

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: P677080

Luminaire Tested: **CCW-SA-2D-850-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677080  
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-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (32) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

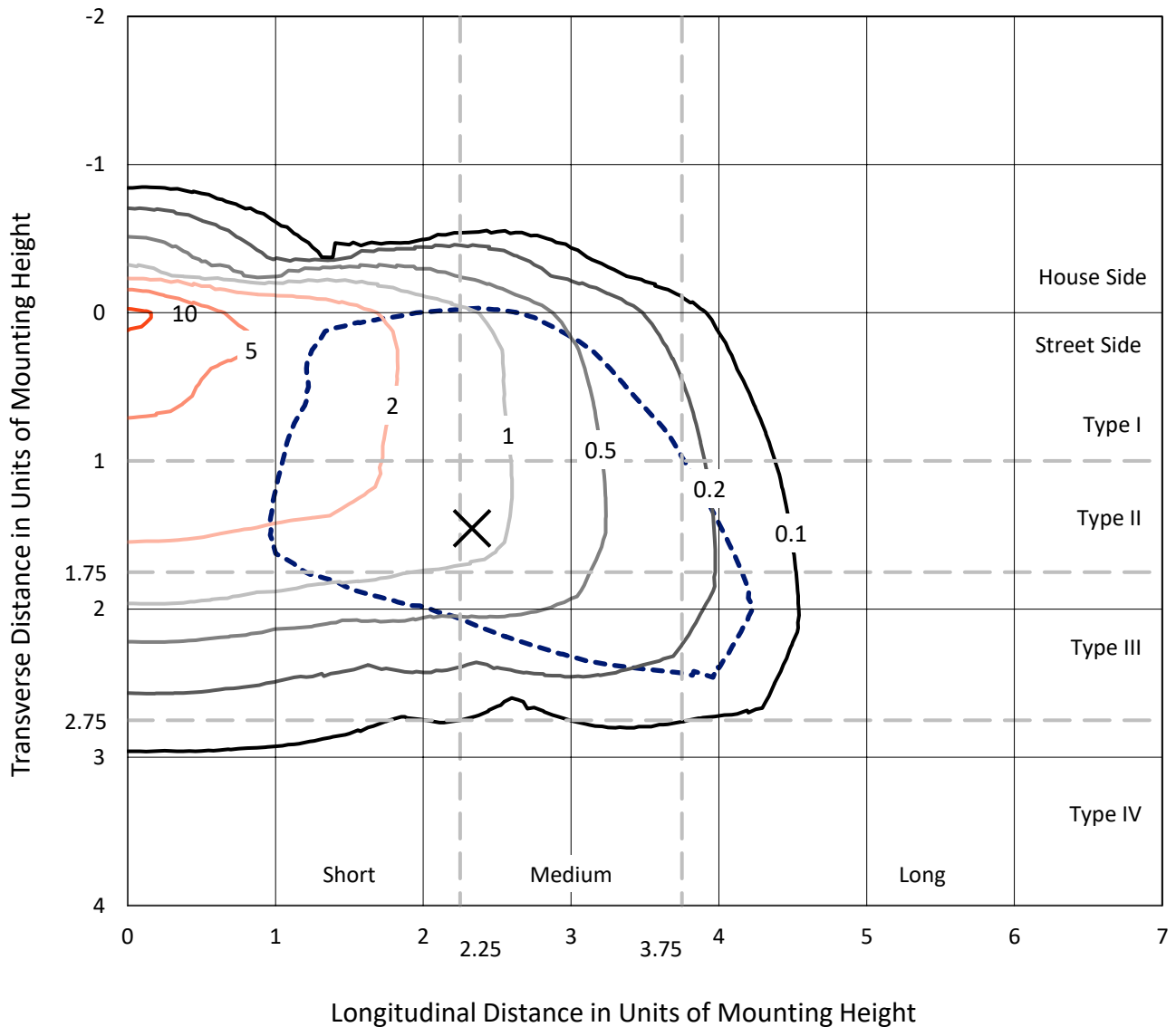
Lumens per Lamp: N/A  
Luminaire Lumens: 8041.9 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

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

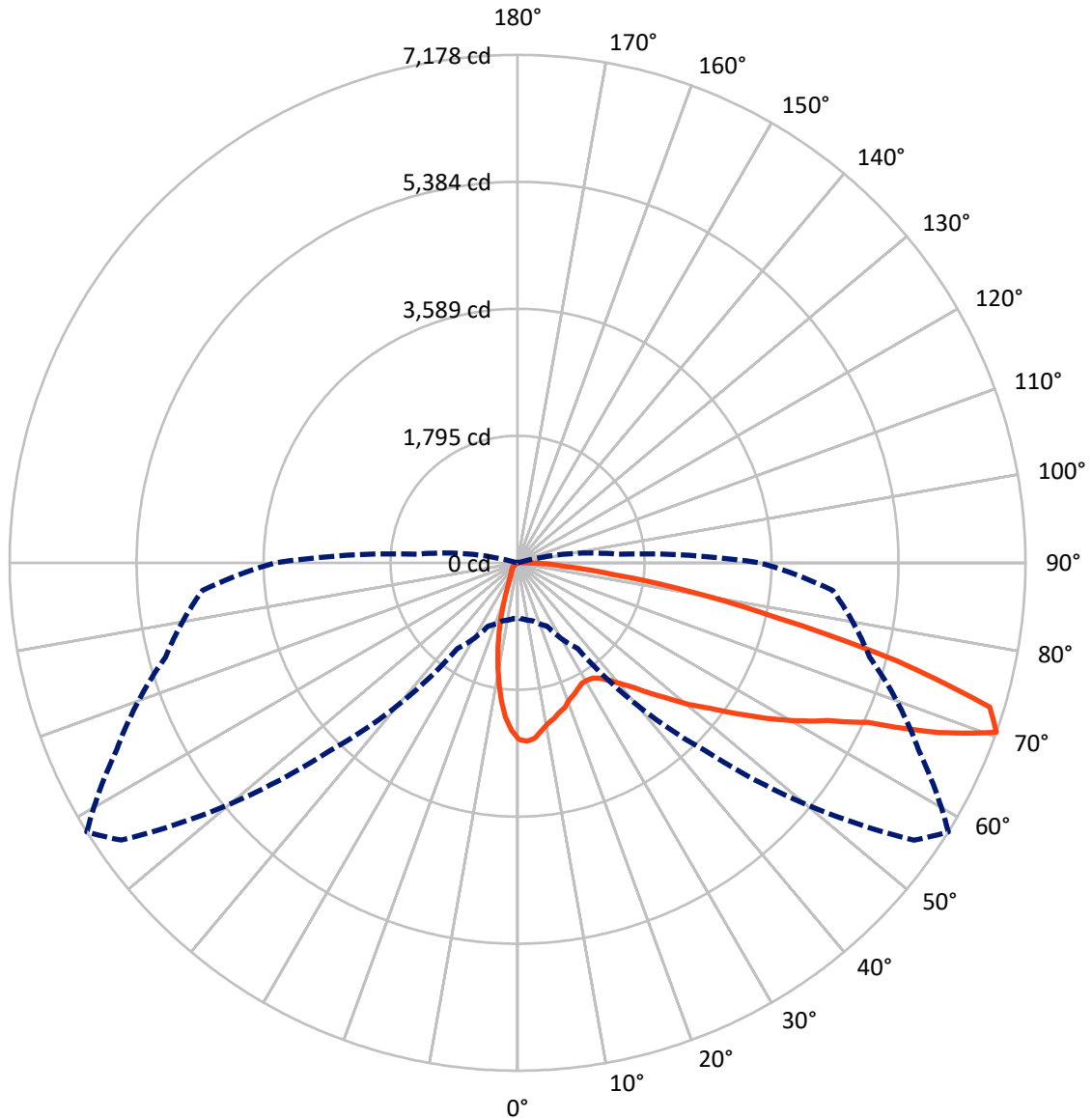
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.1 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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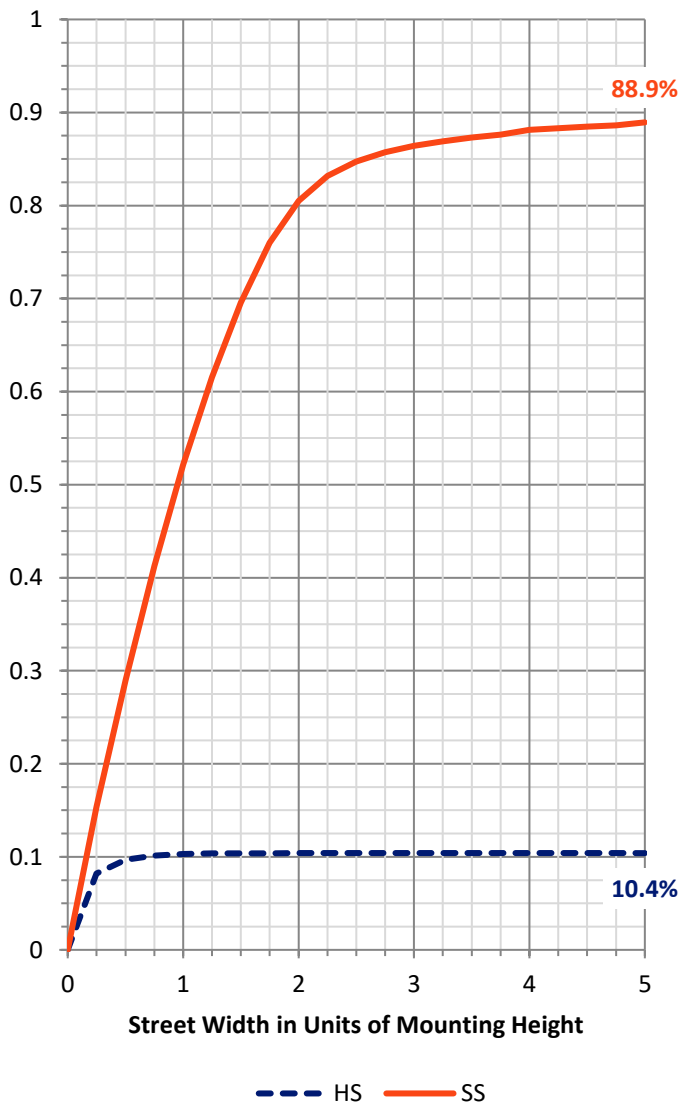
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	842.1	0.0	842.1
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	7199.8	0.0	7199.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	8041.9	0.0	8041.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.7	2.5
10°-20°	424.1	5.3
20°-30°	567.8	7.1
30°-40°	767.6	9.5
40°-50°	1101.6	13.7
50°-60°	1623.5	20.2
60°-70°	1980.2	24.6
70°-80°	1209.2	15.0
