

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: P672341

Luminaire Tested: **CCP-SA-2E-850-U-T3R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672341  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2E-850-U-T3R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ T3R distribution lens  
Light Source: (32) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

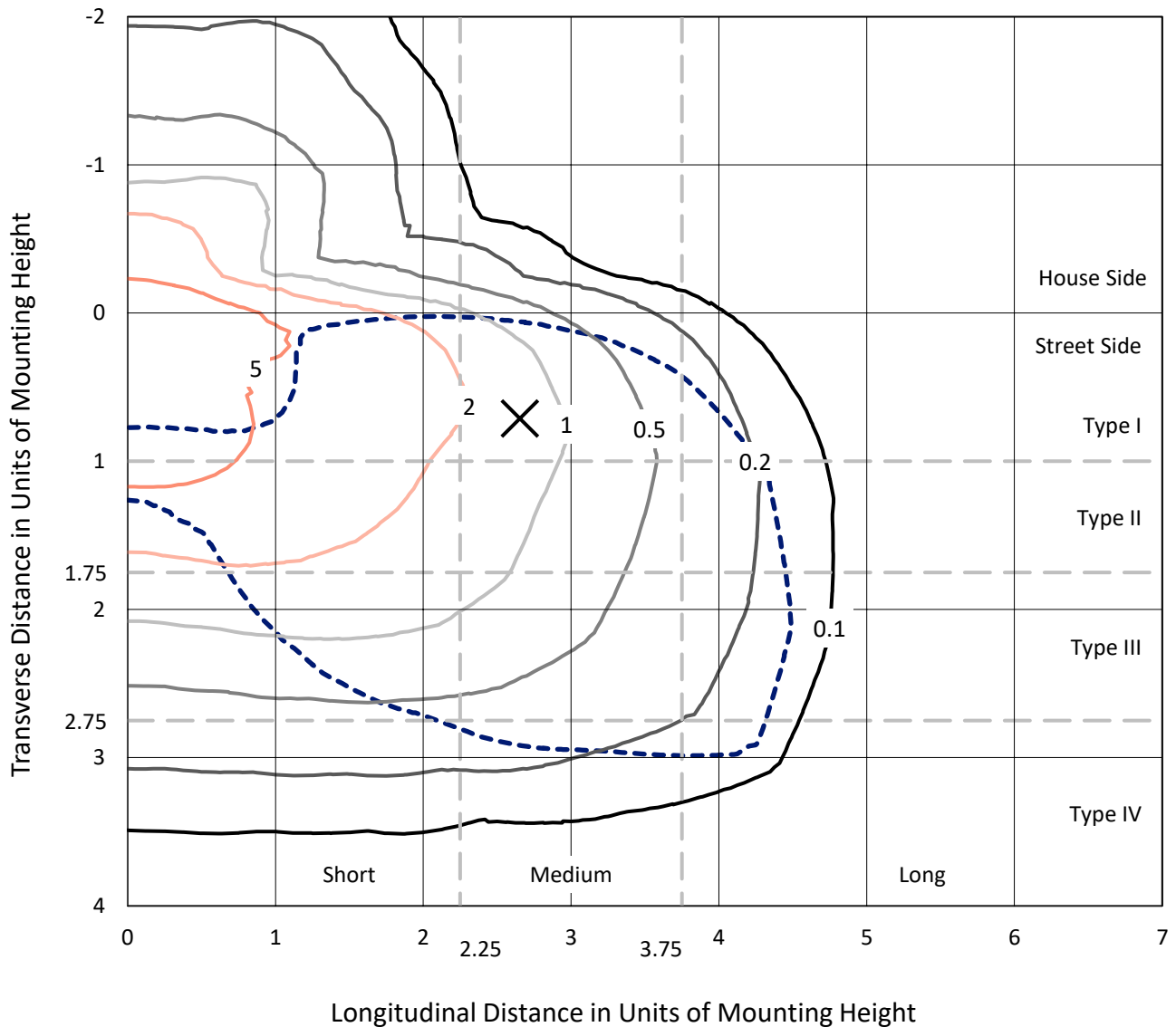
Lumens per Lamp: N/A  
Luminaire Lumens: 12126.5 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2

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

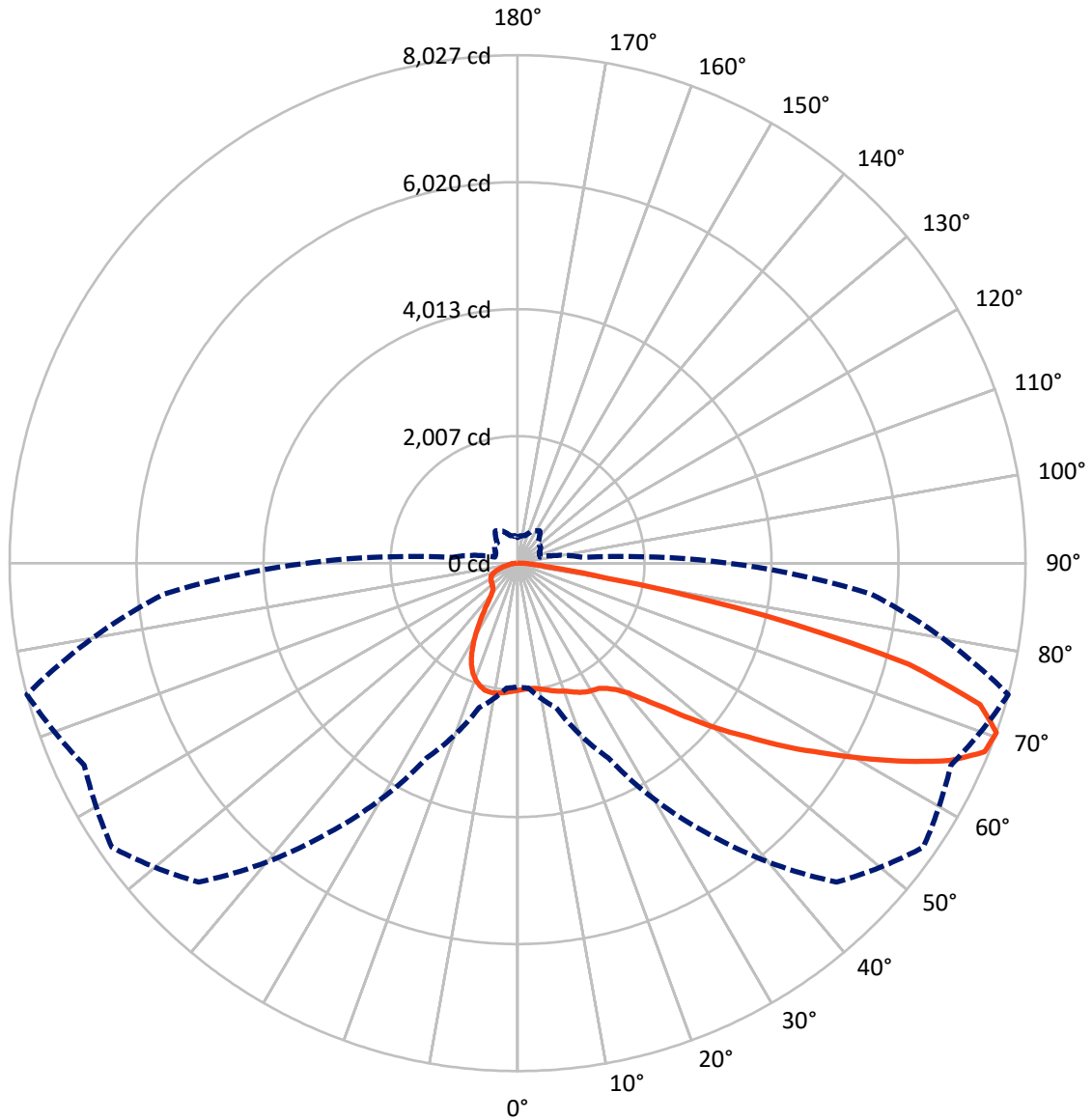
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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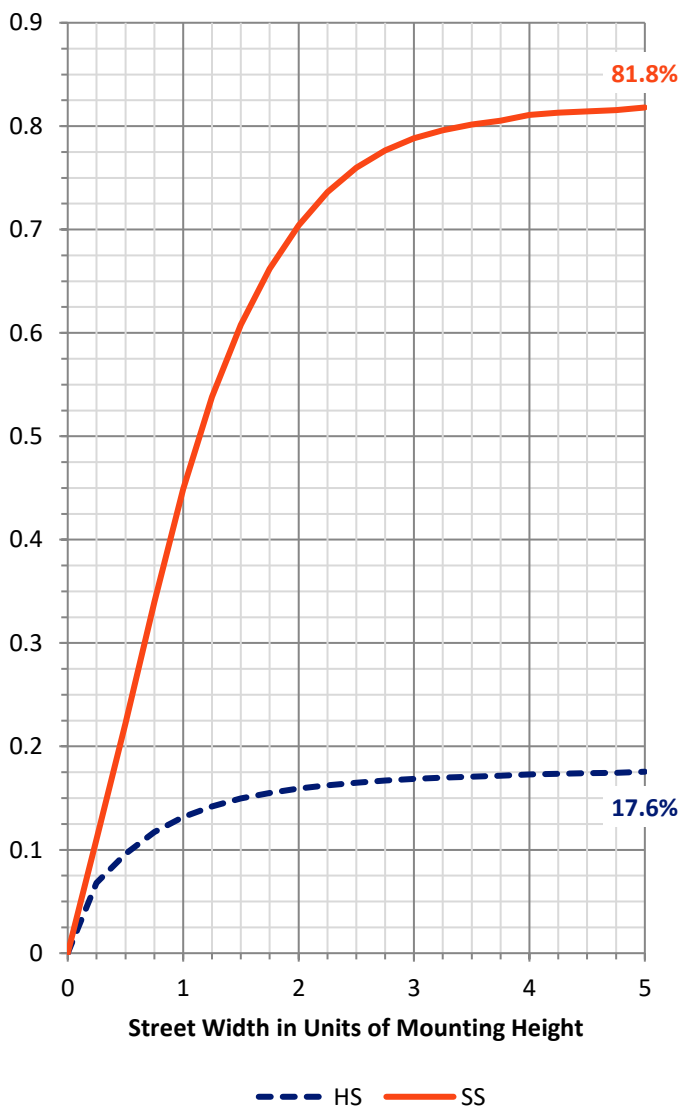
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2157.4	0.0	2157.4
	% Fixture	17.8	0.0	17.8
<b>Street Side</b>	Lumens	9969.0	0.0	9969.0
	% Fixture	82.2	0.0	82.2
<b>Total</b>	Lumens	12126.5	0.0	12126.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.4	1.5
10°-20°	481.6	4.0
20°-30°	811.3	6.7
30°-40°	1232.3	10.2
40°-50°	1765.4	14.6
50°-60°	2340.6	19.3
60°-70°	2929.1	24.2
70°-80°	2139.0	17.6
80°-90°	246.6	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°	12126.5	100.0
