

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: P677047

Luminaire Tested: **CCW-SA-2D-830-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677047  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-830-U-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (32) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

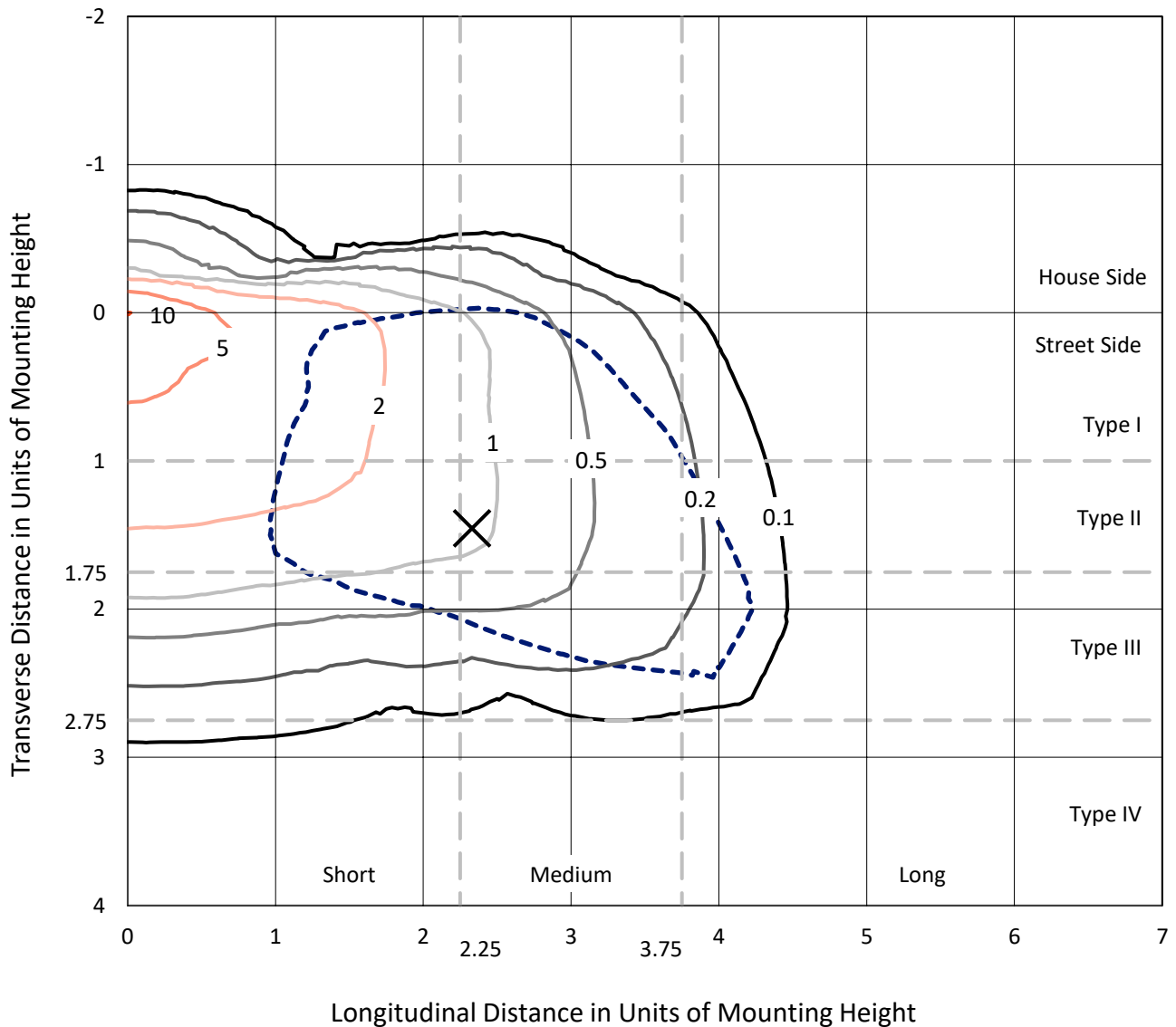
Lumens per Lamp: N/A  
Luminaire Lumens: 7323.1 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

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

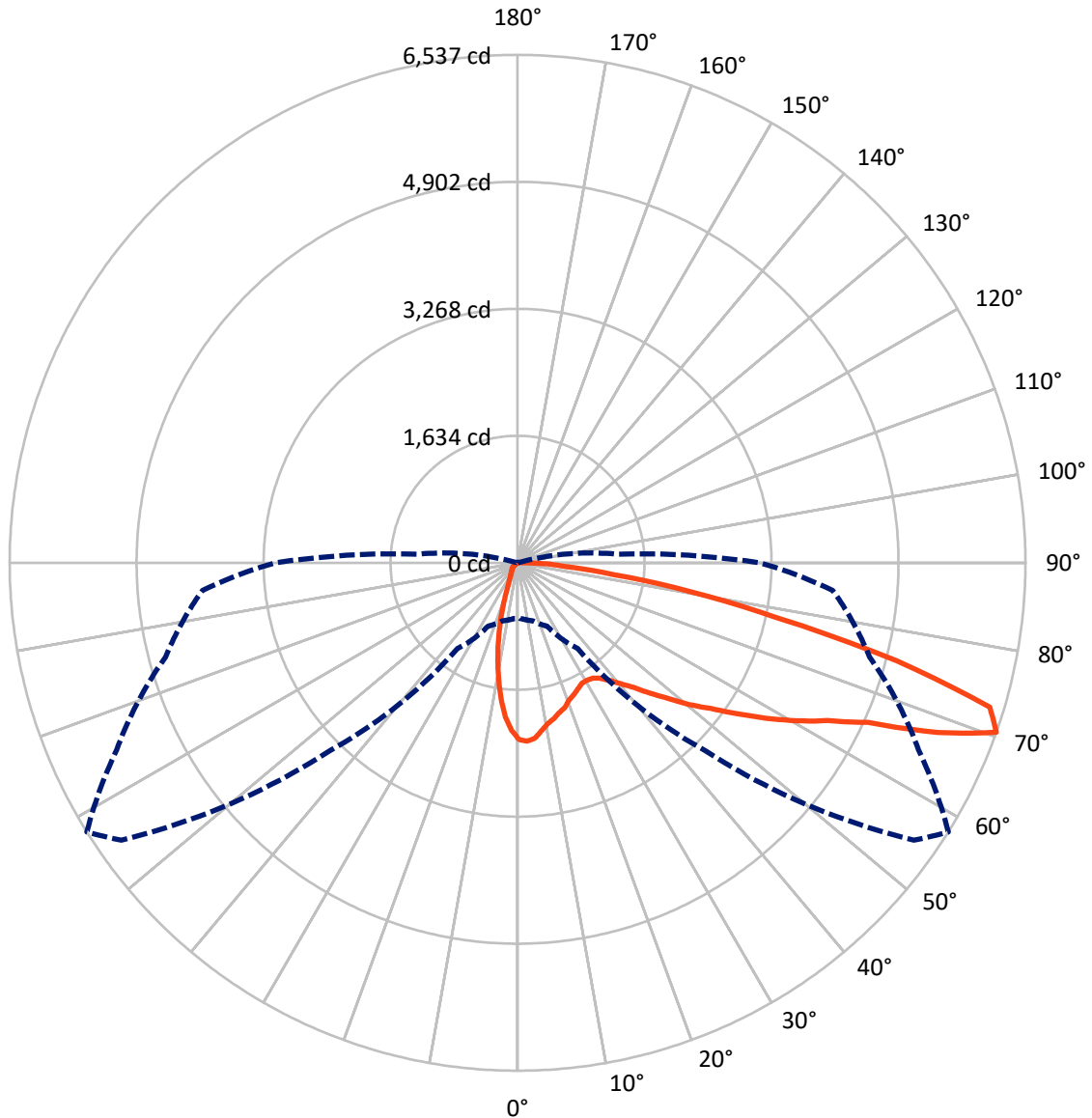
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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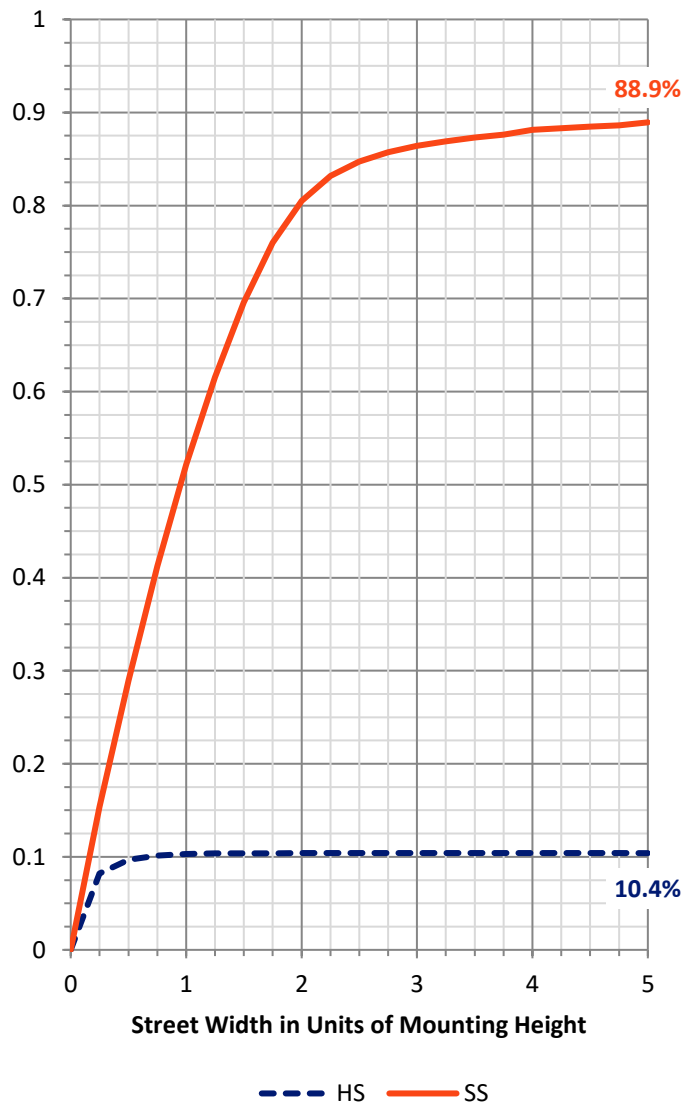
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	766.8	0.0	766.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	6556.2	0.0	6556.2
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	7323.1	0.0	7323.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.5	2.5
10°-20°	386.2	5.3
20°-30°	517.1	7.1
30°-40°	699.0	9.5
40°-50°	1003.2	13.7
50°-60°	1478.3	20.2
60°-70°	1803.2	24.6
70°-80°	1101.1	15.0
80°-90°	149.6	2.0
