

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: P672307

Luminaire Tested: **CCP-SA-2D-830-U-T3R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672307  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-830-U-T3R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T3R distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

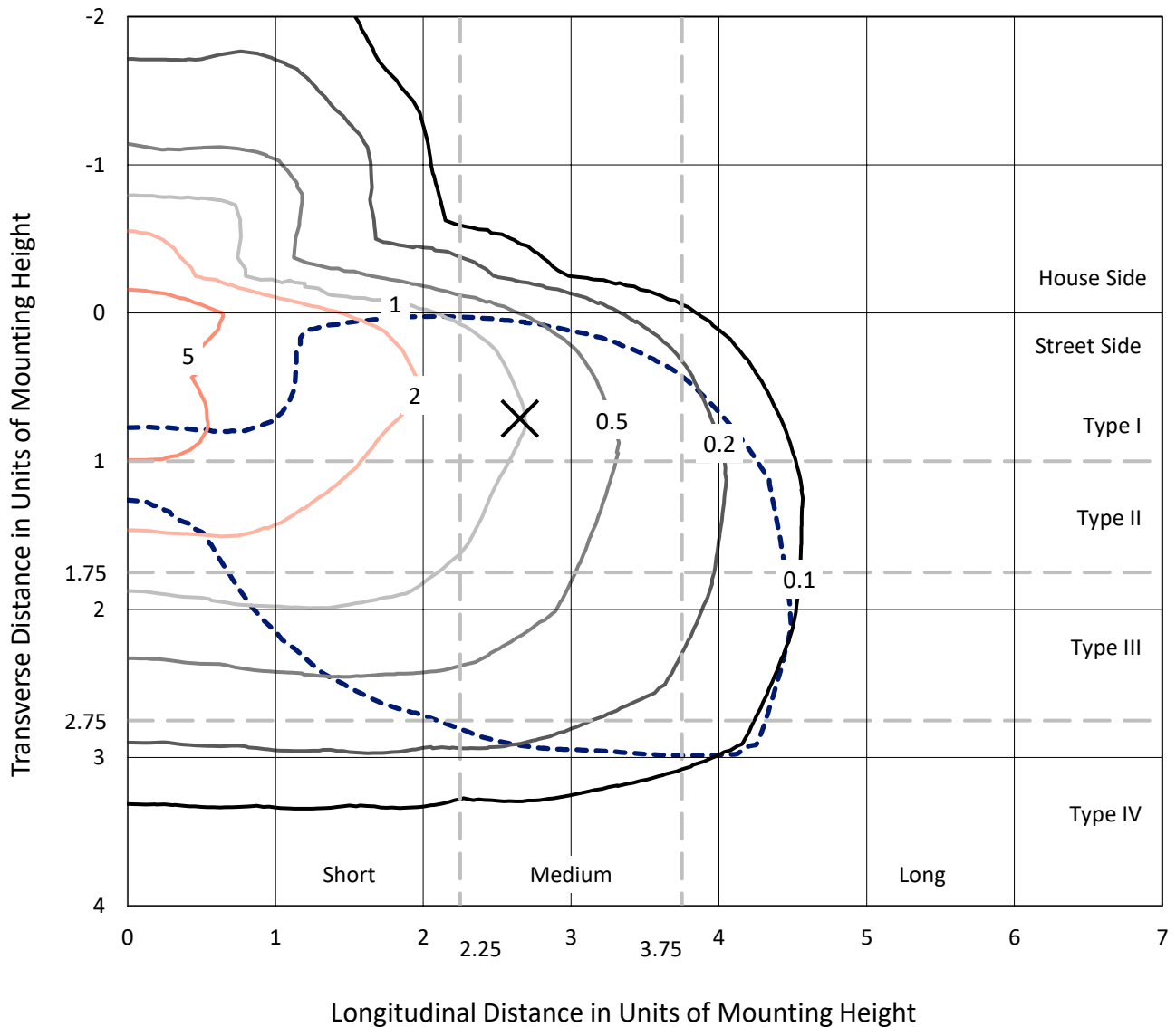
Lumens per Lamp: N/A  
Luminaire Lumens: 9007.1 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

