

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: P672329

Luminaire Tested: **CCP-SA-2D-840-U-T3R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672329  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-840-U-T3R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T3R distribution lens  
Light Source: (32) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

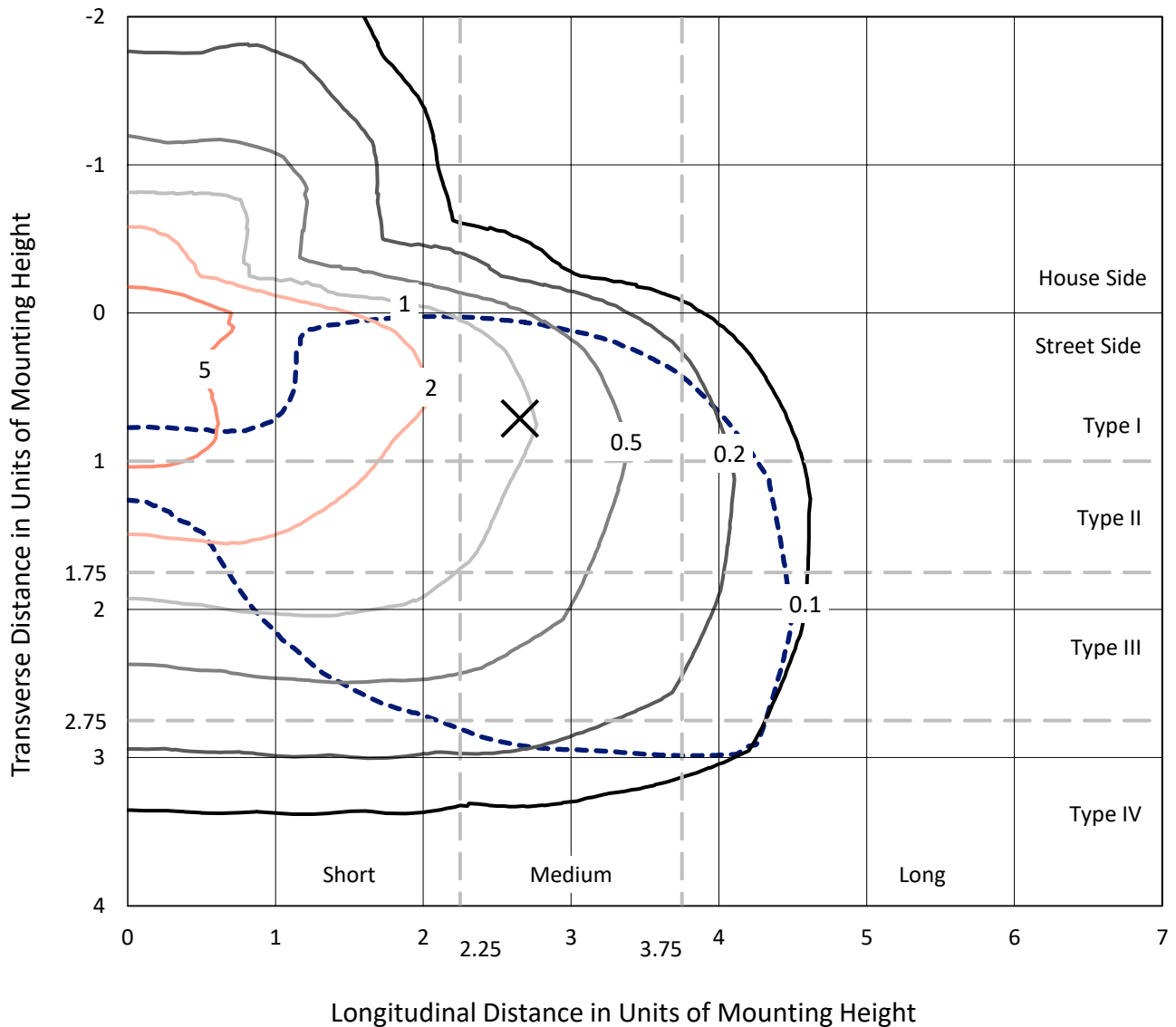
Lumens per Lamp: N/A  
Luminaire Lumens: 9664.6 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

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

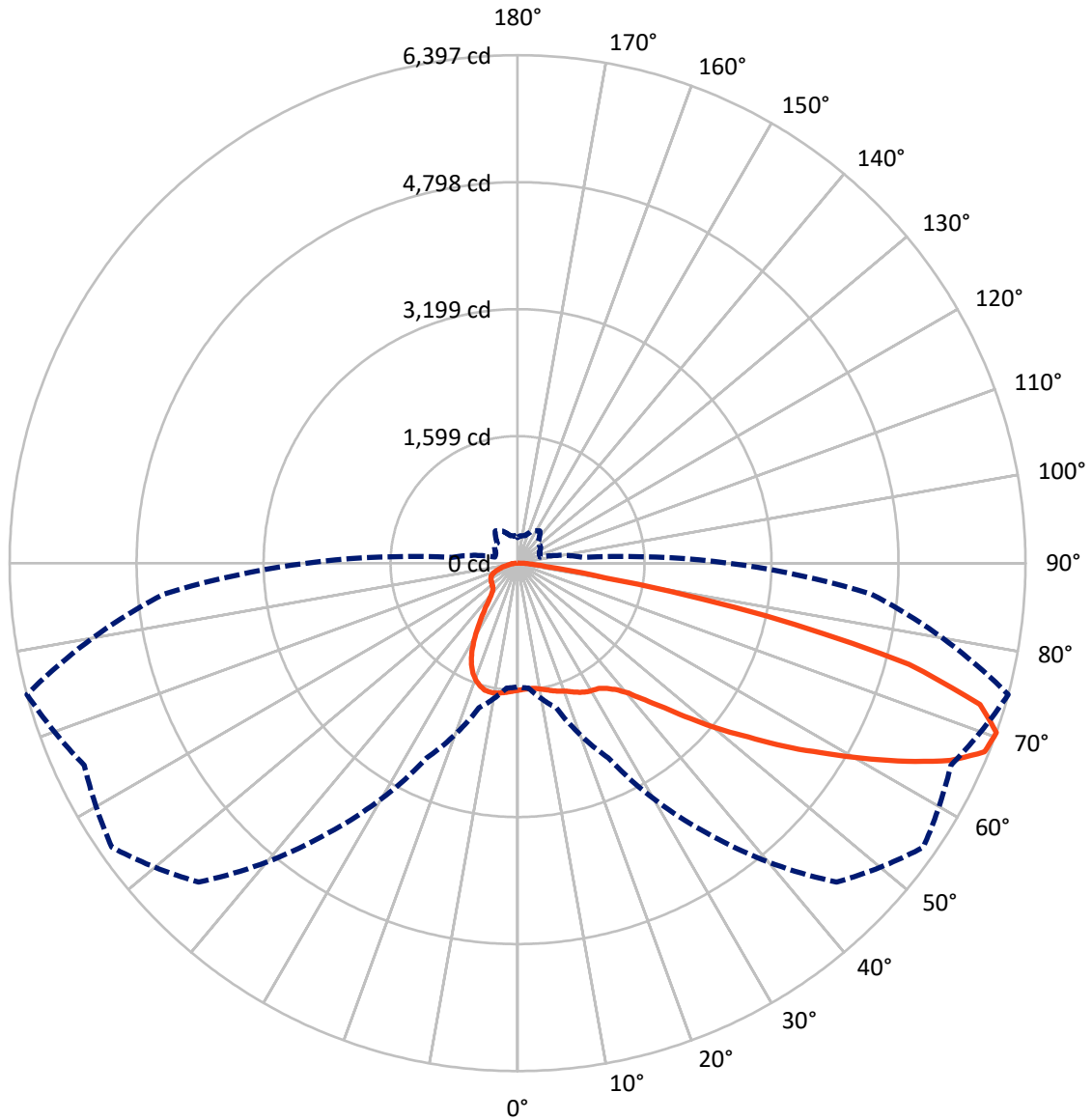
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.3 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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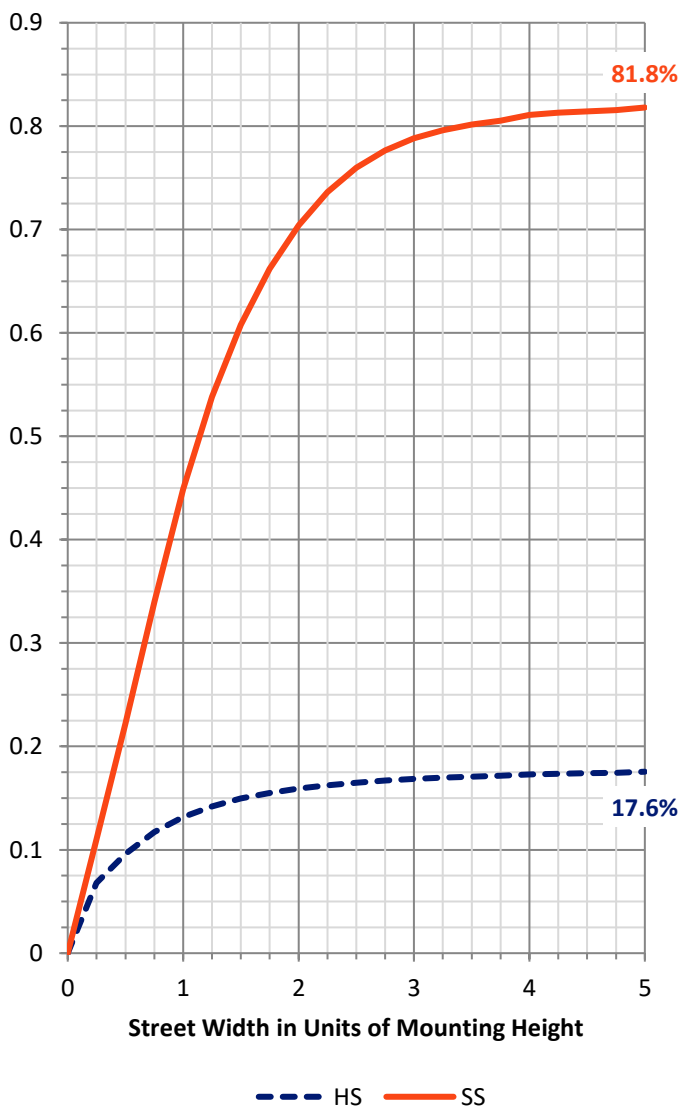
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1719.4	0.0	1719.4
	% Fixture	17.8	0.0	17.8
<b>Street Side</b>	Lumens	7945.1	0.0	7945.1
	% Fixture	82.2	0.0	82.2
<b>Total</b>	Lumens	9664.6	0.0	9664.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.8	1.5
10°-20°	383.8	4.0
20°-30°	646.6	6.7
30°-40°	982.1	10.2
40°-50°	1407.0	14.6
50°-60°	1865.4	19.3
60°-70°	2334.5	24.2
70°-80°	1704.7	17.6