0°-180°	12126.5	100.0



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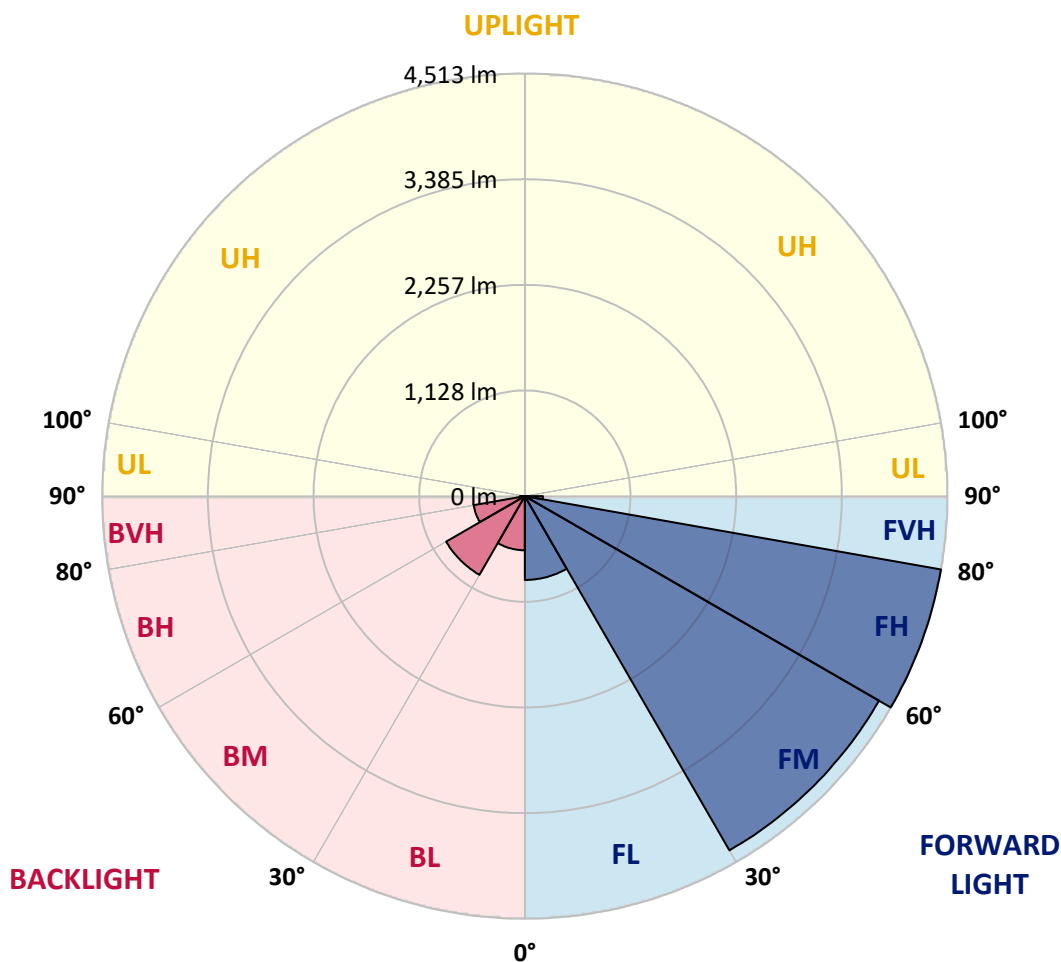
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	895.0	7.4			
FM (30°-60°)	4368.4	36.0			
FH (60°-80°)	4513.2	37.2			G2/5000
FVH (80°-90°)	192.5	1.6			G2/225
BL (0°-30°)	578.3	4.8	B2/1000		
BM (30°-60°)	970.0	8.0	B1/1000		
BH (60°-80°)	555.0	4.6	B2/1000		G2/1000
BVH (80°-90°)	54.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2008.7	2008.7	2008.7	2008.7	2008.7	2008.7	2008.7	2008.7	2008.7	2008.7	2008.7
2.5°	1898.7	1909.2	1918.8	1928.4	1936.3	1957.2	1961.6	1984.3	1990.4	1995.6	2002.6
5°	1792.3	1800.1	1809.7	1825.4	1842.0	1879.6	1905.7	1955.5	1983.4	1992.1	2016.5
7.5°	1734.7	1737.3	1750.4	1763.5	1782.7	1819.3	1855.1	1932.8	1988.6	1998.2	2050.6
10°	1692.8	1696.3	1708.5	1726.8	1746.0	1780.1	1824.6	1917.1	2007.8	2022.7	2096.8
12.5°	1678.0	1676.2	1690.2	1702.4	1729.5	1772.2	1818.5	1917.9	2034.0	2054.9	2164.0
15°	1737.3	1726.0	1734.7	1730.3	1739.1	1780.9	1835.9	1937.1	2066.3	2092.5	2233.8
17.5°	1868.2	1858.6	1852.5	1815.0	1790.5	1814.1	1866.5	1964.2	2100.3	2128.2	2296.6
20°	2063.7	2036.6	2013.9	1951.1	1883.0	1875.2	1911.8	1991.2	2132.6	2159.7	2363.0