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°	7323.1	100.0
0°-180°	7323.1	100.0

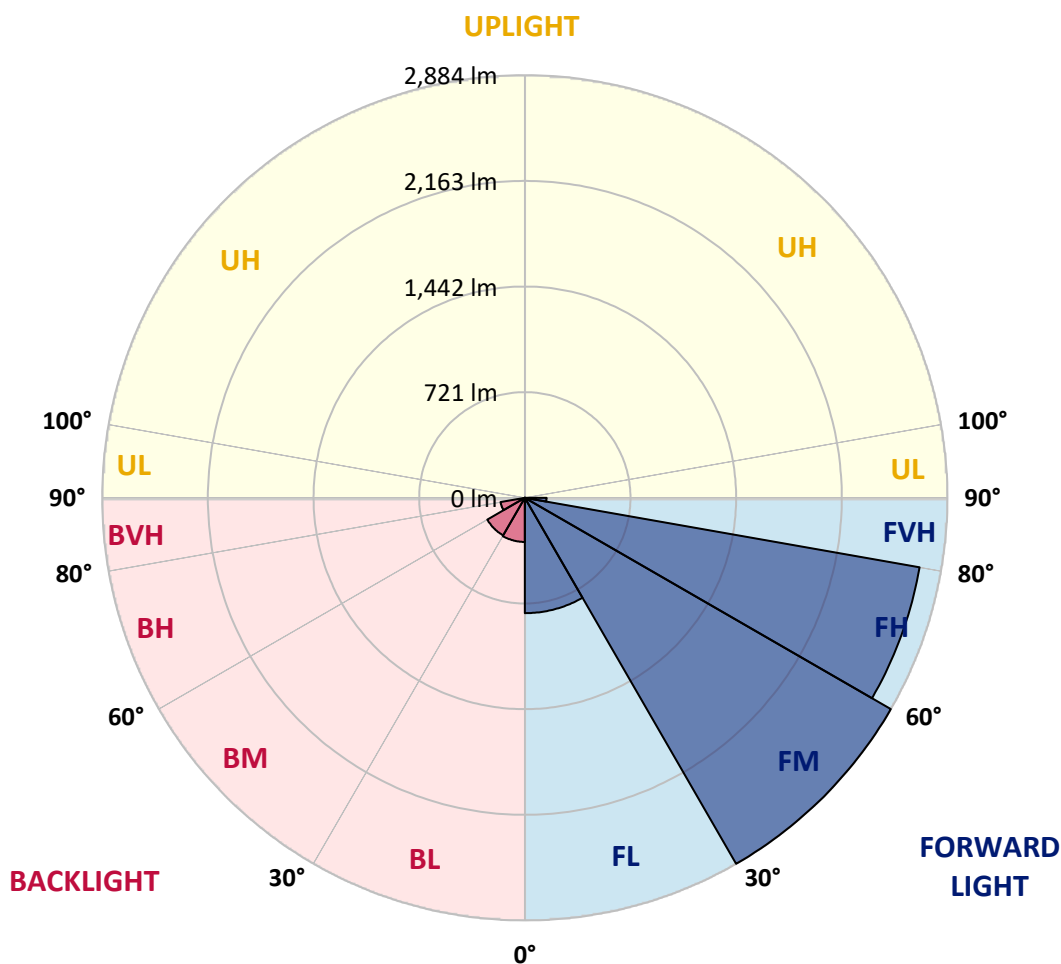


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	787.4	10.8			
FM (30°-60°)	2884.5	39.4			
FH (60°-80°)	2736.3	37.4			G2/5000
FVH (80°-90°)	148.1	2.0			G2/225
BL (0°-30°)	301.4	4.1	B1/500		
BM (30°-60°)	296.0	4.0	B1/1000		
BH (60°-80°)	168.1	2.3	B1/500		G1/500
BVH (80°-90°)	1.5	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3
2.5°	2314.5	2323.1	2302.5	2326.5	2304.2	2314.5	2302.5	2299.1	2300.8	2302.5	2288.8
5°	2206.3	2226.9	2235.5	2221.8	2254.4	2249.3	2269.9	2271.6	2263.0	2254.4	2256.1
7.5°	2063.8	2084.4	2093.0	2101.6	2134.2	2177.2	2204.6	2187.5	2201.2	2232.1	2185.7
10°	1960.8	1955.7	1953.9	1971.1	2032.9	2069.0	2115.3	2110.2	2144.5	2173.7	2135.9
12.5°	1833.8	1823.5	1854.4	1868.1	1923.0	1986.6	2022.6	2060.4	2094.7	2125.6	2082.7
15°	1739.3	1747.9	1759.9	1789.1	1828.6	1912.7	1966.0	2002.0	2063.8	2079.3	2062.1
17.5°	1663.8	1670.6	1687.8	1703.3	1753.1	1833.8	1917.9	1960.8	2026.1	2067.3	2014.0
20°	1665.5	1644.9	1644.9	1660.3	1687.8	1784.0	1873.2	1887.0	1976.3	2046.7	2010.6