80°-90°	196.6	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°	9664.6	100.0
0°-180°	9664.6	100.0



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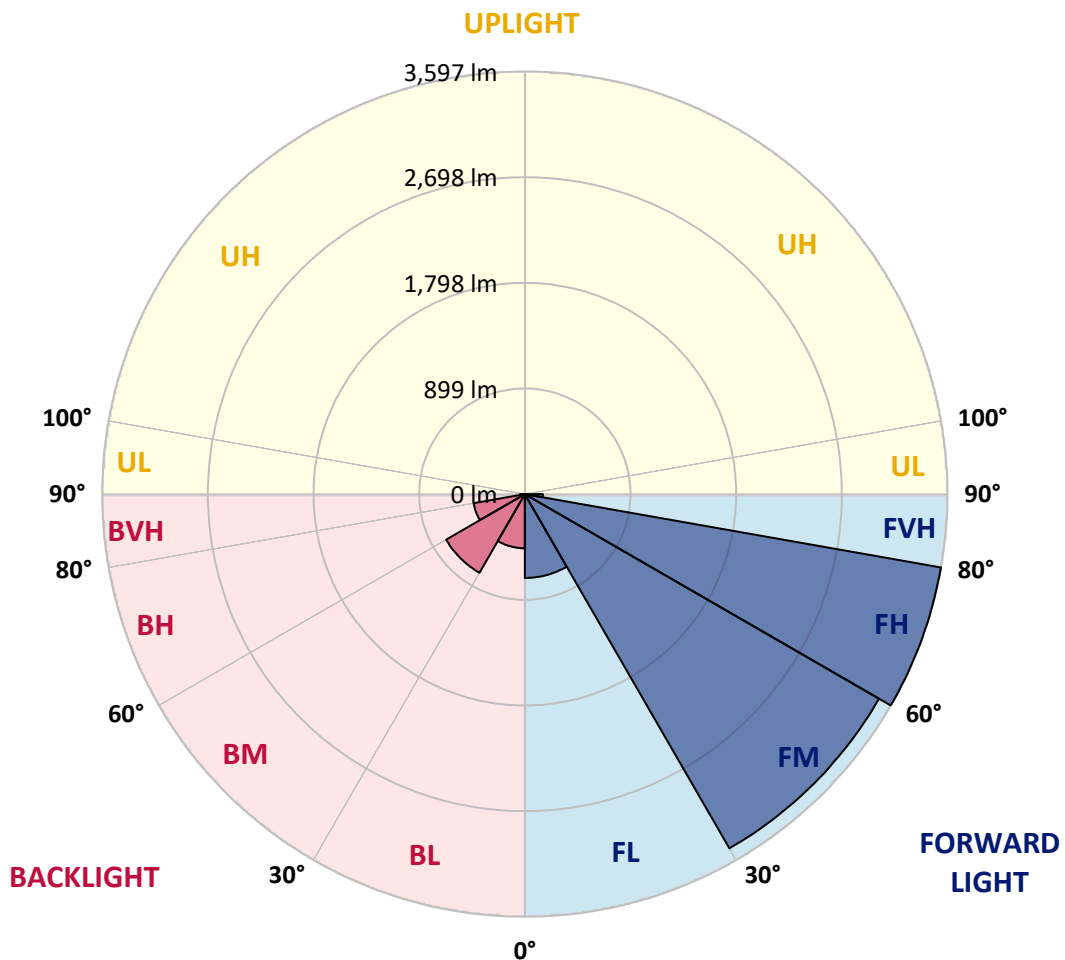
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	713.3	7.4			
FM (30°-60°)	3481.5	36.0			
FH (60°-80°)	3596.9	37.2			G2/5000
FVH (80°-90°)	153.4	1.6			G2/225
BL (0°-30°)	460.9	4.8	B1/500		
BM (30°-60°)	773.1	8.0	B1/1000		
BH (60°-80°)	442.3	4.6	B1/500		G1/500
BVH (80°-90°)	43.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1600.9	1600.9	1600.9	1600.9	1600.9	1600.9	1600.9	1600.9	1600.9	1600.9	1600.9
2.5°	1513.3	1521.6	1529.3	1536.9	1543.2	1559.9	1563.3	1581.4	1586.3	1590.5	1596.0
5°	1428.4	1434.7	1442.3	1454.8	1468.1	1498.0	1518.8	1558.5	1580.7	1587.7	1607.1
7.5°	1382.5	1384.6	1395.0	1405.5	1420.8	1450.0	1478.5	1540.4	1584.9	1592.5	1634.3
10°	1349.1	1351.9	1361.7	1376.3	1391.6	1418.7	1454.2	1527.9	1600.2	1612.0	1671.1
12.5°	1337.3	1335.9	1347.1	1356.8	1378.3	1412.4	1449.3	1528.6	1621.1	1637.7	1724.7
15°	1384.6	1375.6	1382.5	1379.0	1386.0	1419.4	1463.2	1543.9	1646.8	1667.7	1780.3
17.5°	1488.9	1481.3	1476.4	1446.5	1427.0	1445.8	1487.5	1565.4	1673.9	1696.2	1830.4
20°	1644.7	1623.1	1605.1	1555.0	1500.7	1494.5	1523.7	1587.0	1699.6	1721.2	1883.2