80°-90°	164.3	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°	8041.9	100.0
0°-180°	8041.9	100.0

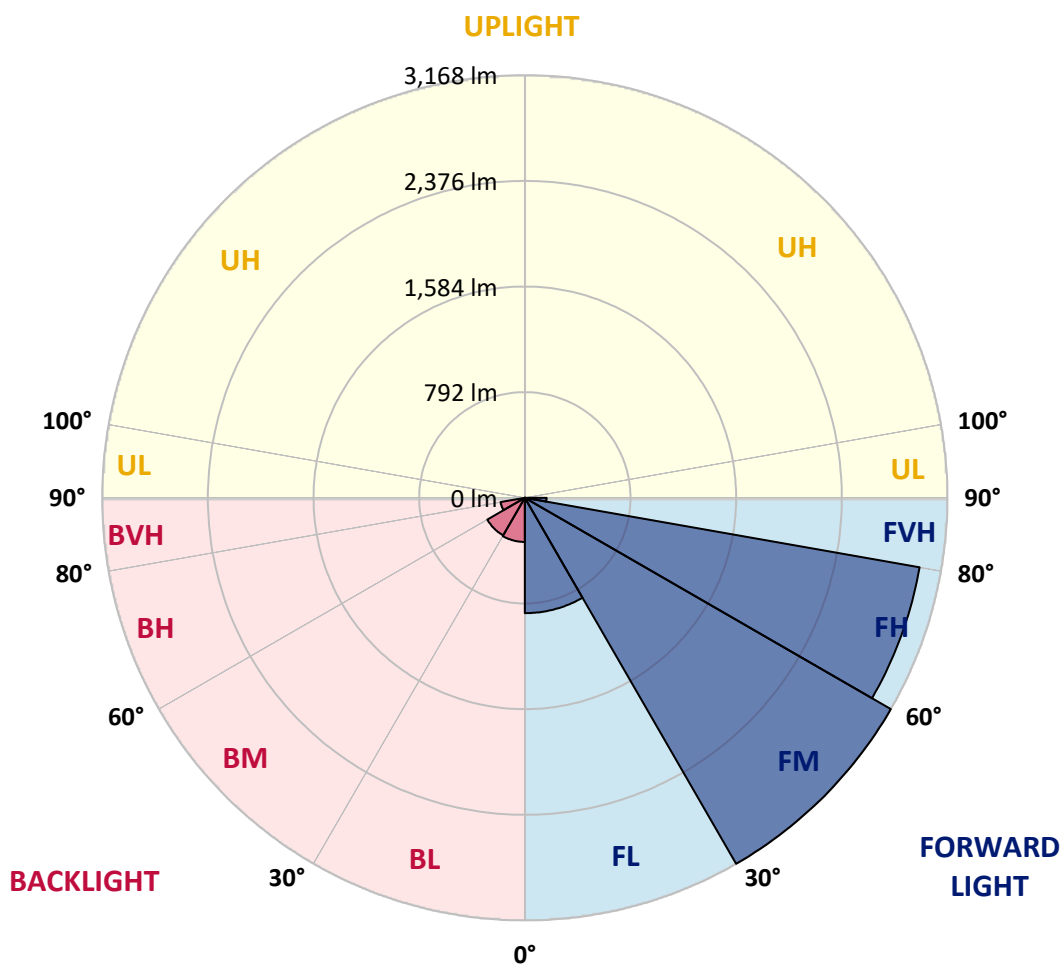


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	864.6	10.8			
FM (30°-60°)	3167.6	39.4			
FH (60°-80°)	3004.8	37.4			G2/5000
FVH (80°-90°)	162.7	2.0			G2/225
BL (0°-30°)	331.0	4.1	B1/500		
BM (30°-60°)	325.0	4.0	B1/1000		
BH (60°-80°)	184.6	2.3	B1/500		G1/500
BVH (80°-90°)	1.6	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°	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5
2.5°	2541.7	2551.1	2528.5	2554.9	2530.4	2541.7	2528.5	2524.7	2526.6	2528.5	2513.4
5°	2422.9	2445.5	2455.0	2439.9	2475.7	2470.1	2492.7	2494.6	2485.1	2475.7	2477.6
7.5°	2266.4	2289.0	2298.5	2307.9	2343.7	2390.9	2421.0	2402.2	2417.3	2451.2	2400.3
10°	2153.3	2147.6	2145.7	2164.6	2232.5	2272.1	2323.0	2317.3	2355.0	2387.1	2345.6
12.5°	2013.8	2002.4	2036.4	2051.5	2111.8	2181.6	2221.2	2262.7	2300.4	2334.3	2287.2
15°	1910.1	1919.5	1932.7	1964.7	2008.1	2100.5	2158.9	2198.5	2266.4	2283.4	2264.5
17.5°	1827.1	1834.6	1853.5	1870.5	1925.1	2013.8	2106.2	2153.3	2224.9	2270.2	2211.7
20°	1829.0	1806.3	1806.3	1823.3	1853.5	1959.1	2057.1	2072.2	2170.3	2247.6	2208.0