22.5°	2286.2	2264.4	2227.7	2117.8	2012.2	1959.8	1969.4	2041.0	2179.7	2209.4	2438.9
25°	2567.1	2566.3	2491.2	2342.9	2183.2	2077.6	2057.6	2120.4	2232.9	2261.7	2501.7
27.5°	2887.4	2865.6	2776.6	2585.5	2384.8	2223.3	2176.2	2201.5	2275.7	2305.4	2552.3
30°	3161.4	3164.0	3073.2	2864.7	2599.4	2365.6	2276.6	2260.0	2303.6	2333.3	2599.4
32.5°	3454.6	3439.7	3356.8	3142.2	2831.5	2518.3	2341.1	2301.9	2332.4	2360.3	2664.9
35°	3730.3	3713.7	3642.2	3410.9	3087.2	2686.7	2428.4	2367.3	2400.5	2431.0	2745.2
37.5°	3993.0	3995.6	3914.4	3693.7	3335.0	2885.6	2557.5	2465.9	2501.7	2535.7	2867.3
40°	4222.4	4209.4	4146.5	3947.6	3592.4	3088.1	2703.3	2600.3	2670.1	2701.5	3021.8
42.5°	4295.7	4294.9	4319.3	4197.1	3862.9	3328.9	2884.8	2809.7	2908.3	2955.4	3211.1
45°	4232.0	4251.2	4392.6	4389.1	4133.4	3605.5	3132.6	3064.5	3206.8	3260.0	3442.4
47.5°	4169.2	4198.0	4390.0	4499.1	4376.0	3910.1	3437.1	3386.5	3590.7	3667.5	3682.3
50°	4077.6	4104.6	4333.3	4514.8	4524.4	4218.1	3831.5	3767.8	4030.5	4109.0	3943.2
52.5°	3975.5	3996.4	4232.9	4503.4	4595.0	4458.9	4218.1	4199.8	4501.7	4565.4	4208.5
55°	3411.8	3500.8	4085.4	4479.0	4643.9	4643.0	4594.2	4654.4	5015.6	5110.7	4504.3
57.5°	3088.1	3135.2	3670.1	4465.0	4735.5	4813.2	4982.5	5111.6	5564.5	5650.0	4830.6