22.5°	1822.0	1804.7	1775.4	1687.8	1603.7	1561.9	1569.6	1626.6	1737.2	1760.8	1943.7
25°	2046.0	2045.3	1985.5	1867.2	1740.0	1655.8	1639.8	1689.9	1779.6	1802.6	1993.8
27.5°	2301.2	2283.8	2212.9	2060.6	1900.6	1772.0	1734.4	1754.6	1813.7	1837.3	2034.1
30°	2519.6	2521.6	2449.3	2283.1	2071.7	1885.3	1814.4	1801.2	1835.9	1859.6	2071.7
32.5°	2753.2	2741.4	2675.3	2504.3	2256.7	2007.0	1865.8	1834.6	1858.9	1881.1	2123.9
35°	2973.0	2959.8	2902.7	2718.5	2460.4	2141.2	1935.4	1886.7	1913.1	1937.5	2187.8
37.5°	3182.3	3184.4	3119.7	2943.8	2657.9	2299.8	2038.3	1965.3	1993.8	2020.9	2285.2
40°	3365.2	3354.8	3304.7	3146.1	2863.1	2461.1	2154.5	2072.4	2128.0	2153.1	2408.3
42.5°	3423.6	3422.9	3442.4	3345.0	3078.7	2653.1	2299.1	2239.3	2317.9	2355.4	2559.2
45°	3372.9	3388.2	3500.8	3498.0	3294.3	2873.5	2496.6	2442.4	2555.7	2598.1	2743.5
47.5°	3322.8	3345.7	3498.7	3585.7	3487.6	3116.2	2739.3	2699.0	2861.7	2922.9	2934.7
50°	3249.8	3271.3	3453.5	3598.2	3605.8	3361.7	3053.7	3002.9	3212.2	3274.8	3142.7
52.5°	3168.4	3185.1	3373.5	3589.1	3662.2	3553.7	3361.7	3347.1	3587.7	3638.5	3354.1
55°	2719.1	2790.1	3256.0	3569.7	3701.1	3700.4	3661.5	3709.4	3997.4	4073.2	3589.8
57.5°	2461.1	2498.7	2925.0	3558.5	3774.1	3836.0	3970.9	4073.9	4434.8	4502.9	3849.9