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

REPORT NUMBER: P672307  
 CATALOG NUMBER: CCP-SA-2D-830-U-T3R

### Iso-Footcandle Lines of Horizontal Illumination

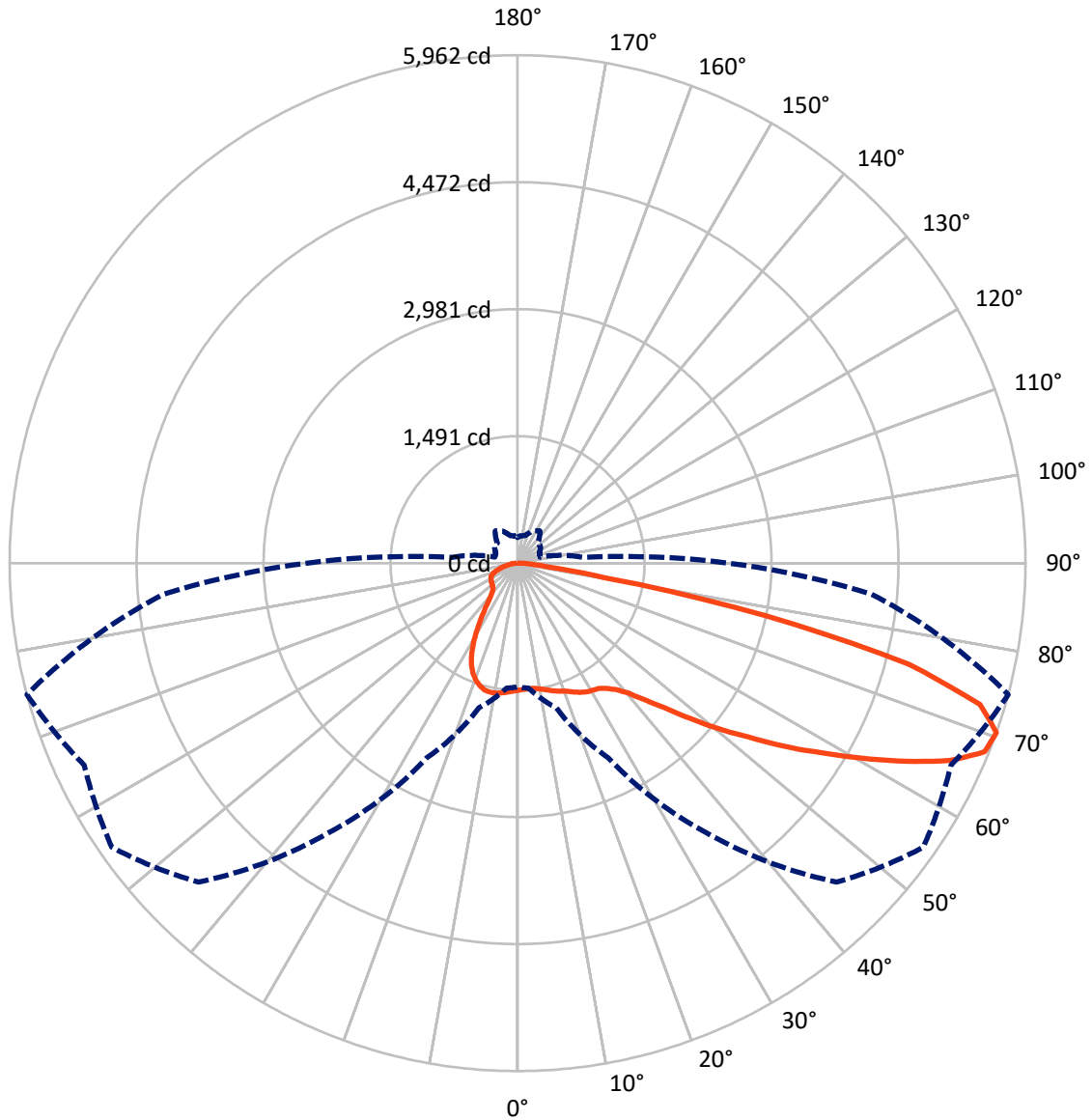
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.8 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P672307  
CATALOG NUMBER: CCP-SA-2D-830-U-T3R

