

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: P472151

Luminaire Tested: **CCP-VA-5-730-U-T4W**

Issue Date: 01/27/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P472151  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-VA-5-730-U-T4W  
Description: INVUE CLEARCURVE POLE MOUNT Wave Stream LUMINAIRE WITH T4W  
DISTRIBUTION LENS  
Light Source: 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

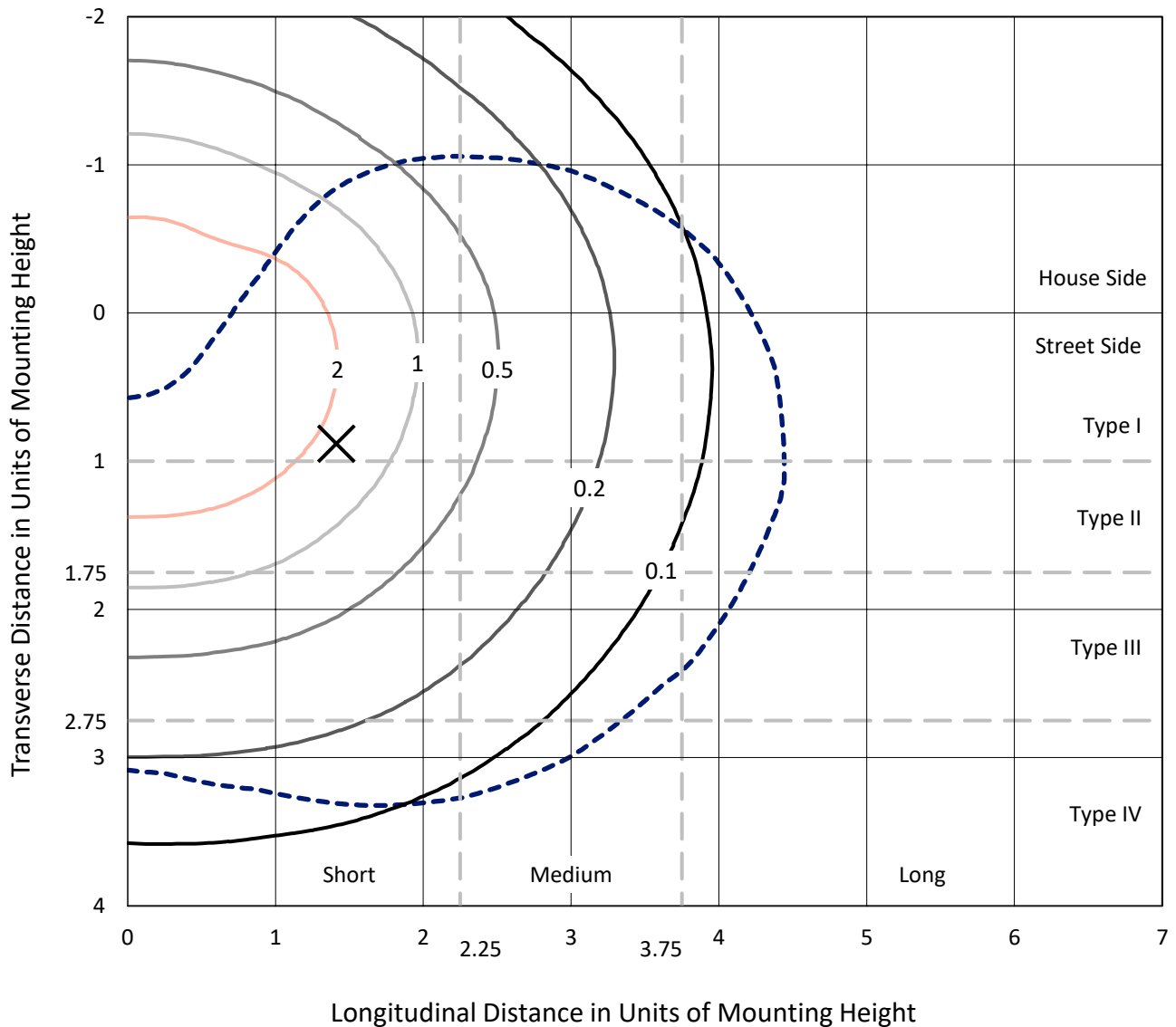
Lumens per Lamp: N/A  
Luminaire Lumens: 7718.7 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 74.3  
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

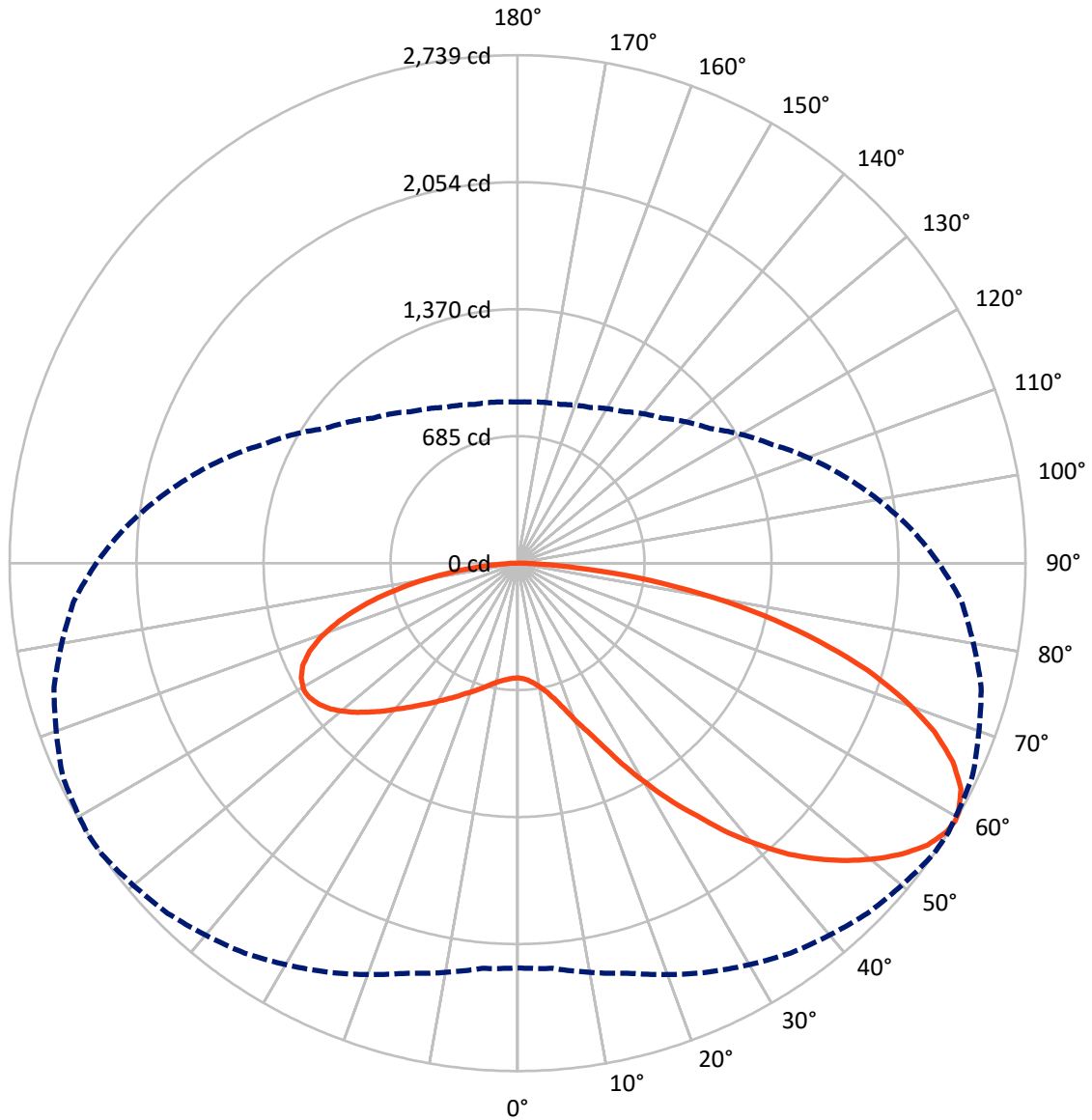
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 59-Deg Vertical

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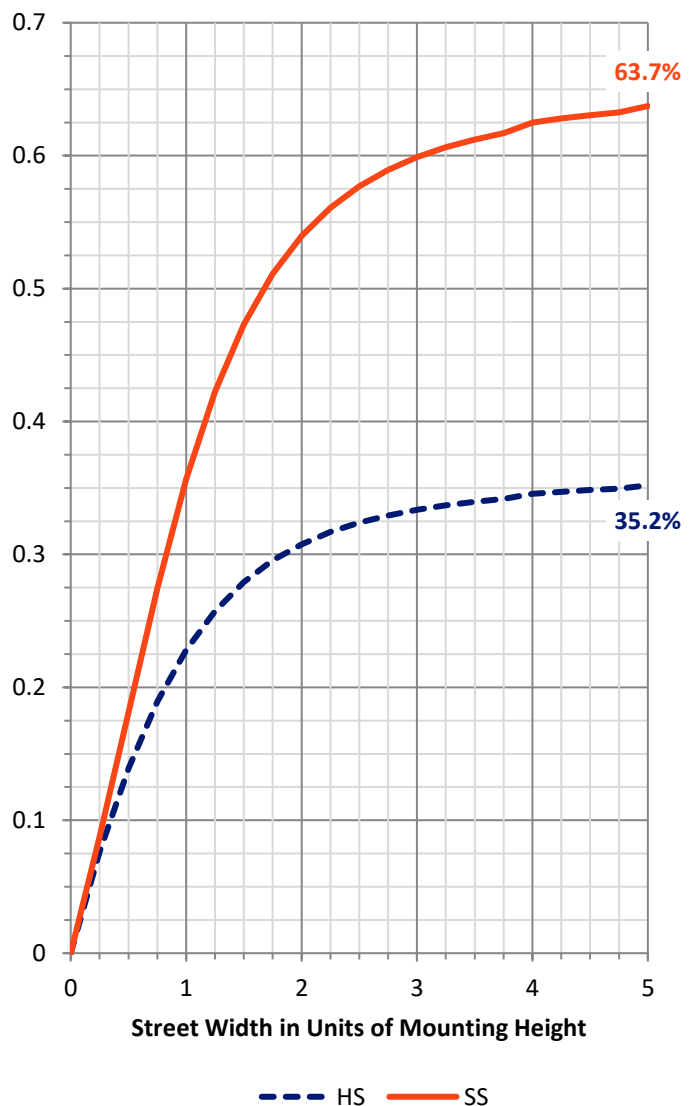
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2752.8	0.0	2752.8
	% Fixture	35.7	0.0	35.7
<b>Street Side</b>	Lumens	4965.9	0.0	4965.9
	% Fixture	64.3	0.0	64.3
<b>Total</b>	Lumens	7718.7	0.0	7718.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.4	0.8
10°-20°	209.4	2.7
20°-30°	441.9	5.7
30°-40°	813.3	10.5
40°-50°	1267.6	16.4
50°-60°	1665.7	21.6
60°-70°	1745.4	22.6
70°-80°	1210.1	15.7