60°	2377.0	2410.4	2758.8	3545.3	3919.5	4048.1	4273.4	4440.3	4904.9	4988.3	4140.6
62.5°	2300.5	2340.8	2691.3	3440.3	4095.4	4384.0	4634.4	4836.7	5400.7	5499.5	4429.9
65°	2144.7	2173.2	2567.5	3352.0	4262.3	4863.2	5155.3	5273.5	5881.3	5992.6	4621.9
67.5°	1875.6	1902.7	2288.7	3148.9	4370.8	5361.8	5724.8	5725.5	6252.6	6343.7	4662.2
70°	1559.2	1580.0	1886.7	2706.6	4144.8	5681.7	6238.7	6021.1	6357.7	6397.3	4470.2
72.5°	1114.8	1132.9	1381.8	2000.8	3398.6	5422.3	6355.6	6008.5	6103.1	6090.6	3924.3
75°	687.1	721.9	846.3	1221.2	2112.0	4266.5	5719.9	5444.6	5124.7	5089.9	2954.9
77.5°	447.9	465.9	572.3	720.5	931.9	2449.3	4344.4	4082.2	3235.9	3195.5	1588.4
80°	269.1	299.0	374.8	452.7	422.1	936.7	2480.6	2027.9	1143.3	1130.8	488.2
82.5°	144.7	171.8	264.3	280.3	237.1	331.0	898.5	659.3	365.8	361.6	182.9
85°	114.7	128.0	189.9	177.3	134.2	167.6	350.5	274.7	187.8	183.6	68.8
87.5°	69.5	87.6	144.0	119.6	66.8	60.5	160.6	130.0	88.3	82.1	27.1
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°	1600.9	1600.9	1600.9	1600.9	1600.9	1600.9	1600.9	1600.9	1600.9	1600.9	1600.9
2.5°	1606.5	1609.9	1613.4	1606.5	1609.2	1605.8	1605.8	1605.8	1596.7	1593.9	1602.3
5°	1621.8	1626.6	1629.4	1607.8	1594.6	1575.2	1559.2	1534.8	1520.9	1511.9	1511.9
