

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: P671610

Luminaire Tested: **CCP-SA-2E-840-U-SL4**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P671610  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2E-840-U-SL4  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ SL4 distribution lens  
Light Source: (32) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

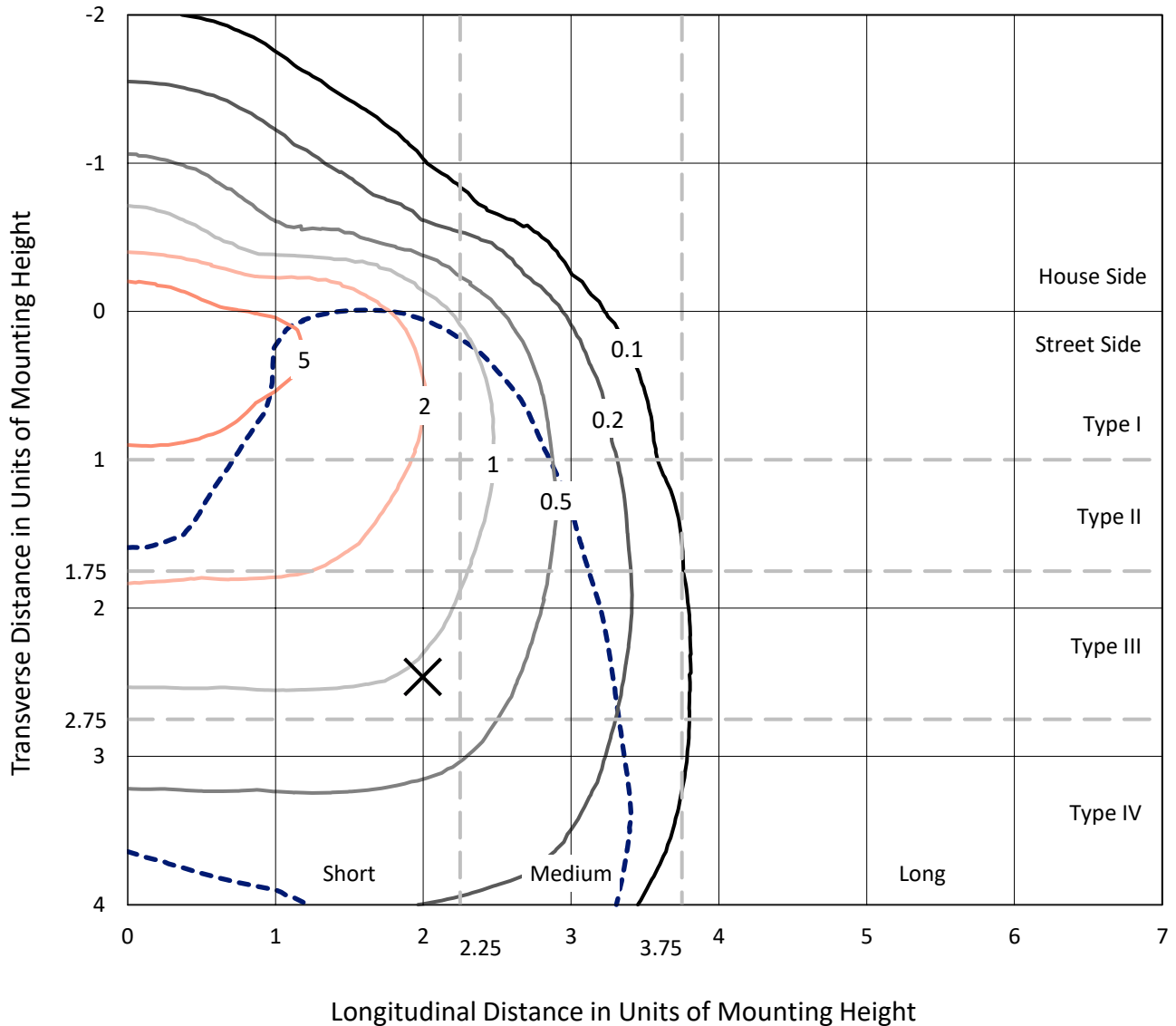
Lumens per Lamp: N/A  
Luminaire Lumens: 11423.6 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

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

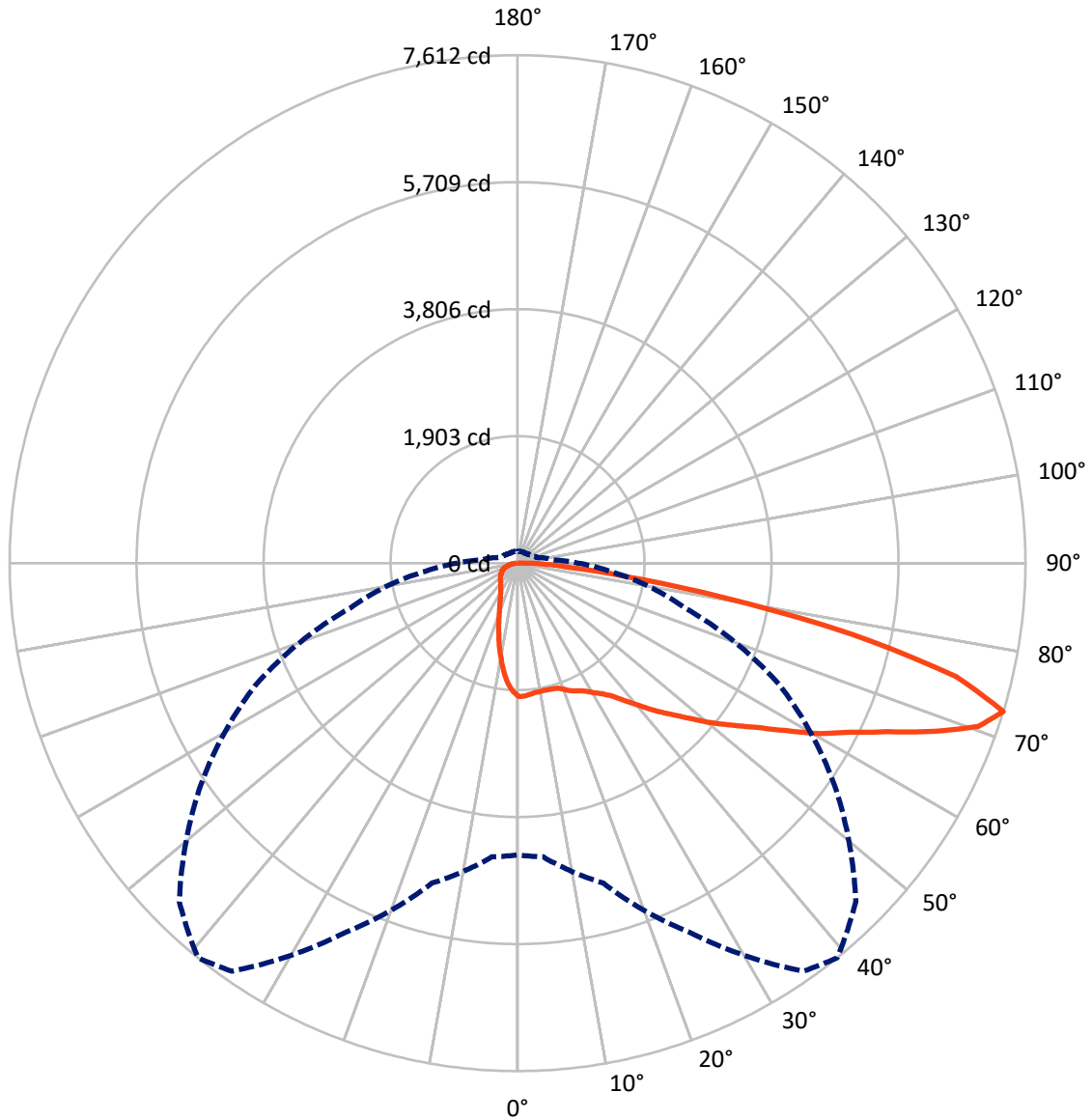
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.9 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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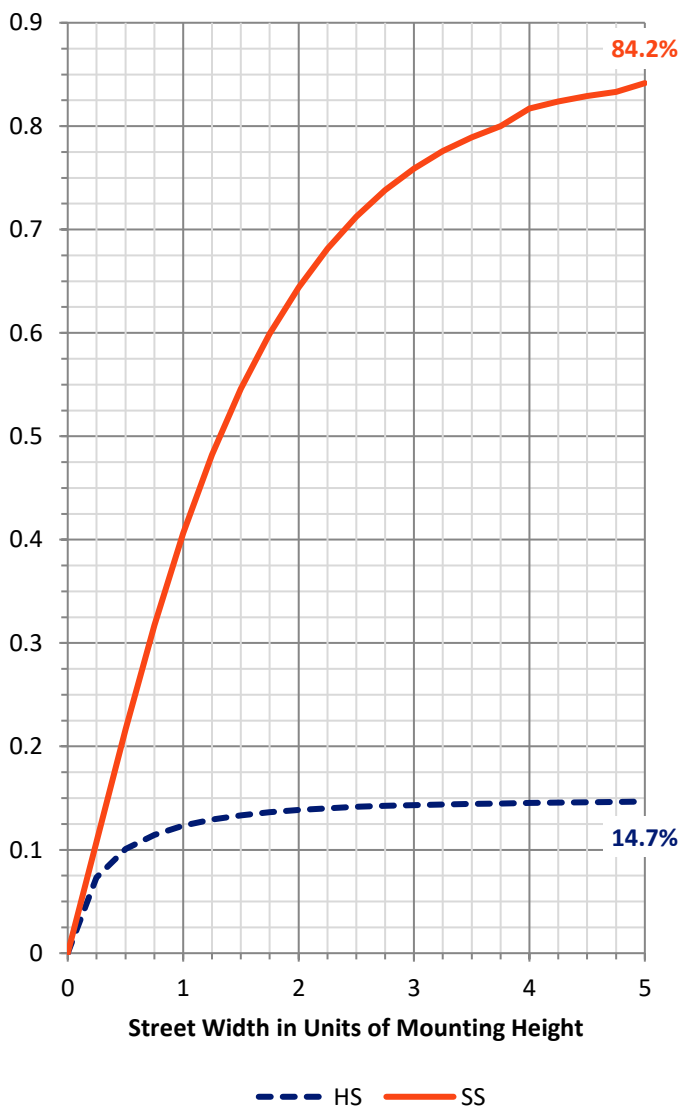
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1697.8	0.0	1697.8
	% Fixture	14.9	0.0	14.9
<b>Street Side</b>	Lumens	9725.8	0.0	9725.8
	% Fixture	85.1	0.0	85.1
<b>Total</b>	Lumens	11423.6	0.0	11423.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.7	1.5
10°-20°	451.0	3.9
20°-30°	687.1	6.0
30°-40°	1005.0	8.8
40°-50°	1538.7	13.5
50°-60°	2256.7	19.8
60°-70°	2878.1	25.2
70°-80°	2079.5	18.2