80°-90°	303.9	3.9
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°	7718.7	100.0
0°-180°	7718.7	100.0



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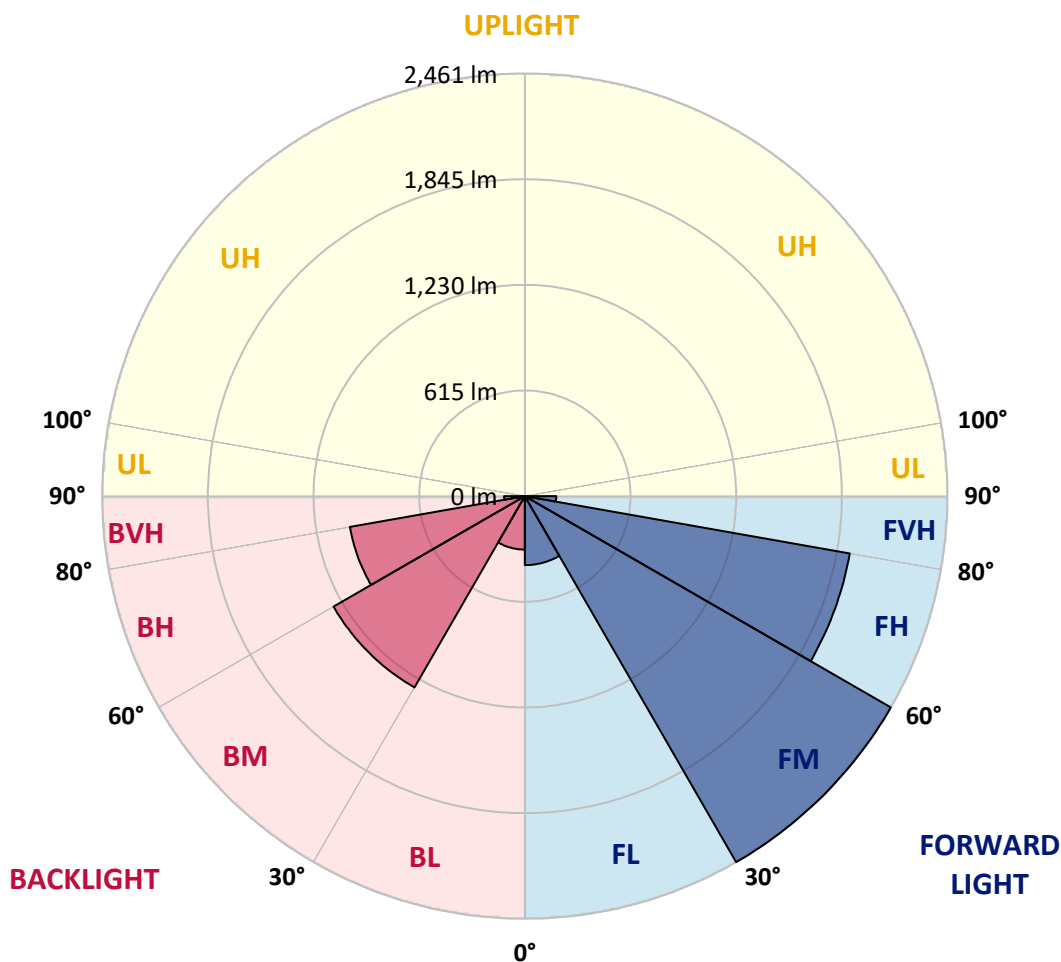
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	401.5	5.2			
FM (30°-60°)	2460.6	31.9			
FH (60°-80°)	1921.2	24.9			G2/5000
FVH (80°-90°)	182.6	2.4			G2/225
BL (0°-30°)	311.1	4.0	B1/500		
BM (30°-60°)	1286.1	16.7	B2/2500		
BH (60°-80°)	1034.3	13.4	B3/2500		G3/2500
BVH (80°-90°)	121.3	1.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8
2.5°	627.5	627.5	627.5	625.7	625.7	625.7	624.0	624.0	624.0	622.2	620.5
5°	641.4	641.4	639.6	641.4	639.6	637.9	636.2	636.2	636.2	634.4	632.7
7.5°	660.5	662.2	660.5	662.2	660.5	658.7	655.3	655.3	653.5	650.1	646.6
10°	690.0	690.0	690.0	688.3	686.6	684.8	683.1	681.3	679.6	674.4	669.2
12.5°	726.5	726.5	726.5	723.1	723.1	719.6	717.8	716.1	712.6	705.7	698.7
15°	771.7	770.0	775.2	775.2	773.5	773.5	768.2	764.8	761.3	750.9	735.2
17.5°	832.6	830.8	836.0	839.5	839.5	841.2	832.6	829.1	816.9	803.0	782.2
20°	914.3	910.8	916.0	919.5	916.0	919.5	910.8	912.5	895.1	870.8	837.8
22.5°	1002.9	1002.9	1008.1	1008.1	1009.8	1013.3	1002.9	997.7	983.8	949.0	907.3
