

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: P675496

Luminaire Tested: **CCW-SA-2D-850-U-SL2**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675496  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-850-U-SL2  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/  
SL2 distribution lens  
Light Source: (32) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

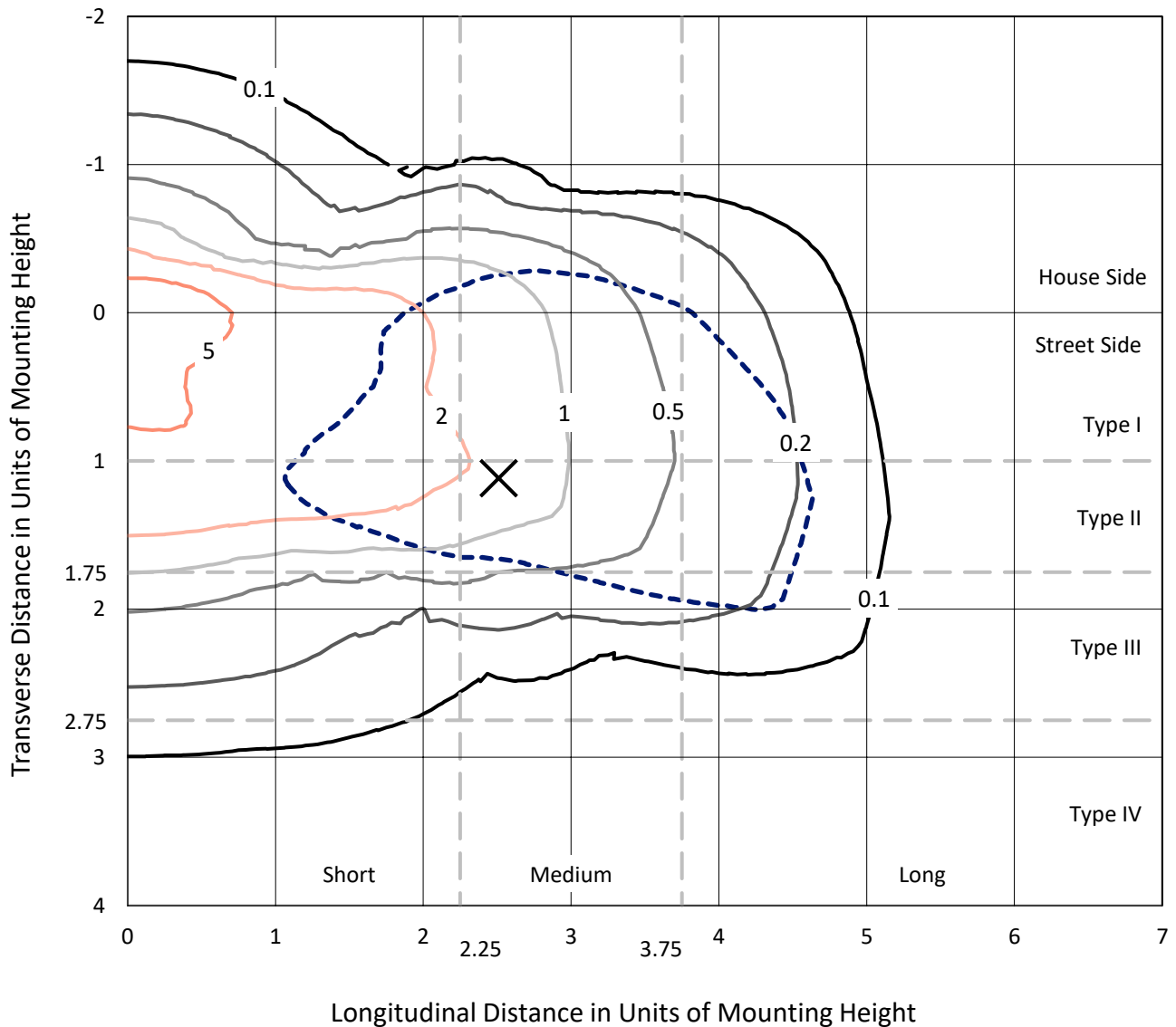
Lumens per Lamp: N/A  
Luminaire Lumens: 9631.6 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 80.8  
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

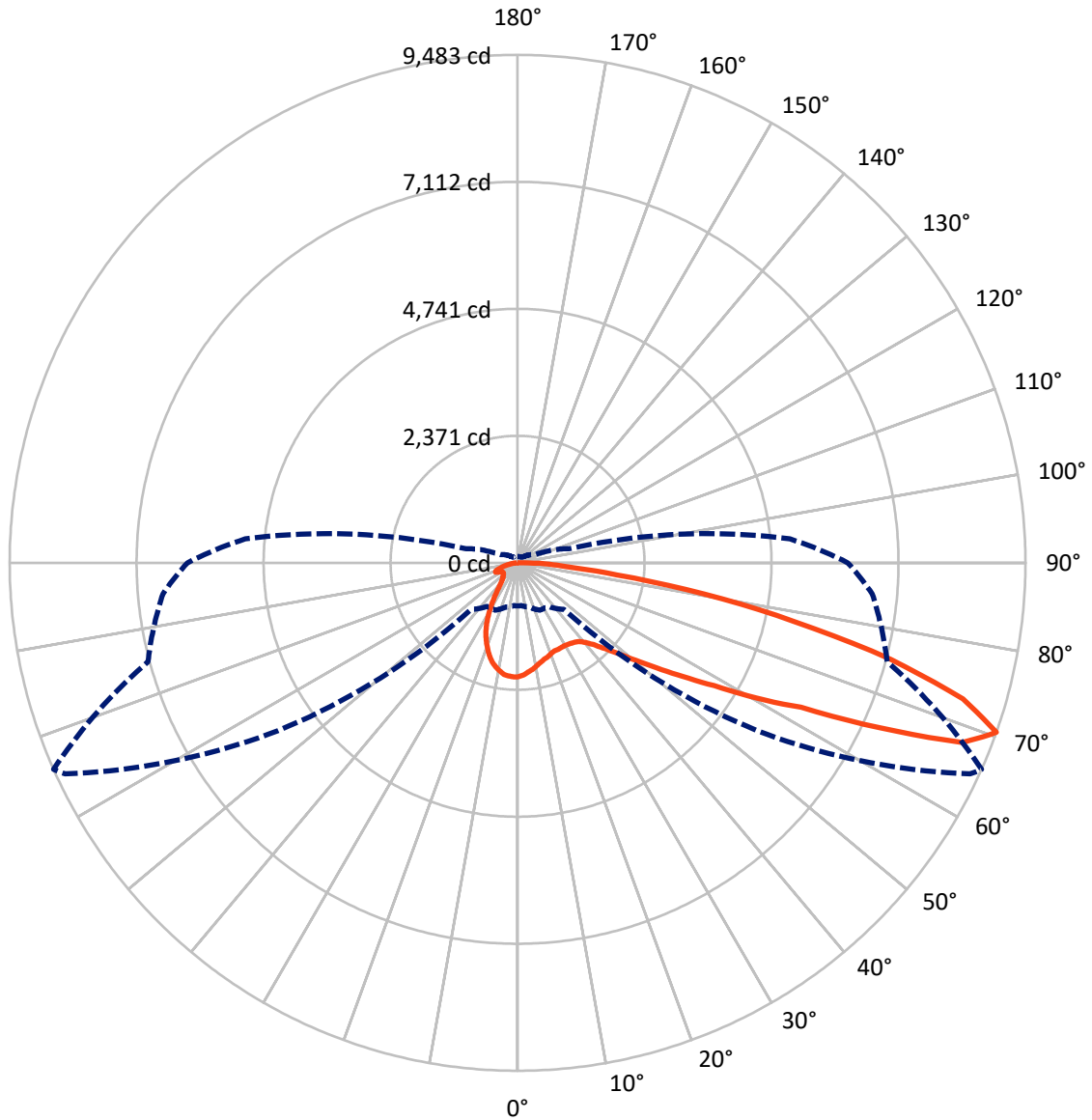
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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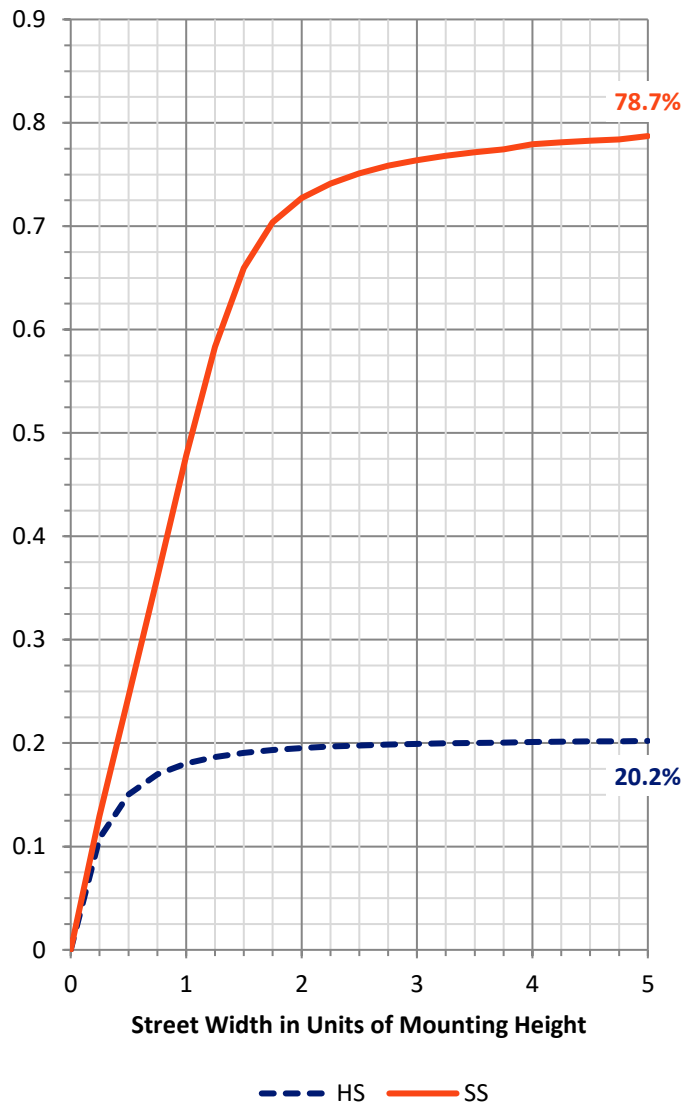
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1971.5	0.0	1971.5
	% Fixture	20.5	0.0	20.5
<b>Street Side</b>	Lumens	7660.1	0.0	7660.1
	% Fixture	79.5	0.0	79.5
<b>Total</b>	Lumens	9631.6	0.0	9631.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.1	2.0
10°-20°	463.2	4.8
20°-30°	636.1	6.6
30°-40°	852.9	8.9
40°-50°	1237.5	12.8
50°-60°	1881.0	19.5
60°-70°	2323.1	24.1
70°-80°	1727.5	17.9
80°-90°	322.2	3.3