22.5°	1667.2	1660.3	1644.9	1643.2	1655.2	1723.9	1814.9	1845.8	1941.9	2024.3	1981.4
25°	1691.2	1665.5	1667.2	1643.2	1648.3	1682.7	1754.8	1801.1	1911.0	2036.4	1966.0
27.5°	1711.8	1723.9	1699.8	1689.5	1660.3	1658.6	1718.7	1758.2	1895.6	2063.8	1976.3
30°	1758.2	1766.8	1766.8	1759.9	1732.5	1693.0	1706.7	1756.5	1864.7	2058.7	1959.1
32.5°	1835.5	1820.0	1840.6	1830.3	1794.3	1732.5	1744.5	1770.2	1883.5	2123.9	1986.6
35°	1861.2	1873.2	1900.7	1878.4	1866.4	1830.3	1806.3	1825.2	1911.0	2189.2	2027.8
37.5°	1940.2	1923.0	1941.9	1991.7	2003.7	1938.5	1892.1	1919.6	2014.0	2266.4	2065.5
40°	1947.1	1960.8	1995.2	2093.0	2105.0	2077.6	2039.8	2046.7	2117.1	2366.0	2160.0
42.5°	1981.4	1996.9	2067.3	2149.7	2214.9	2220.1	2192.6	2192.6	2252.7	2525.7	2264.7
45°	2048.4	2022.6	2113.6	2252.7	2347.1	2366.0	2402.1	2393.5	2441.6	2694.0	2460.5
47.5°	2074.1	2082.7	2182.3	2350.6	2458.7	2546.3	2606.4	2608.1	2632.2	2908.6	2714.6
50°	2158.3	2156.5	2276.7	2433.0	2592.7	2752.3	2869.1	2869.1	2867.4	3118.1	2932.6
52.5°	2269.9	2266.4	2359.2	2544.6	2752.3	2953.2	3107.8	3112.9	3152.4	3375.6	3183.3
55°	2451.9	2436.4	2525.7	2663.1	2912.0	3155.8	3423.7	3425.4	3394.5	3559.3	3363.6