60°	2982.5	3024.4	3461.5	4448.4	4917.9	5079.3	5362.0	5571.5	6154.3	6259.1	5195.4
62.5°	2886.5	2937.1	3376.9	4316.7	5138.7	5500.8	5814.9	6068.8	6776.5	6900.4	5558.4
65°	2691.1	2726.8	3221.6	4205.9	5348.1	6102.0	6468.5	6616.8	7379.5	7519.1	5799.2
67.5°	2353.4	2387.4	2871.7	3951.1	5484.2	6727.6	7183.1	7184.0	7845.4	7959.7	5849.8
70°	1956.3	1982.5	2367.3	3396.1	5200.6	7129.0	7828.0	7554.8	7977.2	8026.9	5609.0
72.5°	1398.8	1421.4	1733.8	2510.4	4264.3	6803.6	7974.6	7539.1	7657.8	7642.1	4924.0
75°	862.1	905.7	1061.9	1532.3	2650.0	5353.3	7177.0	6831.5	6430.1	6386.5	3707.6
77.5°	561.9	584.6	718.1	904.0	1169.3	3073.2	5451.0	5122.1	4060.1	4009.5	1993.0
80°	337.7	375.2	470.3	568.1	529.7	1175.4	3112.5	2544.5	1434.5	1418.8	612.6
82.5°	181.5	215.5	331.6	351.7	297.6	415.4	1127.4	827.2	459.0	453.7	229.5
85°	144.0	160.6	238.2	222.5	168.4	210.3	439.8	344.7	235.6	230.4	86.4
87.5°	87.3	109.9	180.6	150.1	83.8	75.9	201.6	163.2	110.8	103.0	34.0
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°	2008.7	2008.7	2008.7	2008.7	2008.7	2008.7	2008.7	2008.7	2008.7	2008.7	2008.7
2.5°	2015.7	2020.0	2024.4	2015.7	2019.2	2014.8	2014.8	2014.8	2003.5	2000.0	2010.4
5°	2034.9	2041.0	2044.5	2017.4	2000.8	1976.4	1956.3	1925.8	1908.3	1897.0	1897.0