80°-90°	350.8	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°	11423.6	100.0
0°-180°	11423.6	100.0



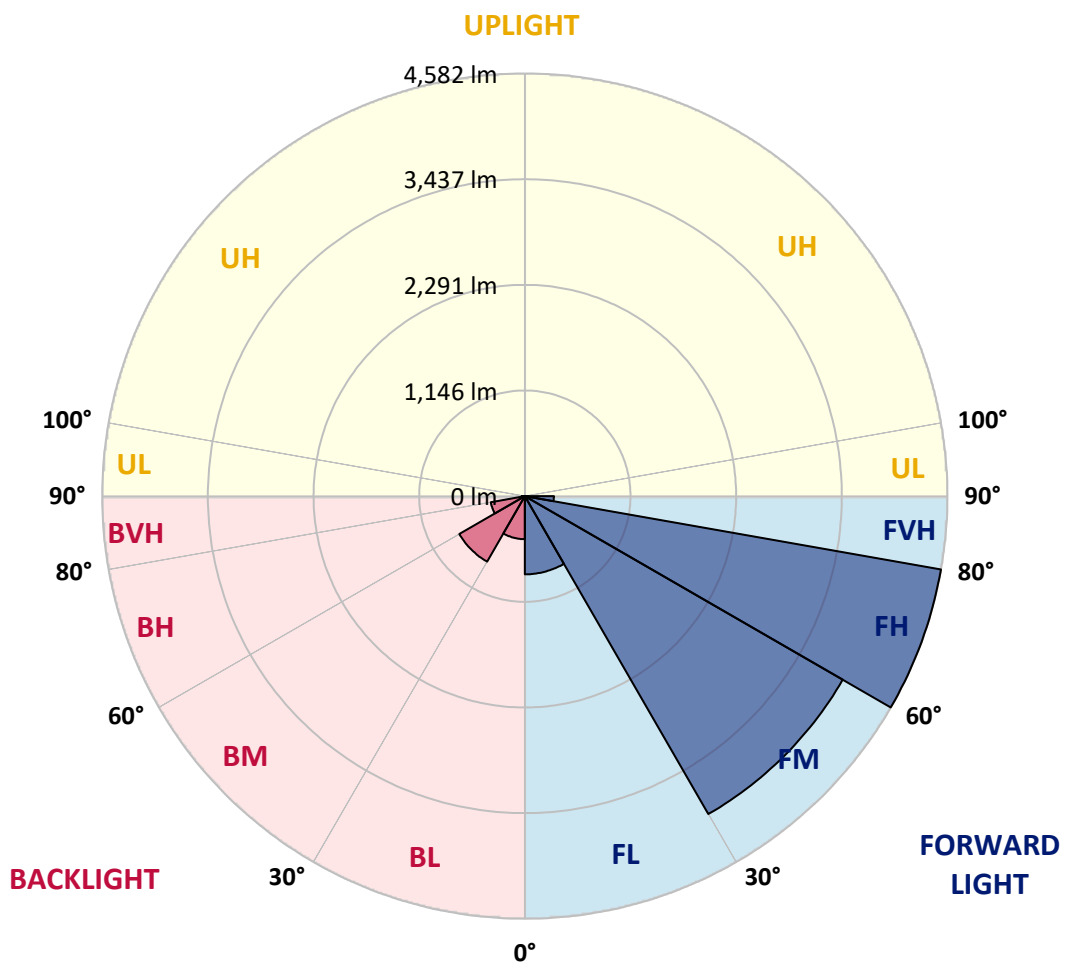
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	847.8	7.4			
FM (30°-60°)	3980.3	34.8			
FH (60°-80°)	4582.5	40.1			G2/5000
FVH (80°-90°)	315.2	2.8			G3/500
BL (0°-30°)	466.9	4.1	B1/500		
BM (30°-60°)	820.2	7.2	B1/1000		
BH (60°-80°)	375.1	3.3	B1/500		G1/500
BVH (80°-90°)	35.5	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°	1999.6	1999.6	1999.6	1999.6	1999.6	1999.6	1999.6	1999.6	1999.6	1999.6	1999.6
2.5°	2029.7	2034.0	2025.4	2016.8	2012.5	1995.3	2012.5	2003.9	1995.3	1995.3	1995.3
5°	2003.9	2008.2	2008.2	1999.6	2003.9	1973.9	1969.6	1973.9	1961.0	1952.4	1948.1
7.5°	1965.3	1973.9	1991.0	1986.8	1969.6	1956.7	1961.0	1956.7	1935.3	1922.4	1888.1
10°	1935.3	1943.8	1952.4	1961.0	1956.7	1952.4	1948.1	1931.0	1926.7	1896.6	1862.3
12.5°	1905.2	1905.2	1909.5	1943.8	1948.1	1948.1	1922.4	1922.4	1909.5	1905.2	1853.7
15°	1875.2	1888.1	1922.4	1931.0	1948.1	1956.7	1943.8	1943.8	1922.4	1892.4	1853.7
17.5°	1883.8	1905.2	1939.6	1961.0	1969.6	1969.6	1986.8	1973.9	1943.8	1926.7	1888.1
20°	1926.7	1931.0	1973.9	2012.5	2021.1	2021.1	2003.9	1991.0	1969.6	1939.6	1888.1