57.5°	2604.7	2603.0	2676.8	2809.0	3090.6	3416.8	3727.6	3774.0	3676.1	3748.2	3507.8
60°	2565.2	2587.5	2740.3	2936.1	3279.5	3743.1	4055.5	4127.7	3971.4	3877.0	3616.0
62.5°	2319.7	2371.2	2537.7	2850.2	3439.1	4216.9	4507.1	4474.5	4125.9	3986.9	3748.2
65°	1668.9	1720.4	1926.5	2395.2	3253.7	4551.8	5101.2	4953.5	4400.7	4150.0	3925.1
67.5°	982.1	1002.7	1131.5	1528.1	2433.0	4369.8	5822.3	5834.4	4941.5	4400.7	4230.7
70°	709.1	724.6	774.4	901.4	1347.8	3425.4	6224.1	6536.6	5691.8	4689.1	4069.3
72.5°	544.3	544.3	628.4	750.3	858.5	2051.8	5727.9	6354.6	5855.0	4412.7	3279.5
75°	391.5	401.8	492.8	645.6	791.5	1030.2	4220.4	5042.8	4962.1	3576.5	2290.5
77.5°	224.9	230.1	346.8	540.9	743.5	707.4	2608.1	3418.5	3514.7	2239.0	992.4
80°	115.0	118.5	194.0	427.5	673.1	616.4	1555.6	2251.0	1909.3	650.7	230.1
82.5°	56.7	56.7	87.6	273.0	571.8	546.0	915.2	1243.1	676.5	149.4	96.2
85°	18.9	20.6	39.5	154.5	413.8	329.7	559.7	590.6	226.6	56.7	53.2
87.5°	5.2	6.9	10.3	56.7	180.3	216.3	333.1	377.7	92.7	22.3	25.8
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°	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3
2.5°	2237.2	2225.2	2211.5	2177.2	2149.7	2113.6	2089.6	2070.7	2034.6	2041.5	2026.1