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P672307

CATALOG NUMBER: CCP-SA-2D-830-U-T3R

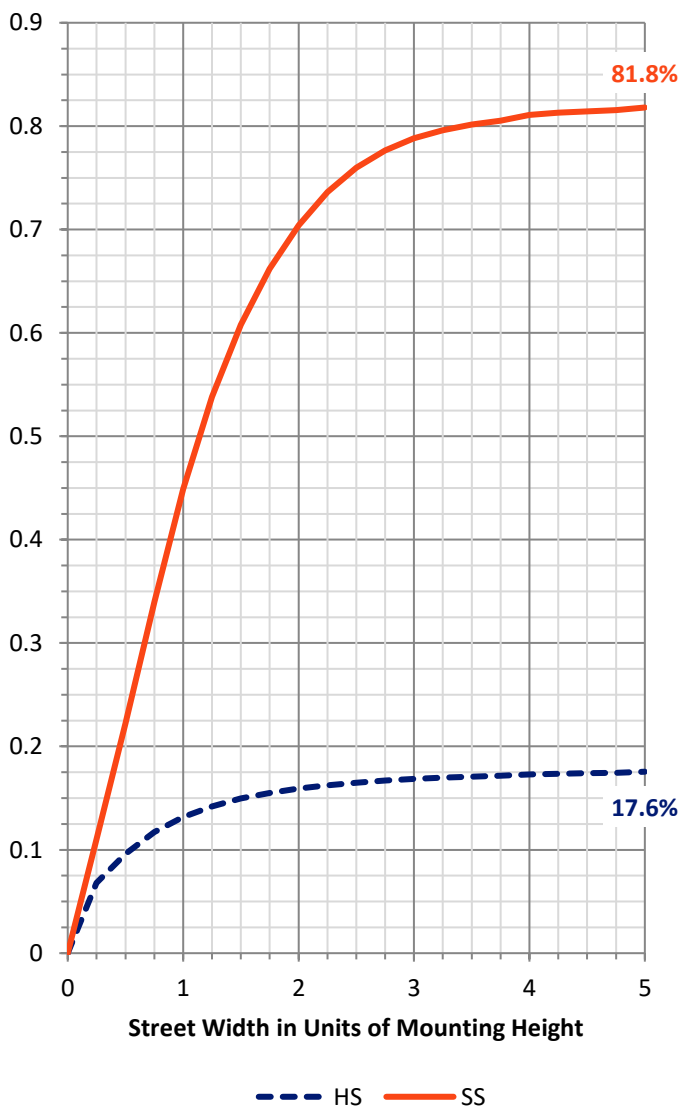
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1602.5	0.0	1602.5
	% Fixture	17.8	0.0	17.8
<b>Street Side</b>	Lumens	7404.6	0.0	7404.6
	% Fixture	82.2	0.0	82.2
<b>Total</b>	Lumens	9007.1	0.0	9007.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.0	1.5
10°-20°	357.7	4.0
20°-30°	602.6	6.7
30°-40°	915.3	10.2
40°-50°	1311.3	14.6
50°-60°	1738.5	19.3
60°-70°	2175.7	24.2
70°-80°	1588.8	17.6
80°-90°	183.2	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°	9007.1	100.0
0°-180°	9007.1	100.0