7.5°	1653.0	1658.6	1646.1	1598.1	1551.5	1499.4	1445.8	1401.3	1369.3	1355.4	1359.6
10°	1698.9	1701.0	1659.3	1571.0	1471.5	1374.9	1299.1	1240.0	1200.3	1180.2	1177.4
12.5°	1752.5	1743.5	1662.1	1511.2	1363.7	1233.7	1141.2	1064.7	1013.9	994.5	984.7
15°	1805.3	1783.8	1651.7	1439.5	1241.3	1084.9	966.7	894.3	863.0	854.0	850.5
17.5°	1852.6	1812.3	1616.9	1336.6	1099.5	911.0	824.1	798.4	801.8	810.2	813.7
20°	1895.8	1833.9	1566.8	1214.2	922.1	775.4	753.9	777.5	797.0	809.5	811.6
22.5°	1943.0	1854.7	1497.3	1065.4	776.8	712.8	738.6	765.7	785.1	797.7	799.7
25°	1979.2	1854.0	1399.2	888.8	685.0	696.1	726.7	751.1	765.7	774.7	774.0
27.5°	2002.2	1837.3	1270.6	743.4	648.8	684.3	713.5	729.5	737.9	744.8	744.1
30°	2009.1	1805.3	1108.5	636.3	632.1	673.2	695.4	705.2	711.4	718.4	718.4
32.5°	2023.0	1756.0	929.8	576.5	619.6	662.1	675.3	682.9	678.0	660.7	657.2
35°	2038.3	1701.0	760.8	548.7	607.8	654.4	666.9	646.8	593.9	586.9	584.2
37.5°	2068.2	1650.3	617.5	529.2	605.0	658.6	669.0	588.3	543.8	522.3	518.8
40°	2119.0	1599.5	521.6	515.3	608.5	676.7	641.2	560.5	486.8	445.8	438.8
42.5°	2185.7	1537.6	467.3	508.4	618.2	705.9	631.5	520.9	440.2	412.4	408.2
45°	2262.9	1455.5	441.6	507.0	630.1	720.5	634.2	488.9	419.3	397.8	396.4
