

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: P472268

Luminaire Tested: **CCW-VA-4-730-U-T4FT**

Issue Date: 01/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P472268  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-VA-4-730-U-T4FT  
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4FT DISTRIBUTION LENS  
Light Source: 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6256.7 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

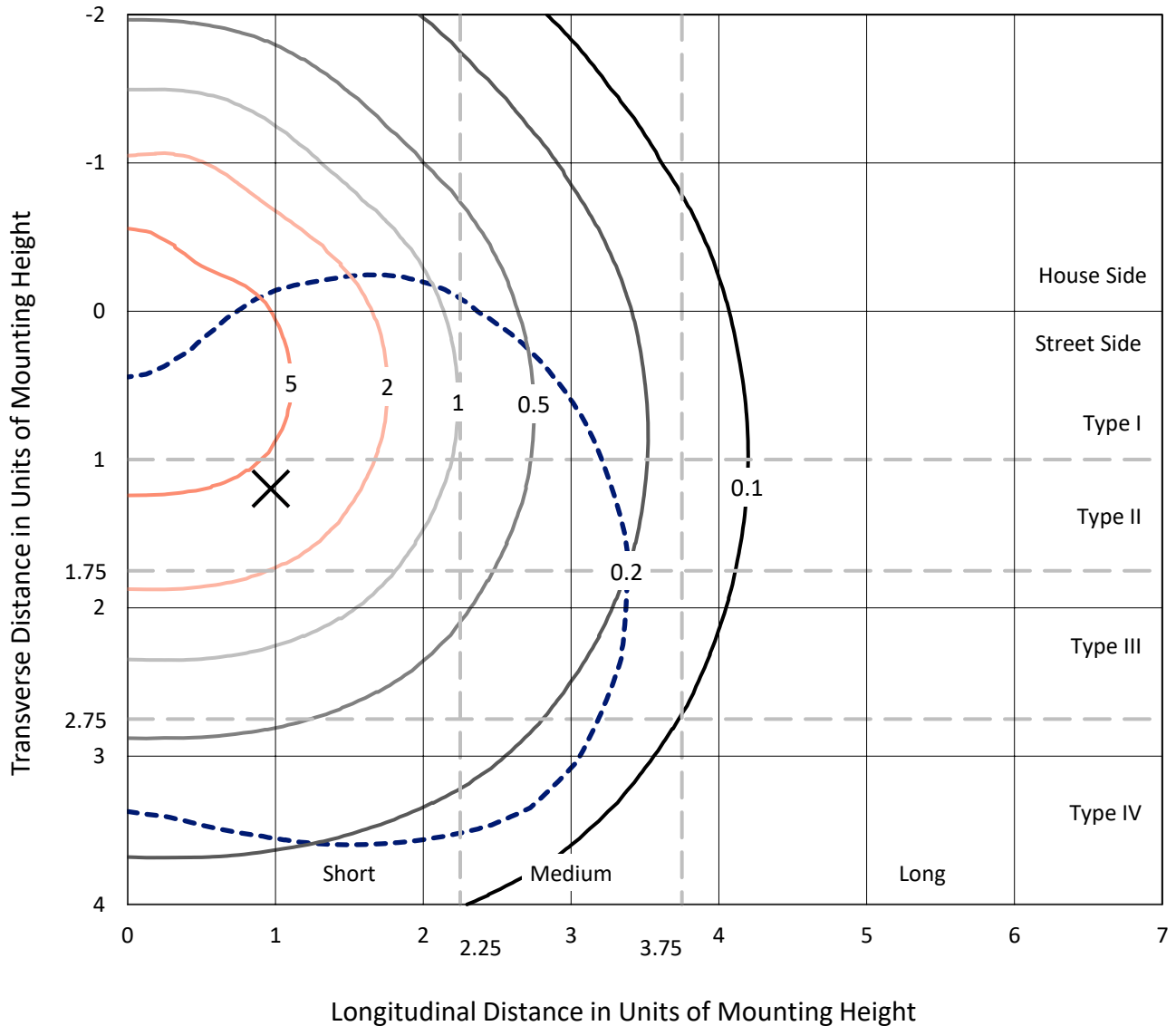
Input Watts (W): 64.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P472268  
 CATALOG NUMBER: CCW-VA-4-730-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