7.5°	2074.1	2081.1	2065.4	2005.2	1946.7	1881.3	1814.1	1758.3	1718.1	1700.7	1705.9
10°	2131.7	2134.3	2082.0	1971.2	1846.4	1725.1	1630.0	1555.8	1506.1	1480.8	1477.3
12.5°	2198.9	2187.6	2085.5	1896.1	1711.1	1548.0	1431.9	1335.9	1272.2	1247.8	1235.6
15°	2265.2	2238.2	2072.4	1806.3	1557.6	1361.2	1212.9	1122.1	1082.9	1071.5	1067.2
17.5°	2324.6	2274.0	2028.8	1677.1	1379.6	1143.1	1034.0	1001.7	1006.1	1016.6	1020.9
20°	2378.7	2301.0	1965.9	1523.5	1157.0	972.9	945.9	975.6	1000.0	1015.7	1018.3
22.5°	2438.0	2327.2	1878.7	1336.8	974.7	894.4	926.7	960.7	985.1	1000.9	1003.5
25°	2483.4	2326.3	1755.6	1115.2	859.5	873.5	911.9	942.4	960.7	972.1	971.2
27.5°	2512.2	2305.4	1594.2	932.8	814.1	858.6	895.3	915.3	925.8	934.5	933.7
30°	2520.9	2265.2	1390.9	798.4	793.2	844.7	872.6	884.8	892.7	901.4	901.4
32.5°	2538.4	2203.3	1166.6	723.4	777.5	830.7	847.3	856.9	850.8	829.0	824.6
35°	2557.5	2134.3	954.6	688.5	762.6	821.1	836.8	811.5	745.2	736.5	733.0
37.5°	2595.1	2070.6	774.9	664.0	759.1	826.3	839.4	738.2	682.4	655.3	650.9
40°	2658.8	2006.9	654.4	646.6	763.5	849.0	804.5	703.3	610.8	559.3	550.6
42.5°	2742.5	1929.3	586.4	637.9	775.7	885.7	792.3	653.6	552.3	517.4	512.2
45°	2839.4	1826.3	554.1	636.1	790.6	904.0	795.8	613.4	526.2	499.1	497.4