22.5°	1952.4	1982.5	2034.0	2055.4	2081.2	2081.2	2059.7	2029.7	1999.6	1969.6	1913.8
25°	2064.0	2068.3	2089.7	2124.1	2136.9	2119.8	2098.3	2064.0	2025.4	1995.3	1943.8
27.5°	2141.2	2162.7	2188.4	2205.6	2184.1	2171.3	2154.1	2115.5	2085.5	2059.7	1986.8
30°	2282.8	2257.1	2274.3	2282.8	2244.2	2252.8	2205.6	2171.3	2136.9	2136.9	2055.4
32.5°	2368.7	2390.1	2373.0	2368.7	2338.6	2334.3	2304.3	2265.7	2244.2	2270.0	2158.4
35°	2518.8	2506.0	2506.0	2501.7	2467.4	2445.9	2445.9	2377.2	2398.7	2454.5	2317.2
37.5°	2596.1	2591.8	2617.5	2639.0	2604.7	2617.5	2604.7	2574.6	2583.2	2681.9	2514.6
40°	2673.3	2703.4	2754.9	2763.4	2784.9	2802.1	2793.5	2789.2	2823.5	2982.3	2780.6
42.5°	2746.3	2772.0	2849.3	2917.9	2969.4	3025.2	3029.5	3029.5	3141.1	3368.5	3102.4
45°	2840.7	2862.1	2969.4	3106.7	3192.5	3231.2	3265.5	3304.1	3454.3	3724.6	3445.7
47.5°	2969.4	2986.6	3115.3	3286.9	3454.3	3475.8	3544.4	3587.3	3814.7	4089.4	3797.6
50°	3153.9	3141.1	3244.0	3492.9	3656.0	3759.0	3857.7	3934.9	4158.0	4458.4	4072.2
52.5°	3304.1	3304.1	3381.4	3711.8	3934.9	4033.6	4136.6	4243.9	4501.3	4827.4	4295.3
55°	3561.6	3535.8	3583.0	3926.3	4248.1	4342.5	4539.9	4630.0	4878.9	5102.1	4484.2
57.5°	3737.5	3750.4	3806.2	4209.5	4617.2	4733.0	4930.4	4994.8	5213.6	5389.6	4621.5