22.5°	1830.9	1823.3	1806.3	1804.5	1817.7	1893.1	1993.0	2027.0	2132.5	2223.1	2175.9
25°	1857.3	1829.0	1830.9	1804.5	1810.1	1847.8	1927.0	1977.9	2098.6	2236.3	2158.9
27.5°	1879.9	1893.1	1866.7	1855.4	1823.3	1821.4	1887.4	1930.8	2081.6	2266.4	2170.3
30°	1930.8	1940.2	1940.2	1932.7	1902.5	1859.1	1874.2	1928.9	2047.7	2260.8	2151.4
32.5°	2015.6	1998.7	2021.3	2010.0	1970.4	1902.5	1915.7	1944.0	2068.4	2332.4	2181.6
35°	2043.9	2057.1	2087.3	2062.8	2049.6	2010.0	1983.6	2004.3	2098.6	2404.1	2226.8
37.5°	2130.7	2111.8	2132.5	2187.2	2200.4	2128.8	2077.9	2108.0	2211.7	2488.9	2268.3
40°	2138.2	2153.3	2191.0	2298.5	2311.7	2281.5	2240.0	2247.6	2324.9	2598.3	2372.0
42.5°	2175.9	2192.9	2270.2	2360.7	2432.3	2438.0	2407.8	2407.8	2473.8	2773.6	2487.0
45°	2249.5	2221.2	2321.1	2473.8	2577.5	2598.3	2637.9	2628.4	2681.2	2958.4	2702.0
47.5°	2277.7	2287.2	2396.5	2581.3	2700.1	2796.3	2862.3	2864.1	2890.5	3194.1	2981.0
50°	2370.1	2368.2	2500.2	2671.8	2847.2	3022.5	3150.7	3150.7	3148.9	3424.1	3220.5
52.5°	2492.7	2488.9	2590.7	2794.4	3022.5	3243.1	3412.8	3418.5	3461.9	3707.0	3495.8
55°	2692.6	2675.6	2773.6	2924.5	3197.9	3465.6	3759.8	3761.7	3727.7	3908.7	3693.8