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°	9631.6	100.0
0°-180°	9631.6	100.0

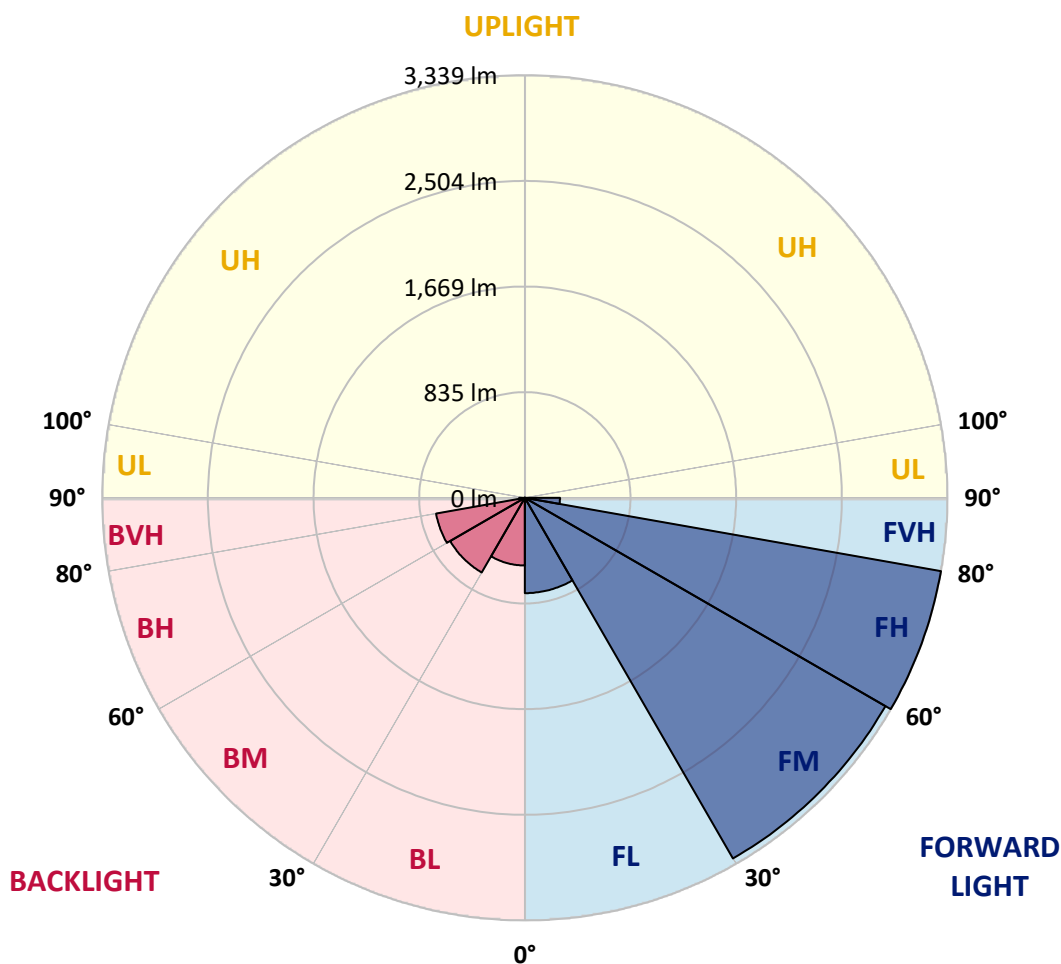


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	753.1	7.8			
FM (30°-60°)	3290.3	34.2			
FH (60°-80°)	3338.9	34.7			G2/5000
FVH (80°-90°)	277.8	2.9			G3/500
BL (0°-30°)	534.3	5.5	B2/1000		
BM (30°-60°)	681.0	7.1	B1/1000		
BH (60°-80°)	711.7	7.4	B2/1000		G2/1000
BVH (80°-90°)	44.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9
2.5°	2024.0	2034.8	2038.4	2045.5	2063.4	2077.8	2099.3	2110.0	2099.3	2113.6	2113.6
5°	1884.3	1870.0	1905.8	1920.1	1941.6	1970.3	2020.4	2059.8	2049.1	2092.1	2127.9
7.5°	1766.1	1766.1	1776.8	1809.1	1834.2	1877.1	1930.9	1991.8	2009.7	2067.0	2120.7
10°	1658.6	1673.0	1673.0	1723.1	1737.4	1787.6	1877.1	1952.4	1956.0	2052.7	2127.9
12.5°	1601.3	1594.1	1630.0	1644.3	1687.3	1737.4	1809.1	1902.2	1905.8	2009.7	2113.6
15°	1554.7	1561.9	1579.8	1615.6	1655.0	1694.4	1762.5	1848.5	1866.4	1988.2	2106.4
17.5°	1558.3	1561.9	1561.9	1587.0	1619.2	1665.8	1730.3	1830.6	1841.3	1959.5	2095.7
20°	1579.8	1565.5	1576.2	1587.0	1608.5	1651.5	1705.2	1791.2	1801.9	1956.0	2120.7
22.5°	1626.4	1615.6	1612.1	1608.5	1604.9	1630.0	1698.0	1769.7	1780.4	1938.0	2131.5