REPORT NUMBER: P672307

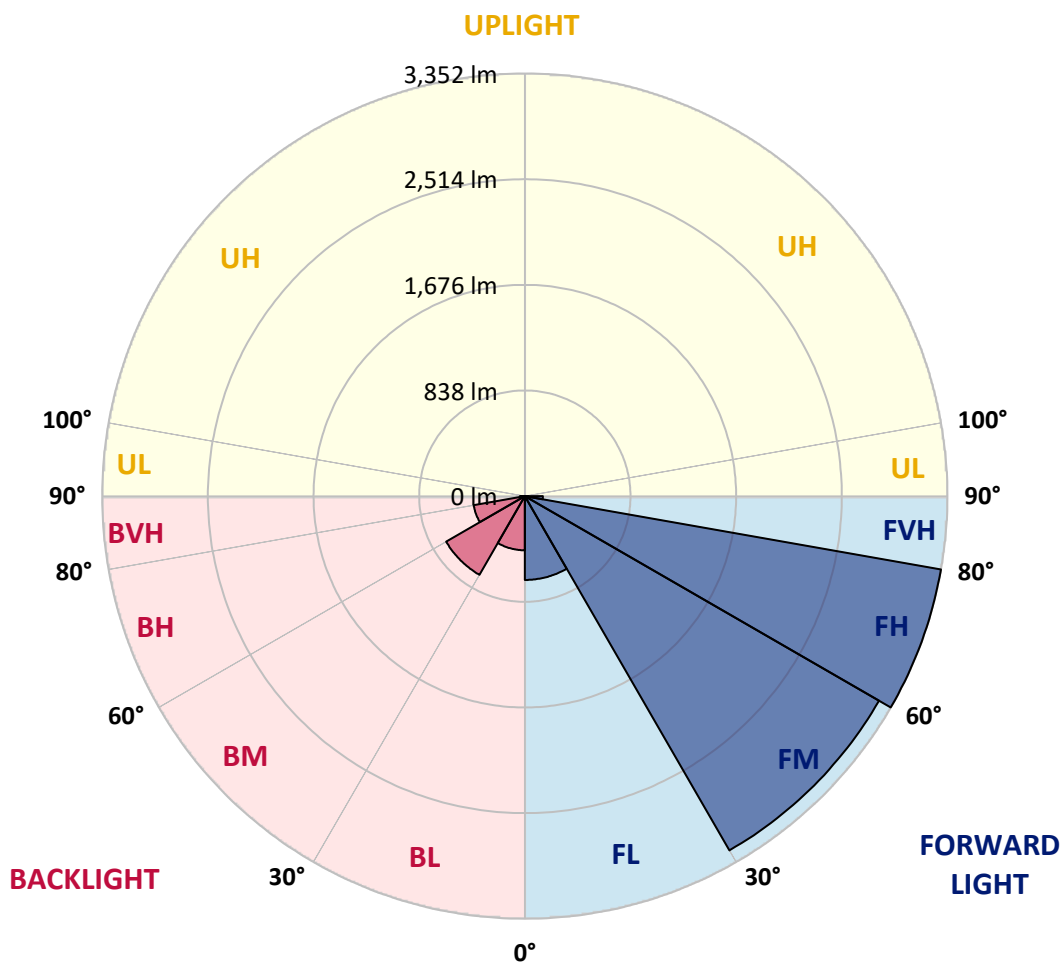
CATALOG NUMBER: CCP-SA-2D-830-U-T3R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	664.8	7.4			
FM (30°-60°)	3244.7	36.0			
FH (60°-80°)	3352.2	37.2			G2/5000
FVH (80°-90°)	143.0	1.6			G2/225
BL (0°-30°)	429.5	4.8	B1/500		
BM (30°-60°)	720.5	8.0	B1/1000		
BH (60°-80°)	412.2	4.6	B1/500		G1/500
BVH (80°-90°)	40.2	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





