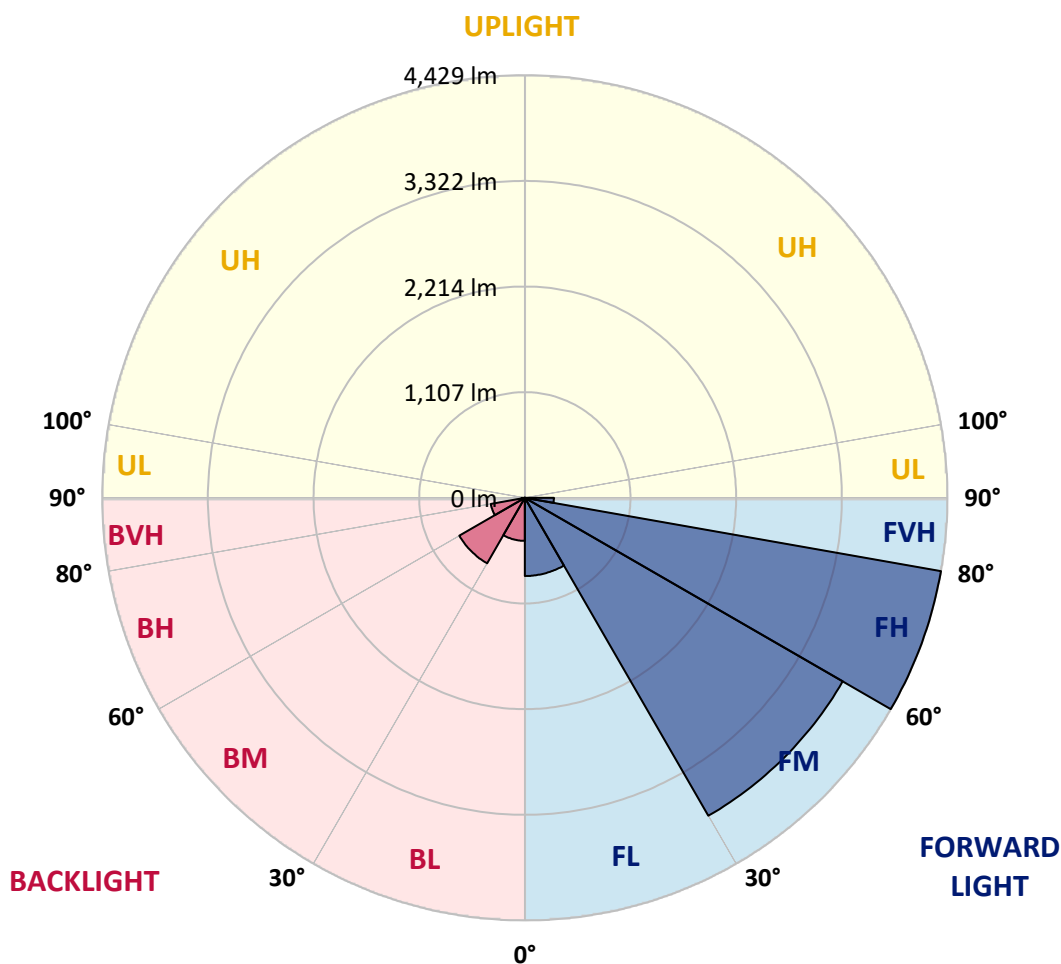


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	819.4	7.4			
FM (30°-60°)	3846.7	34.8			
FH (60°-80°)	4428.8	40.1			G2/5000
FVH (80°-90°)	304.7	2.8			G3/500
BL (0°-30°)	451.2	4.1	B1/500		
BM (30°-60°)	792.7	7.2	B1/1000		
BH (60°-80°)	362.5	3.3	B1/500		G1/500
BVH (80°-90°)	34.3	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-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6
2.5°	1961.6	1965.7	1957.4	1949.1	1945.0	1928.4	1945.0	1936.7	1928.4	1928.4	1928.4
5°	1936.7	1940.8	1940.8	1932.6	1936.7	1907.7	1903.5	1907.7	1895.2	1886.9	1882.8
7.5°	1899.4	1907.7	1924.3	1920.1	1903.5	1891.1	1895.2	1891.1	1870.3	1857.9	1824.7
10°	1870.3	1878.6	1886.9	1895.2	1891.1	1886.9	1882.8	1866.2	1862.1	1833.0	1799.8
12.5°	1841.3	1841.3	1845.5	1878.6	1882.8	1882.8	1857.9	1857.9	1845.5	1841.3	1791.6
15°	1812.3	1824.7	1857.9	1866.2	1882.8	1891.1	1878.6	1878.6	1857.9	1828.9	1791.6
17.5°	1820.6	1841.3	1874.5	1895.2	1903.5	1903.5	1920.1	1907.7	1878.6	1862.1	1824.7
20°	1862.1	1866.2	1907.7	1945.0	1953.3	1953.3	1936.7	1924.3	1903.5	1874.5	1824.7
22.5°	1886.9	1916.0	1965.7	1986.5	2011.3	2011.3	1990.6	1961.6	1932.6	1903.5	1849.6
25°	1994.8	1998.9	2019.6	2052.8	2065.3	2048.7	2027.9	1994.8	1957.4	1928.4	1878.6
27.5°	2069.4	2090.1	2115.0	2131.6	2110.9	2098.4	2081.9	2044.5	2015.5	1990.6	1920.1
30°	2206.3	2181.4	2198.0	2206.3	2168.9	2177.2	2131.6	2098.4	2065.3	2065.3	1986.5
32.5°	2289.2	2309.9	2293.4	2289.2	2260.2	2256.0	2227.0	2189.7	2168.9	2193.8	2086.0
35°	2434.4	2421.9	2421.9	2417.8	2384.6	2363.9	2363.9	2297.5	2318.2	2372.1	2239.4
37.5°	2509.0	2504.9	2529.7	2550.5	2517.3	2529.7	2517.3	2488.3	2496.6	2591.9	2430.2
40°	2583.7	2612.7	2662.4	2670.7	2691.5	2708.1	2699.8	2695.6	2728.8	2882.2	2687.3
42.5°	2654.2	2679.0	2753.7	2820.0	2869.8	2923.7	2927.9	2927.9	3035.7	3255.5	2998.4
45°	2745.4	2766.1	2869.8	3002.5	3085.5	3122.8	3156.0	3193.3	3338.4	3599.7	3330.1
47.5°	2869.8	2886.4	3010.8	3176.7	3338.4	3359.2	3425.5	3467.0	3686.8	3952.2	3670.2