25°	1701.6	1698.0	1673.0	1647.9	1630.0	1630.0	1683.7	1787.6	1784.0	1938.0	2138.7
27.5°	1791.2	1791.2	1787.6	1741.0	1687.3	1658.6	1694.4	1780.4	1776.8	1938.0	2156.6
30°	1913.0	1913.0	1902.2	1859.2	1762.5	1680.1	1701.6	1773.3	1784.0	1923.7	2142.2
32.5°	2045.5	2041.9	2052.7	2013.3	1913.0	1780.4	1744.6	1787.6	1798.3	1938.0	2145.8
35°	2142.2	2163.7	2199.6	2163.7	2063.4	1884.3	1805.5	1816.2	1823.4	1941.6	2160.2
37.5°	2253.3	2278.4	2328.5	2357.2	2249.7	2041.9	1902.2	1862.8	1862.8	1988.2	2163.7
40°	2414.5	2389.4	2475.4	2525.6	2482.6	2235.4	2052.7	1948.8	1952.4	2049.1	2210.3
42.5°	2532.7	2557.8	2647.4	2736.9	2683.2	2471.8	2217.5	2088.5	2088.5	2138.7	2282.0
45°	2665.3	2693.9	2819.3	2926.8	2966.2	2754.8	2443.2	2289.1	2282.0	2314.2	2410.9
47.5°	2812.1	2851.5	2994.8	3120.2	3224.1	3048.6	2733.3	2532.7	2529.1	2554.2	2625.9
50°	2980.5	2994.8	3113.1	3342.3	3550.1	3439.1	3088.0	2876.6	2858.7	2869.5	2966.2
52.5°	3030.7	3019.9	3156.0	3403.2	3783.0	3915.5	3571.6	3267.1	3259.9	3234.9	3360.2
55°	2848.0	2883.8	3016.3	3331.6	3972.8	4477.9	4101.8	3800.9	3736.4	3668.3	3818.8
57.5°	2482.6	2486.1	2636.6	3009.2	3825.9	4943.6	5001.0	4323.9	4327.5	4144.8	4316.7
60°	1930.9	1920.1	2038.4	2375.1	3406.8	5086.9	5982.5	5158.6	5122.8	4621.2	4778.8