25°	1112.4	1121.1	1121.1	1121.1	1128.0	1129.8	1119.3	1110.7	1091.5	1044.6	987.3
27.5°	1246.2	1244.5	1242.8	1253.2	1253.2	1256.7	1249.7	1246.2	1223.6	1166.3	1079.4
30°	1388.8	1378.3	1385.3	1388.8	1395.7	1400.9	1394.0	1383.5	1355.7	1293.2	1185.4
32.5°	1519.1	1526.1	1536.5	1540.0	1550.4	1552.1	1534.8	1534.8	1506.9	1427.0	1315.8
35°	1666.9	1666.9	1694.7	1706.8	1706.8	1717.3	1691.2	1677.3	1658.2	1574.7	1433.9
37.5°	1795.5	1799.0	1821.5	1849.4	1852.8	1868.5	1849.4	1844.1	1809.4	1724.2	1567.8
40°	1915.4	1918.9	1946.7	1979.7	1998.8	2023.2	2004.1	1995.4	1958.9	1861.5	1701.6
42.5°	2009.3	2016.2	2051.0	2099.6	2130.9	2160.5	2151.8	2146.6	2096.2	1993.6	1825.0
45°	2080.5	2092.7	2141.4	2198.7	2242.2	2285.6	2287.4	2276.9	2230.0	2115.3	1945.0
47.5°	2137.9	2151.8	2205.7	2278.7	2344.7	2398.6	2409.0	2396.9	2353.4	2233.5	2052.7
50°	2184.8	2191.8	2252.6	2346.5	2428.2	2495.9	2516.8	2506.4	2468.1	2332.6	2146.6
52.5°	2209.1	2219.6	2289.1	2396.9	2495.9	2577.6	2608.9	2603.7	2558.5	2422.9	2230.0
55°	2221.3	2231.7	2313.4	2436.8	2548.1	2643.7	2681.9	2683.7	2640.2	2504.6	2308.2
57.5°	2207.4	2221.3	2310.0	2447.3	2570.7	2673.2	2732.3	2730.6	2695.8	2567.2	2374.3
59°	2183.1	2193.5	2289.1	2433.4	2567.2	2669.8	2737.5	2739.3	2708.0	2588.1	2403.8
60°	2155.3	2167.4	2264.8	2416.0	2553.3	2657.6	2728.8	2732.3	2706.3	2593.3	2416.0