57.5°	2860.4	2858.5	2939.6	3084.7	3394.0	3752.2	4093.5	4144.4	4036.9	4116.1	3852.2
60°	2817.0	2841.5	3009.3	3224.3	3601.4	4110.5	4453.7	4532.8	4361.3	4257.6	3971.0
62.5°	2547.4	2603.9	2786.8	3130.0	3776.7	4630.9	4949.5	4913.7	4531.0	4378.2	4116.1
65°	1832.7	1889.3	2115.6	2630.3	3573.1	4998.6	5601.9	5439.8	4832.6	4557.4	4310.3
67.5°	1078.5	1101.2	1242.6	1678.1	2671.8	4798.7	6393.9	6407.1	5426.6	4832.6	4646.0
70°	778.7	795.7	850.4	989.9	1480.2	3761.7	6835.1	7178.3	6250.6	5149.4	4468.7
72.5°	597.7	597.7	690.1	824.0	942.8	2253.2	6290.2	6978.4	6429.7	4845.8	3601.4
75°	429.9	441.2	541.2	709.0	869.2	1131.3	4634.7	5537.8	5449.2	3927.6	2515.3
77.5°	247.0	252.7	380.9	593.9	816.4	776.8	2864.1	3754.1	3859.7	2458.7	1089.8
80°	126.3	130.1	213.1	469.5	739.1	676.9	1708.3	2471.9	2096.7	714.6	252.7
82.5°	62.2	62.2	96.2	299.8	627.9	599.6	1005.0	1365.1	742.9	164.0	105.6
85°	20.7	22.6	43.4	169.7	454.4	362.0	614.7	648.6	248.9	62.2	58.5
87.5°	5.7	7.5	11.3	62.2	198.0	237.6	365.8	414.8	101.8	24.5	28.3
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°	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5
2.5°	2456.9	2443.7	2428.6	2390.9	2360.7	2321.1	2294.7	2274.0	2234.4	2241.9	2224.9