62.5°	1393.5	1372.0	1397.1	1594.1	2547.0	4868.4	6946.2	6093.6	5943.1	5108.4	5230.2
65°	1146.4	1157.1	1167.8	1178.6	1429.4	4015.8	7243.5	7619.6	7419.0	5678.0	5728.2
67.5°	949.3	956.5	1003.1	1067.5	1060.4	2371.5	6899.6	9031.1	8955.9	6383.7	6158.1
70°	806.0	802.4	856.2	974.4	992.3	1232.3	5463.1	9321.3	9482.5	7143.2	6645.3
72.5°	644.8	652.0	698.6	856.2	974.4	1038.9	3145.3	8697.9	8694.4	7727.1	6383.7
75°	462.1	462.1	526.6	709.3	942.2	1028.1	1741.0	7060.8	7193.3	7261.4	5538.3
77.5°	304.5	318.8	369.0	530.2	884.8	1006.6	1103.4	5133.5	5298.3	5430.8	4237.9
80°	207.8	214.9	247.2	369.0	748.7	1013.8	902.8	3453.4	3517.9	2998.4	1719.5
82.5°	125.4	129.0	164.8	257.9	537.4	963.7	849.0	1905.8	1866.4	906.3	494.4
85°	68.1	71.6	103.9	172.0	354.7	841.9	834.7	935.0	870.5	333.2	207.8
87.5°	25.1	25.1	46.6	86.0	204.2	576.8	727.2	555.3	519.4	168.4	96.7
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°	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9
2.5°	2131.5	2131.5	2131.5	2131.5	2127.9	2113.6	2124.3	2120.7	2099.3	2102.8	2088.5
5°	2124.3	2142.2	2131.5	2117.2	2099.3	2056.3	2041.9	2031.2	2002.5	1991.8	2002.5
7.5°	2142.2	2127.9	2120.7	2095.7	2024.0	1984.6	1934.5	1873.6	1830.6	1819.8	1830.6