60°	3969.2	3926.3	4046.5	4522.8	5024.8	5187.9	5350.9	5389.6	5552.6	5574.1	4685.8
62.5°	4192.4	4183.8	4286.8	4836.0	5462.5	5578.4	5745.7	5788.6	5857.3	5720.0	4595.7
65°	4329.7	4385.5	4578.6	5179.3	5960.3	6089.0	6256.4	6170.5	6093.3	5591.2	4153.7
67.5°	4518.5	4544.2	4840.3	5552.6	6535.3	6728.4	6874.3	6535.3	5960.3	5063.4	3497.2
70°	4561.4	4630.0	5016.2	5943.1	7127.4	7324.8	7333.4	6410.8	5475.4	4119.4	2536.0
72.5°	4372.6	4419.8	4964.7	6106.2	7466.4	7612.3	7170.4	5797.2	4338.3	2596.1	1381.7
75°	3677.4	3810.5	4321.1	5604.1	6844.2	6788.4	6076.1	4424.1	2604.7	1150.0	583.6
77.5°	2561.8	2566.1	3098.1	4076.5	5123.5	5110.6	4334.0	2566.1	1115.7	463.4	343.3
80°	1137.1	1218.7	1540.5	2197.0	3111.0	3111.0	2527.4	1274.4	557.8	300.4	236.0
82.5°	669.4	695.2	823.9	1025.6	1514.7	1596.3	1210.1	849.6	381.9	188.8	145.9
85°	493.5	536.4	613.6	617.9	716.6	729.5	669.4	738.1	261.8	103.0	120.1
87.5°	369.0	394.8	489.2	407.7	381.9	360.4	411.9	755.2	98.7	51.5	38.6
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°	1999.6	1999.6	1999.6	1999.6	1999.6	1999.6	1999.6	1999.6	1999.6	1999.6	1999.6
2.5°	1978.2	1978.2	1969.6	1952.4	1952.4	1918.1	1926.7	1935.3	1913.8	1913.8	1918.1
5°	1948.1	1931.0	1909.5	1883.8	1866.6	1819.4	1810.8	1780.8	1776.5	1767.9	1755.0