5°	2432.3	2407.8	2321.1	2238.1	2162.7	2047.7	1968.5	1917.6	1876.1	1834.6	1864.8
7.5°	2389.0	2330.5	2194.8	2040.2	1879.9	1729.0	1578.2	1487.7	1421.7	1361.4	1359.5
10°	2315.4	2221.2	2008.1	1806.3	1559.3	1361.4	1169.0	1018.2	920.1	848.5	846.6
12.5°	2232.5	2134.4	1866.7	1538.6	1253.9	974.8	744.8	584.5	492.1	435.6	428.0
15°	2179.7	2036.4	1689.4	1301.0	948.4	635.4	412.9	313.0	277.2	264.0	264.0
17.5°	2111.8	1947.8	1514.1	1054.0	658.1	367.7	267.7	241.3	239.5	235.7	231.9
20°	2083.5	1879.9	1357.6	841.0	416.7	260.2	230.0	224.4	224.4	220.6	216.8
22.5°	2008.1	1781.8	1191.7	616.6	277.2	228.2	216.8	209.3	205.5	201.8	205.5
25°	1974.2	1712.1	1035.2	426.1	226.3	203.6	198.0	190.4	184.8	182.9	182.9
27.5°	1951.5	1642.3	882.4	296.0	199.9	186.7	175.4	169.7	162.2	154.6	154.6
30°	1934.6	1587.6	735.4	218.7	179.1	165.9	156.5	143.3	133.9	126.3	126.3
32.5°	1911.9	1523.5	588.3	186.7	162.2	149.0	132.0	120.7	107.5	101.8	101.8
35°	1919.5	1480.2	462.0	165.9	145.2	128.2	113.1	98.0	84.8	79.2	77.3
37.5°	1934.6	1448.1	350.7	149.0	130.1	111.2	94.3	77.3	69.8	62.2	62.2
40°	1998.7	1438.7	258.3	137.6	118.8	98.0	79.2	64.1	56.6	50.9	49.0