50°	3048.1	3035.7	3135.2	3375.7	3533.3	3632.9	3728.3	3802.9	4018.6	4308.9	3935.6
52.5°	3193.3	3193.3	3267.9	3587.3	3802.9	3898.3	3997.8	4101.5	4350.3	4665.5	4151.3
55°	3442.1	3417.2	3462.8	3794.6	4105.6	4196.9	4387.6	4474.7	4715.3	4930.9	4333.7
57.5°	3612.1	3624.6	3678.5	4068.3	4462.3	4574.3	4765.0	4827.2	5038.7	5208.8	4466.4
60°	3836.1	3794.6	3910.7	4371.1	4856.3	5013.9	5171.4	5208.8	5366.4	5387.1	4528.6
62.5°	4051.7	4043.4	4143.0	4673.8	5279.3	5391.2	5553.0	5594.5	5660.8	5528.1	4441.6
65°	4184.4	4238.3	4425.0	5005.6	5760.3	5884.8	6046.5	5963.5	5888.9	5403.7	4014.4
67.5°	4366.9	4391.8	4677.9	5366.4	6316.1	6502.7	6643.7	6316.1	5760.3	4893.6	3379.9
70°	4408.4	4474.7	4848.0	5743.8	6888.4	7079.1	7087.4	6195.8	5291.7	3981.2	2450.9
72.5°	4225.9	4271.5	4798.2	5901.3	7216.0	7357.0	6929.8	5602.7	4192.7	2509.0	1335.4
75°	3554.1	3682.6	4176.1	5416.1	6614.6	6560.7	5872.3	4275.7	2517.3	1111.4	564.0
77.5°	2475.8	2480.0	2994.2	3939.8	4951.7	4939.2	4188.6	2480.0	1078.2	447.9	331.8
80°	1099.0	1177.8	1488.8	2123.3	3006.7	3006.7	2442.6	1231.7	539.1	290.3	228.1
82.5°	646.9	671.8	796.2	991.2	1463.9	1542.7	1169.5	821.1	369.1	182.5	141.0
85°	476.9	518.4	593.0	597.2	692.6	705.0	646.9	713.3	253.0	99.5	116.1
87.5°	356.7	381.5	472.8	394.0	369.1	348.4	398.1	729.9	95.4	49.8	37.3
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°	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6
2.5°	1911.8	1911.8	1903.5	1886.9	1886.9	1853.8	1862.1	1870.3	1849.6	1849.6	1853.8
5°	1882.8	1866.2	1845.5	1820.6	1804.0	1758.4	1750.1	1721.1	1716.9	1708.6	1696.2
7.5°	1824.7	1799.8	1762.5	1725.2	1671.3	1629.8	1580.0	1538.6	1522.0	1509.5	1505.4
10°	1770.8	1766.7	1704.5	1629.8	1546.9	1468.1	1393.4	1339.5	1306.3	1285.6	1281.5
12.5°	1770.8	1737.6	1650.6	1546.9	1426.6	1310.5	1215.1	1140.5	1094.8	1061.7	1049.2
15°	1762.5	1729.3	1613.2	1455.6	1318.8	1161.2	1028.5	949.7	883.3	850.2	854.3
17.5°	1770.8	1721.1	1559.3	1389.3	1198.5	1028.5	870.9	775.5	709.2	684.3	680.1
20°	1775.0	1712.8	1517.8	1298.0	1074.1	883.3	734.0	642.8	593.0	576.4	576.4