7.5°	1888.1	1862.3	1823.7	1785.1	1729.3	1686.4	1634.9	1592.0	1574.8	1561.9	1557.7
10°	1832.3	1828.0	1763.6	1686.4	1600.6	1519.0	1441.8	1386.0	1351.7	1330.2	1325.9
12.5°	1832.3	1798.0	1707.8	1600.6	1476.1	1356.0	1257.3	1180.0	1132.8	1098.5	1085.6
15°	1823.7	1789.4	1669.2	1506.2	1364.6	1201.5	1064.2	982.7	914.0	879.7	884.0
17.5°	1832.3	1780.8	1613.4	1437.5	1240.1	1064.2	901.1	802.4	733.8	708.0	703.7
20°	1836.6	1772.2	1570.5	1343.1	1111.4	914.0	759.5	665.1	613.6	596.5	596.5
22.5°	1828.0	1746.5	1506.2	1231.5	999.8	789.6	660.8	579.3	545.0	523.5	532.1
25°	1866.6	1742.2	1446.1	1137.1	871.1	686.6	587.9	527.8	506.3	493.5	497.8
27.5°	1875.2	1742.2	1398.9	1029.9	759.5	609.3	532.1	493.5	476.3	467.7	463.4
30°	1909.5	1750.7	1343.1	922.6	669.4	549.3	489.2	467.7	454.9	450.6	450.6
32.5°	2003.9	1776.5	1283.0	832.5	592.2	497.8	459.1	442.0	433.4	429.1	433.4
35°	2115.5	1845.2	1218.7	738.1	536.4	463.4	433.4	420.5	416.2	416.2	416.2
37.5°	2287.1	1948.1	1162.9	660.8	489.2	429.1	407.7	403.4	399.1	403.4	403.4
40°	2484.5	2059.7	1111.4	600.7	454.9	407.7	386.2	386.2	381.9	386.2	390.5
42.5°	2711.9	2197.0	1059.9	540.7	424.8	390.5	373.3	369.0	364.7	373.3	377.6
45°	3025.2	2385.8	1025.6	506.3	403.4	373.3	356.2	356.2	351.9	351.9	360.4