5°	2214.9	2192.6	2113.6	2038.1	1969.4	1864.7	1792.5	1746.2	1708.4	1670.6	1698.1
7.5°	2175.4	2122.2	1998.6	1857.8	1711.8	1574.5	1437.1	1354.7	1294.6	1239.7	1238.0
10°	2108.5	2022.6	1828.6	1644.9	1420.0	1239.7	1064.5	927.2	837.9	772.6	770.9
12.5°	2032.9	1943.6	1699.8	1401.1	1141.8	887.7	678.2	532.3	448.1	396.6	389.8
15°	1984.8	1854.4	1538.4	1184.7	863.6	578.6	376.0	285.0	252.4	240.4	240.4
17.5°	1923.0	1773.7	1378.7	959.8	599.2	334.8	243.8	219.8	218.1	214.6	211.2
20°	1897.3	1711.8	1236.2	765.8	379.5	236.9	209.5	204.3	204.3	200.9	197.5
22.5°	1828.6	1622.6	1085.1	561.5	252.4	207.8	197.5	190.6	187.2	183.7	187.2
25°	1797.7	1559.0	942.6	388.0	206.0	185.4	180.3	173.4	168.3	166.5	166.5
27.5°	1777.1	1495.5	803.6	269.6	182.0	170.0	159.7	154.5	147.7	140.8	140.8
30°	1761.6	1445.7	669.6	199.2	163.1	151.1	142.5	130.5	121.9	115.0	115.0
32.5°	1741.0	1387.3	535.7	170.0	147.7	135.6	120.2	109.9	97.9	92.7	92.7
35°	1747.9	1347.8	420.7	151.1	132.2	116.8	103.0	89.3	77.3	72.1	70.4
37.5°	1761.6	1318.7	319.4	135.6	118.5	101.3	85.8	70.4	63.5	56.7	56.7
40°	1820.0	1310.1	235.2	125.3	108.2	89.3	72.1	58.4	51.5	46.4	44.6
42.5°	1917.9	1322.1	182.0	113.3	97.9	75.5	60.1	48.1	41.2	36.1	34.3