REPORT NUMBER: P672307

CATALOG NUMBER: CCP-SA-2D-830-U-T3R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1492.0	1492.0	1492.0	1492.0	1492.0	1492.0	1492.0	1492.0	1492.0	1492.0	1492.0
2.5°	1410.3	1418.1	1425.2	1432.4	1438.2	1453.7	1457.0	1473.8	1478.4	1482.3	1487.4
5°	1331.2	1337.1	1344.2	1355.9	1368.2	1396.1	1415.5	1452.4	1473.2	1479.7	1497.8
7.5°	1288.5	1290.4	1300.1	1309.9	1324.1	1351.3	1377.9	1435.6	1477.1	1484.2	1523.1
10°	1257.4	1260.0	1269.0	1282.6	1296.9	1322.2	1355.2	1423.9	1491.3	1502.4	1557.4
12.5°	1246.3	1245.0	1255.4	1264.5	1284.6	1316.3	1350.7	1424.6	1510.8	1526.3	1607.4
15°	1290.4	1282.0	1288.5	1285.2	1291.7	1322.8	1363.7	1438.8	1534.8	1554.2	1659.2
17.5°	1387.6	1380.5	1376.0	1348.1	1330.0	1347.5	1386.3	1458.9	1560.0	1580.8	1705.9
20°	1532.8	1512.7	1495.9	1449.2	1398.7	1392.8	1420.0	1479.0	1584.0	1604.1	1755.1
22.5°	1698.1	1681.9	1654.7	1573.0	1494.6	1455.7	1462.8	1516.0	1619.0	1641.1	1811.5
25°	1906.8	1906.1	1850.4	1740.2	1621.6	1543.2	1528.3	1574.9	1658.6	1679.9	1858.2
27.5°	2144.6	2128.4	2062.3	1920.4	1771.3	1651.4	1616.4	1635.2	1690.3	1712.3	1895.8
30°	2348.2	2350.1	2282.7	2127.8	1930.8	1757.1	1691.0	1678.6	1711.1	1733.1	1930.8
32.5°	2565.9	2554.9	2493.3	2333.9	2103.2	1870.5	1738.9	1709.8	1732.4	1753.2	1979.4
35°	2770.7	2758.4	2705.3	2533.5	2293.1	1995.6	1803.7	1758.4	1783.0	1805.7	2039.0
37.5°	2965.8	2967.8	2907.5	2743.5	2477.1	2143.4	1899.7	1831.6	1858.2	1883.5	2129.7
40°	3136.3	3126.6	3079.9	2932.1	2668.3	2293.7	2007.9	1931.4	1983.3	2006.6	2244.5
42.5°	3190.7	3190.1	3208.2	3117.5	2869.3	2472.6	2142.7	2087.0	2160.2	2195.2	2385.1
45°	3143.4	3157.7	3262.7	3260.1	3070.2	2678.1	2326.8	2276.2	2381.9	2421.4	2556.9
47.5°	3096.7	3118.1	3260.7	3341.7	3250.3	2904.3	2553.0	2515.4	2667.0	2724.1	2735.1
50°	3028.7	3048.8	3218.6	3353.4	3360.5	3133.0	2845.9	2798.6	2993.7	3052.0	2928.9
52.5°	2952.9	2968.4	3144.1	3345.0	3413.0	3311.9	3133.0	3119.4	3343.7	3391.0	3125.9
55°	2534.2	2600.3	3034.5	3326.8	3449.3	3448.7	3412.4	3457.1	3725.4	3796.1	3345.6
57.5°	2293.7	2328.7	2726.0	3316.5	3517.4	3575.1	3700.8	3796.7	4133.1	4196.6	3588.0
60°	2215.3	2246.4	2571.1	3304.1	3652.8	3772.7	3982.7	4138.3	4571.2	4649.0	3858.9
62.5°	2144.0	2181.6	2508.2	3206.3	3816.8	4085.8	4319.1	4507.7	5033.3	5125.4	4128.6
65°	1998.8	2025.4	2392.9	3124.0	3972.4	4532.3	4804.6	4914.7	5481.2	5584.9	4307.4
67.5°	1748.0	1773.3	2133.0	2934.7	4073.5	4997.0	5335.4	5336.0	5827.3	5912.2	4345.0
70°	1453.1	1472.5	1758.4	2522.5	3862.8	5295.2	5814.3	5611.5	5925.2	5962.1	4166.2
72.5°	1038.9	1055.8	1287.8	1864.7	3167.4	5053.4	5923.2	5599.8	5687.9	5676.3	3657.4
75°	640.3	672.8	788.8	1138.1	1968.4	3976.2	5330.8	5074.2	4776.0	4743.6	2753.9
77.5°	417.4	434.2	533.4	671.5	868.5	2282.7	4048.8	3804.5	3015.7	2978.1	1480.3
80°	250.8	278.7	349.3	421.9	393.4	873.0	2311.9	1889.9	1065.5	1053.9	455.0
82.5°	134.8	160.1	246.3	261.2	221.0	308.5	837.4	614.4	340.9	337.0	170.5
85°	106.9	119.3	176.9	165.3	125.1	156.2	326.7	256.0	175.0	171.1	64.2