47.5°	2342.9	1374.9	430.5	505.6	644.7	714.2	596.0	479.2	411.0	404.7	408.9
50°	2429.2	1283.1	421.4	502.1	656.5	714.2	575.1	477.1	413.8	427.7	441.6
52.5°	2509.8	1205.9	411.0	491.7	661.4	701.7	568.9	484.7	418.0	414.5	418.7
55°	2607.9	1166.2	405.4	477.1	652.3	663.4	561.2	505.6	421.4	392.9	392.9
57.5°	2719.8	1157.9	397.1	457.6	623.1	610.6	560.5	518.1	412.4	386.0	381.1
60°	2854.8	1176.0	386.7	433.3	587.6	569.6	555.7	518.1	397.8	374.1	376.2
62.5°	2963.9	1173.9	380.4	411.7	540.4	527.1	546.6	511.1	392.2	372.8	372.1
65°	2989.7	1129.4	362.3	383.9	481.9	475.7	536.9	493.8	384.6	365.1	359.5
67.5°	2902.7	1028.5	335.2	347.0	420.0	420.7	519.5	470.8	374.1	360.9	351.9
70°	2655.9	831.7	294.9	302.5	353.3	362.3	493.8	443.7	356.8	342.8	321.3
72.5°	2222.6	598.1	248.3	250.4	281.0	304.6	449.3	406.8	331.0	298.3	275.4
75°	1645.4	397.1	202.4	199.6	210.7	247.6	383.9	365.8	297.6	247.6	235.8
77.5°	870.0	235.1	155.8	156.5	149.5	189.9	304.6	317.8	264.3	208.6	196.8
80°	297.6	141.2	112.0	116.8	105.7	135.6	226.0	264.3	226.0	173.9	153.7
82.5°	136.3	86.2	80.0	83.5	75.8	91.8	155.1	200.3	180.1	126.6	102.2
85°	68.8	51.5	51.5	56.3	50.1	47.3	85.5	132.8	132.1	86.9	75.1
87.5°	28.5	25.0	23.6	27.1	23.6	18.1	24.3	48.0	69.5	52.2	33.4
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)