45°	2043.2	1368.4	149.4	106.5	85.8	63.5	48.1	39.5	30.9	27.5	27.5
47.5°	2225.2	1440.6	130.5	97.9	75.5	53.2	41.2	30.9	24.0	20.6	20.6
50°	2431.3	1523.0	115.0	87.6	65.2	44.6	32.6	24.0	17.2	15.5	15.5
52.5°	2637.3	1627.7	106.5	80.7	56.7	36.1	25.8	17.2	12.0	10.3	10.3
55°	2853.6	1720.4	96.2	75.5	46.4	29.2	18.9	10.3	6.9	5.2	5.2
57.5°	3004.7	1756.5	84.1	65.2	36.1	22.3	13.7	6.9	3.4	1.7	1.7
60°	3112.9	1761.6	72.1	53.2	27.5	17.2	8.6	3.4	1.7	0.0	0.0
62.5°	3203.9	1771.9	61.8	41.2	20.6	12.0	5.2	1.7	0.0	0.0	0.0
65°	3384.2	1763.4	49.8	32.6	13.7	6.9	3.4	0.0	0.0	0.0	0.0
67.5°	3526.7	1677.5	39.5	22.3	8.6	3.4	1.7	0.0	0.0	0.0	0.0
70°	3119.8	1279.2	30.9	15.5	5.2	1.7	0.0	0.0	0.0	0.0	0.0
72.5°	2450.2	853.3	20.6	8.6	3.4	1.7	0.0	0.0	0.0	0.0	0.0
75°	1607.1	424.1	15.5	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	625.0	111.6	10.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	151.1	37.8	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	65.2	13.7	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.5	6.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.6	3.4	1.7	1.7	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)