87.5°	64.8	81.7	134.2	111.5	62.2	56.4	149.7	121.2	82.3	76.5	25.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P672307  
 CATALOG NUMBER: CCP-SA-2D-830-U-T3R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1492.0	1492.0	1492.0	1492.0	1492.0	1492.0	1492.0	1492.0	1492.0	1492.0	1492.0
2.5°	1497.2	1500.4	1503.7	1497.2	1499.8	1496.5	1496.5	1496.5	1488.1	1485.5	1493.3
5°	1511.4	1516.0	1518.6	1498.5	1486.2	1468.0	1453.1	1430.4	1417.5	1409.0	1409.0
7.5°	1540.6	1545.8	1534.1	1489.4	1446.0	1397.4	1347.5	1306.0	1276.2	1263.2	1267.1
10°	1583.4	1585.3	1546.4	1464.1	1371.4	1281.3	1210.7	1155.6	1118.7	1099.9	1097.3
12.5°	1633.3	1624.9	1549.0	1408.4	1271.0	1149.8	1063.6	992.3	945.0	926.8	917.7
15°	1682.5	1662.4	1539.3	1341.6	1156.9	1011.1	900.9	833.5	804.3	795.9	792.7
17.5°	1726.6	1689.0	1506.9	1245.7	1024.7	849.0	768.0	744.0	747.3	755.1	758.3
20°	1766.8	1709.1	1460.2	1131.6	859.4	722.7	702.6	724.6	742.8	754.4	756.4
22.5°	1810.9	1728.6	1395.4	992.9	724.0	664.3	688.3	713.6	731.7	743.4	745.3
25°	1844.6	1727.9	1304.0	828.3	638.4	648.8	677.3	700.0	713.6	722.0	721.4
27.5°	1866.0	1712.3	1184.1	692.8	604.7	637.8	665.0	679.9	687.7	694.1	693.5
30°	1872.4	1682.5	1033.1	593.0	589.1	627.4	648.1	657.2	663.0	669.5	669.5
32.5°	1885.4	1636.5	866.5	537.3	577.5	617.0	629.3	636.5	631.9	615.7	612.5
35°	1899.7	1585.3	709.0	511.4	566.5	609.9	621.6	602.8	553.5	547.0	544.4
37.5°	1927.5	1538.0	575.5	493.2	563.9	613.8	623.5	548.3	506.8	486.7	483.5
40°	1974.8	1490.7	486.1	480.3	567.1	630.6	597.6	522.4	453.7	415.4	409.0
42.5°	2037.1	1433.0	435.5	473.8	576.2	657.8	588.5	485.4	410.3	384.3	380.4
45°	2109.0	1356.5	411.6	472.5	587.2	671.5	591.1	455.6	390.8	370.7	369.4
47.5°	2183.5	1281.3	401.2	471.2	600.8	665.6	555.4	446.6	383.0	377.2	381.1
50°	2263.9	1195.8	392.8	467.9	611.8	665.6	536.0	444.6	385.6	398.6	411.6
52.5°	2339.1	1123.8	383.0	458.2	616.4	654.0	530.2	451.7	389.5	386.3	390.2
55°	2430.5	1086.9	377.9	444.6	607.9	618.3	523.0	471.2	392.8	366.2	366.2
57.5°	2534.8	1079.1	370.1	426.5	580.7	569.1	522.4	482.9	384.3	359.7	355.2
60°	2660.6	1096.0	360.4	403.8	547.7	530.8	517.9	482.9	370.7	348.7	350.6
62.5°	2762.3	1094.0	354.5	383.7	503.6	491.3	509.4	476.4	365.5	347.4	346.7
65°	2786.3	1052.6	337.7	357.8	449.2	443.3	500.4	460.2	358.4	340.3	335.1
67.5°	2705.3	958.6	312.4	323.4	391.5	392.1	484.1	438.8	348.7	336.4	328.0
70°	2475.2	775.2	274.8	281.9	329.2	337.7	460.2	413.5	332.5	319.5	299.4
72.5°	2071.4	557.4	231.4	233.3	261.8	283.9	418.7	379.2	308.5	278.0	256.7
75°	1533.5	370.1	188.6	186.0	196.4	230.7	357.8	340.9	277.4	230.7	219.7
77.5°	810.8	219.1	145.2	145.8	139.3	176.9	283.9	296.2	246.3	194.4	183.4
80°	277.4	131.6	104.3	108.9	98.5	126.4	210.6	246.3	210.6	162.0	143.2
82.5°	127.0	80.4	74.5	77.8	70.6	85.6	144.5	186.7	167.9	118.0	95.3
85°	64.2	48.0	48.0	52.5	46.7	44.1	79.7	123.8	123.1	81.0	70.0
87.5°	26.6	23.3	22.0	25.3	22.0	16.9	22.7	44.7	64.8	48.6	31.1
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)