47.5°	3286.9	2566.1	1025.6	472.0	390.5	360.4	343.3	343.3	334.7	339.0	339.0
50°	3505.8	2720.5	1047.0	463.4	373.3	347.6	334.7	326.1	321.8	321.8	321.8
52.5°	3651.7	2814.9	1064.2	454.9	364.7	330.4	321.8	317.5	309.0	304.7	309.0
55°	3797.6	2879.3	1068.5	454.9	351.9	313.2	304.7	304.7	296.1	291.8	291.8
57.5°	3853.4	2853.6	1008.4	446.3	343.3	300.4	291.8	287.5	283.2	278.9	278.9
60°	3827.6	2759.1	875.4	424.8	334.7	291.8	274.6	274.6	274.6	266.0	270.3
62.5°	3651.7	2437.3	703.7	390.5	321.8	274.6	257.5	266.0	266.0	261.8	261.8
65°	3188.3	2012.5	570.7	360.4	304.7	261.8	244.6	257.5	261.8	257.5	253.2
67.5°	2548.9	1549.1	472.0	326.1	283.2	240.3	227.4	240.3	244.6	240.3	240.3
70°	1750.7	999.8	381.9	291.8	253.2	218.8	206.0	214.6	214.6	218.8	218.8
72.5°	905.4	540.7	313.2	248.9	218.8	197.4	184.5	184.5	180.2	180.2	180.2
75°	450.6	369.0	261.8	210.3	184.5	167.4	158.8	150.2	150.2	150.2	150.2
77.5°	313.2	283.2	214.6	167.4	150.2	137.3	137.3	124.4	124.4	124.4	124.4
80°	236.0	223.1	163.1	128.7	115.9	107.3	107.3	103.0	103.0	98.7	98.7
82.5°	167.4	180.2	124.4	94.4	85.8	81.5	81.5	77.2	77.2	68.7	68.7
85°	133.0	150.2	94.4	68.7	64.4	55.8	55.8	51.5	51.5	47.2	42.9
87.5°	38.6	81.5	38.6	25.7	25.7	25.7	25.7	21.5	21.5	17.2	17.2
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)