62.5°	2059.7	2075.3	2183.1	2344.7	2494.2	2593.3	2678.4	2683.7	2669.8	2579.4	2424.7
65°	1925.8	1939.7	2056.2	2228.3	2384.7	2487.2	2567.2	2579.4	2577.6	2516.8	2389.9
67.5°	1762.5	1764.2	1873.7	2061.4	2224.8	2325.6	2402.1	2422.9	2438.6	2398.6	2287.4
70°	1566.0	1564.3	1670.3	1856.3	2019.7	2125.7	2202.2	2216.1	2256.1	2224.8	2134.4
72.5°	1322.7	1343.6	1442.6	1599.1	1760.7	1878.9	1946.7	1972.8	1995.4	2002.3	1927.6
75°	1093.3	1115.9	1194.1	1340.1	1479.1	1588.6	1661.6	1673.8	1715.5	1726.0	1656.4
77.5°	874.3	876.0	933.4	1049.8	1176.7	1267.1	1326.2	1357.5	1380.1	1400.9	1327.9
80°	613.6	622.2	662.2	745.7	844.7	940.3	989.0	1009.8	1025.5	1039.4	1015.1
82.5°	384.1	387.6	413.7	464.1	531.9	585.7	636.2	653.5	657.0	688.3	684.8
85°	182.5	184.2	201.6	226.0	255.5	299.0	318.1	318.1	342.4	365.0	365.0
87.5°	24.3	24.3	29.5	33.0	41.7	53.9	74.7	76.5	90.4	100.8	109.5
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°	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8
2.5°	620.5	620.5	620.5	620.5	620.5	618.8	620.5	620.5	620.5	620.5	620.5
5°	632.7	630.9	629.2	627.5	627.5	625.7	625.7	625.7	625.7	625.7	625.7
7.5°	644.8	643.1	641.4	637.9	636.2	634.4	634.4	632.7	632.7	632.7	632.7