47.5°	2939.7	1725.1	540.1	634.4	808.9	896.1	747.8	601.2	515.7	507.8	513.1
50°	3047.9	1609.9	528.8	630.0	823.7	896.1	721.6	598.6	519.2	536.6	554.1
52.5°	3149.2	1513.1	515.7	616.9	829.8	880.4	713.8	608.2	524.4	520.1	525.3
55°	3272.2	1463.3	508.7	598.6	818.5	832.4	704.2	634.4	528.8	493.0	493.0
57.5°	3412.7	1452.9	498.2	574.2	781.8	766.1	703.3	650.1	517.4	484.3	478.2
60°	3582.0	1475.5	485.2	543.6	737.3	714.6	697.2	650.1	499.1	469.5	472.1
62.5°	3719.0	1472.9	477.3	516.6	678.0	661.4	685.9	641.4	492.1	467.7	466.8
65°	3751.2	1417.1	454.6	481.7	604.7	596.8	673.6	619.5	482.5	458.1	451.1
67.5°	3642.2	1290.6	420.6	435.4	527.0	527.9	651.8	590.7	469.5	452.9	441.5
70°	3332.4	1043.6	370.0	379.6	443.3	454.6	619.5	556.7	447.6	430.2	403.1
72.5°	2788.8	750.4	311.5	314.1	352.5	382.2	563.7	510.5	415.4	374.3	345.5
75°	2064.5	498.2	253.9	250.4	264.4	310.6	481.7	459.0	373.5	310.6	295.8
77.5°	1091.6	294.9	195.5	196.3	187.6	238.2	382.2	398.8	331.6	261.8	246.9
80°	373.5	177.1	140.5	146.6	132.6	170.2	283.6	331.6	283.6	218.1	192.8
82.5°	171.0	108.2	100.3	104.7	95.1	115.2	194.6	251.3	226.0	158.8	128.3
85°	86.4	64.6	64.6	70.7	62.8	59.3	107.3	166.7	165.8	109.1	94.2
87.5°	35.8	31.4	29.7	34.0	29.7	22.7	30.5	60.2	87.3	65.4	41.9
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)