10°	2138.7	2138.7	2106.4	2034.8	1966.7	1852.1	1787.6	1680.1	1619.2	1601.3	1604.9
12.5°	2124.3	2135.1	2084.9	1970.3	1841.3	1701.6	1583.4	1468.8	1361.3	1318.3	1311.1
15°	2138.7	2127.9	2038.4	1891.5	1712.4	1518.9	1347.0	1178.6	1078.3	1013.8	999.5
17.5°	2117.2	2106.4	1977.5	1784.0	1544.0	1296.8	1081.9	899.2	798.9	773.8	773.8
20°	2142.2	2074.2	1905.8	1655.0	1368.5	1053.2	809.6	673.5	648.4	648.4	655.6
22.5°	2138.7	2067.0	1844.9	1529.7	1157.1	795.3	601.8	562.4	566.0	594.7	591.1
25°	2117.2	2052.7	1758.9	1389.9	935.0	598.3	497.9	487.2	512.3	544.5	540.9
27.5°	2113.6	2013.3	1680.1	1225.2	712.9	472.9	433.5	433.5	458.5	487.2	483.6
30°	2092.1	1981.0	1583.4	1038.9	537.4	412.0	397.6	397.6	408.4	422.7	422.7
32.5°	2088.5	1938.0	1475.9	845.4	429.9	372.6	365.4	369.0	369.0	376.1	372.6
35°	2059.8	1880.7	1364.9	655.6	372.6	351.1	343.9	340.3	340.3	336.7	336.7
37.5°	2049.1	1844.9	1250.2	508.7	347.5	333.2	326.0	315.2	311.7	311.7	308.1
40°	2059.8	1809.1	1139.2	412.0	326.0	318.8	308.1	293.8	290.2	290.2	290.2
42.5°	2099.3	1805.5	1024.6	358.2	315.2	304.5	290.2	275.8	272.3	275.8	272.3
45°	2188.8	1834.2	913.5	333.2	300.9	290.2	272.3	261.5	257.9	261.5	261.5
47.5°	2335.7	1913.0	813.2	318.8	290.2	275.8	257.9	247.2	247.2	247.2	247.2