10°	665.7	664.0	657.0	651.8	648.3	646.6	644.8	643.1	641.4	641.4	641.4
12.5°	693.5	690.0	677.9	670.9	665.7	662.2	658.7	657.0	655.3	653.5	653.5
15°	728.3	719.6	703.9	693.5	686.6	681.3	676.1	672.7	670.9	669.2	669.2
17.5°	770.0	759.6	738.7	719.6	707.4	698.7	691.8	686.6	684.8	684.8	684.8
20°	822.1	804.7	775.2	749.1	730.0	717.8	707.4	702.2	700.5	698.7	697.0
22.5°	883.0	860.4	816.9	776.9	752.6	735.2	723.1	716.1	710.9	709.2	709.2
25°	952.5	919.5	862.1	813.4	780.4	756.1	740.4	731.7	723.1	719.6	719.6
27.5°	1035.9	992.5	916.0	851.7	806.5	776.9	759.6	747.4	738.7	731.7	728.3
30°	1126.3	1077.6	975.1	893.4	836.0	803.0	782.2	768.2	756.1	743.9	742.2
32.5°	1241.0	1171.5	1046.3	940.3	870.8	829.1	804.7	787.4	771.7	759.6	756.1
35°	1357.5	1274.0	1121.1	989.0	903.8	853.4	823.9	804.7	789.1	775.2	773.5
37.5°	1477.4	1388.8	1202.8	1046.3	942.1	881.2	844.7	823.9	804.7	790.8	789.1
40°	1602.5	1498.3	1286.2	1105.4	982.0	909.0	867.3	841.2	820.4	808.2	806.5
42.5°	1720.7	1607.8	1376.6	1175.0	1029.0	938.6	889.9	862.1	836.0	823.9	822.1
45°	1833.7	1712.0	1467.0	1239.3	1075.9	969.9	912.5	879.5	851.7	839.5	837.8
47.5°	1936.3	1814.6	1550.4	1308.8	1124.6	1004.6	936.8	896.9	865.6	853.4	853.4
50°	2028.4	1901.5	1632.1	1373.1	1169.8	1039.4	957.7	912.5	881.2	869.1	867.3