22.5°	1766.7	1687.9	1455.6	1190.2	966.3	763.1	638.7	559.9	526.7	505.9	514.2
25°	1804.0	1683.7	1397.6	1099.0	841.9	663.5	568.2	510.1	489.4	476.9	481.1
27.5°	1812.3	1683.7	1352.0	995.3	734.0	588.9	514.2	476.9	460.3	452.0	447.9
30°	1845.5	1692.0	1298.0	891.6	646.9	530.8	472.8	452.0	439.6	435.4	435.4
32.5°	1936.7	1716.9	1240.0	804.5	572.3	481.1	443.7	427.2	418.9	414.7	418.9
35°	2044.5	1783.3	1177.8	713.3	518.4	447.9	418.9	406.4	402.3	402.3	402.3
37.5°	2210.4	1882.8	1123.9	638.7	472.8	414.7	394.0	389.8	385.7	389.8	389.8
40°	2401.2	1990.6	1074.1	580.6	439.6	394.0	373.2	373.2	369.1	373.2	377.4
42.5°	2621.0	2123.3	1024.3	522.5	410.6	377.4	360.8	356.7	352.5	360.8	364.9
45°	2923.7	2305.8	991.2	489.4	389.8	360.8	344.2	344.2	340.1	340.1	348.4
47.5°	3176.7	2480.0	991.2	456.2	377.4	348.4	331.8	331.8	323.5	327.6	327.6
50°	3388.2	2629.3	1011.9	447.9	360.8	335.9	323.5	315.2	311.0	311.0	311.0
52.5°	3529.2	2720.5	1028.5	439.6	352.5	319.3	311.0	306.9	298.6	294.4	298.6
55°	3670.2	2782.7	1032.6	439.6	340.1	302.7	294.4	294.4	286.2	282.0	282.0
57.5°	3724.1	2757.8	974.6	431.3	331.8	290.3	282.0	277.9	273.7	269.6	269.6
60°	3699.2	2666.6	846.0	410.6	323.5	282.0	265.4	265.4	265.4	257.1	261.3
62.5°	3529.2	2355.6	680.1	377.4	311.0	265.4	248.8	257.1	257.1	253.0	253.0
65°	3081.3	1945.0	551.6	348.4	294.4	253.0	236.4	248.8	253.0	248.8	244.7
67.5°	2463.4	1497.1	456.2	315.2	273.7	232.2	219.8	232.2	236.4	232.2	232.2
70°	1692.0	966.3	369.1	282.0	244.7	211.5	199.1	207.4	207.4	211.5	211.5
72.5°	875.0	522.5	302.7	240.5	211.5	190.8	178.3	178.3	174.2	174.2	174.2
75°	435.4	356.7	253.0	203.2	178.3	161.7	153.4	145.1	145.1	145.1	145.1
77.5°	302.7	273.7	207.4	161.7	145.1	132.7	132.7	120.3	120.3	120.3	120.3
80°	228.1	215.6	157.6	124.4	112.0	103.7	103.7	99.5	99.5	95.4	95.4
82.5°	161.7	174.2	120.3	91.2	82.9	78.8	78.8	74.6	74.6	66.4	66.4
85°	128.6	145.1	91.2	66.4	62.2	53.9	53.9	49.8	49.8	45.6	41.5
87.5°	37.3	78.8	37.3	24.9	24.9	24.9	24.9	20.7	20.7	16.6	16.6
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)