50°	2579.3	2063.4	716.5	308.1	283.0	265.1	247.2	232.9	229.3	229.3	232.9
52.5°	2944.7	2321.4	637.7	300.9	272.3	250.8	232.9	222.1	214.9	211.4	214.9
55°	3385.3	2697.5	612.6	293.8	257.9	240.0	222.1	207.8	200.6	200.6	197.0
57.5°	3858.2	3113.1	655.6	286.6	247.2	225.7	207.8	193.4	186.3	182.7	182.7
60°	4370.5	3603.8	813.2	283.0	236.4	211.4	193.4	182.7	172.0	168.4	168.4
62.5°	4836.2	4048.0	1096.2	279.4	229.3	197.0	179.1	164.8	157.6	154.0	154.0
65°	5366.4	4542.4	1372.0	293.8	225.7	186.3	164.8	150.5	143.3	139.7	139.7
67.5°	5828.5	4972.3	1533.2	329.6	236.4	172.0	146.9	136.1	132.5	129.0	129.0
70°	6165.2	5104.8	1028.1	361.8	254.3	161.2	132.5	125.4	118.2	118.2	118.2
72.5°	5713.8	4556.7	609.0	340.3	240.0	150.5	118.2	111.1	107.5	107.5	103.9
75°	4886.3	3879.7	469.3	275.8	193.4	129.0	103.9	96.7	93.1	93.1	89.6
77.5°	3607.4	2779.9	347.5	218.5	150.5	103.9	89.6	86.0	82.4	78.8	78.8
80°	1411.4	1218.0	236.4	161.2	111.1	82.4	75.2	71.6	68.1	64.5	64.5
82.5°	437.0	369.0	136.1	107.5	78.8	64.5	60.9	57.3	53.7	50.2	50.2
85°	189.9	182.7	89.6	68.1	53.7	43.0	43.0	39.4	35.8	32.2	32.2
87.5°	93.1	89.6	50.2	32.2	28.7	21.5	21.5	17.9	14.3	14.3	14.3
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)