52.5°	2115.3	1978.0	1703.4	1428.7	1213.2	1070.7	978.6	924.7	891.7	877.7	876.0
55°	2184.8	2047.5	1762.5	1473.9	1242.8	1091.5	992.5	931.6	895.1	883.0	881.2
57.5°	2245.6	2104.9	1804.2	1505.2	1261.9	1103.7	999.4	931.6	893.4	879.5	877.7
59°	2271.7	2129.2	1818.1	1513.9	1265.4	1105.4	997.7	926.4	886.4	872.5	869.1
60°	2285.6	2139.6	1823.3	1515.6	1263.6	1102.0	995.9	921.2	879.5	863.8	863.8
62.5°	2299.5	2148.3	1816.3	1501.7	1244.5	1082.8	978.6	900.3	853.4	836.0	836.0
65°	2270.0	2117.0	1776.4	1463.5	1206.3	1049.8	945.5	865.6	813.4	796.1	796.1
67.5°	2183.1	2040.6	1703.4	1392.2	1143.7	992.5	891.7	810.0	761.3	742.2	737.0
70°	2035.3	1915.4	1588.6	1289.7	1058.5	919.5	823.9	745.7	695.2	676.1	669.2
72.5°	1837.2	1719.0	1435.7	1164.5	945.5	823.9	740.4	665.7	610.1	591.0	592.7
75°	1564.3	1480.9	1237.5	1006.4	815.2	702.2	632.7	570.1	523.2	507.5	509.3
77.5°	1268.8	1199.3	1002.9	820.4	665.7	578.8	519.7	469.3	438.0	429.3	424.1
80°	971.6	903.8	752.6	611.8	505.8	445.0	405.0	370.2	345.9	333.7	337.2
82.5°	651.8	610.1	498.8	405.0	344.1	300.7	286.8	264.2	255.5	248.6	253.8
85°	351.1	314.6	260.7	217.3	189.5	177.3	180.8	179.0	172.1	170.3	175.5
87.5°	114.7	99.1	76.5	64.3	66.0	59.1	59.1	55.6	50.4	48.7	52.1
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)