42.5°	2106.2	1451.9	199.9	124.4	107.5	83.0	66.0	52.8	45.3	39.6	37.7
45°	2243.8	1502.8	164.0	116.9	94.3	69.8	52.8	43.4	33.9	30.2	30.2
47.5°	2443.7	1582.0	143.3	107.5	83.0	58.5	45.3	33.9	26.4	22.6	22.6
50°	2669.9	1672.5	126.3	96.2	71.7	49.0	35.8	26.4	18.9	17.0	17.0
52.5°	2896.2	1787.5	116.9	88.6	62.2	39.6	28.3	18.9	13.2	11.3	11.3
55°	3133.8	1889.3	105.6	83.0	50.9	32.1	20.7	11.3	7.5	5.7	5.7
57.5°	3299.7	1928.9	92.4	71.7	39.6	24.5	15.1	7.5	3.8	1.9	1.9
60°	3418.5	1934.6	79.2	58.5	30.2	18.9	9.4	3.8	1.9	0.0	0.0
62.5°	3518.4	1945.9	67.9	45.3	22.6	13.2	5.7	1.9	0.0	0.0	0.0
65°	3716.4	1936.5	54.7	35.8	15.1	7.5	3.8	0.0	0.0	0.0	0.0
67.5°	3872.9	1842.2	43.4	24.5	9.4	3.8	1.9	0.0	0.0	0.0	0.0
70°	3426.0	1404.7	33.9	17.0	5.7	1.9	0.0	0.0	0.0	0.0	0.0
72.5°	2690.7	937.1	22.6	9.4	3.8	1.9	0.0	0.0	0.0	0.0	0.0
75°	1764.9	465.7	17.0	5.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	686.3	122.6	11.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	165.9	41.5	5.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	71.7	15.1	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.4	7.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.6	3.8	1.9	1.9	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)