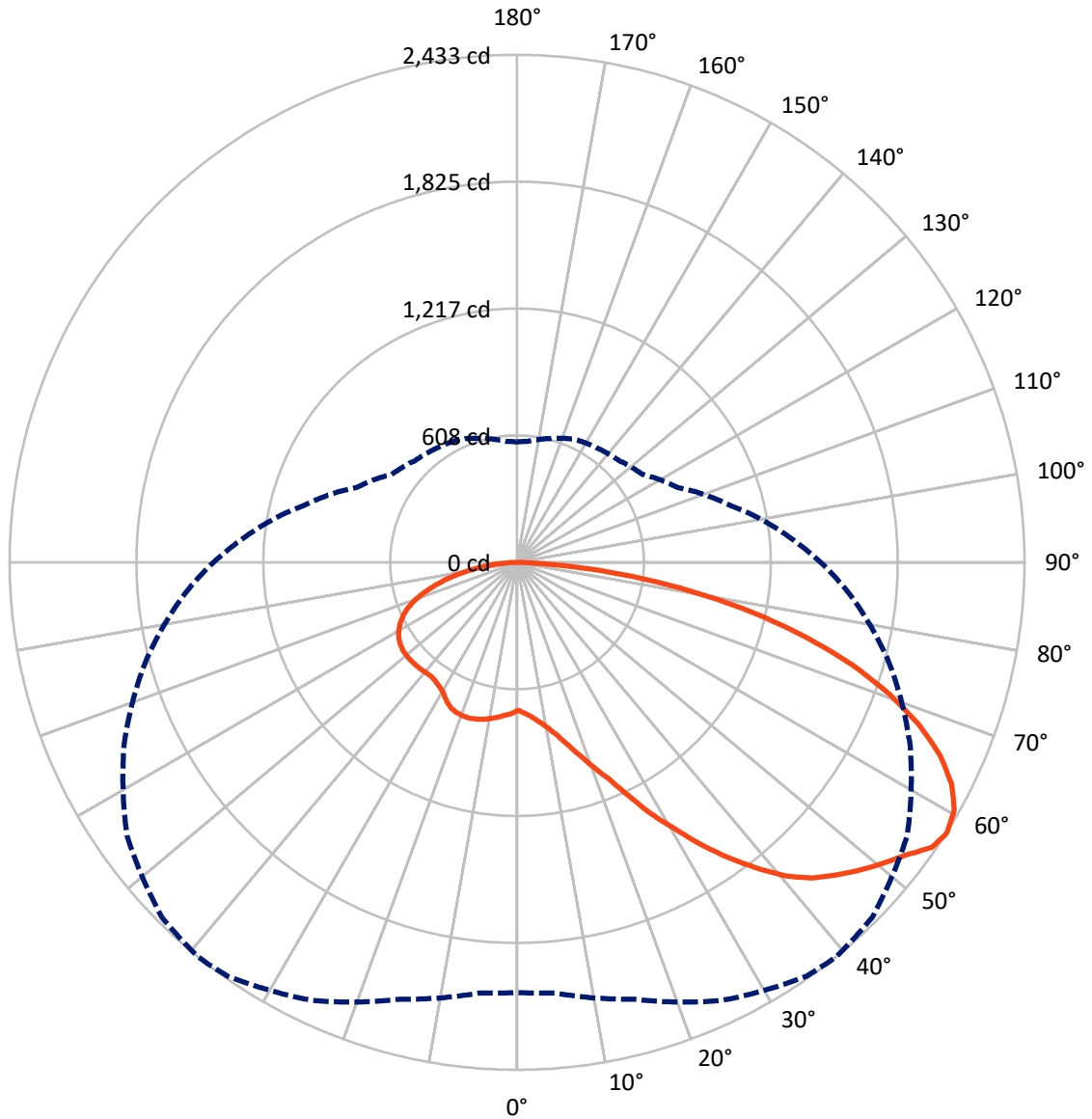
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P472268  
CATALOG NUMBER: CCW-VA-4-730-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P472268  
 CATALOG NUMBER: CCW-VA-4-730-U-T4FT

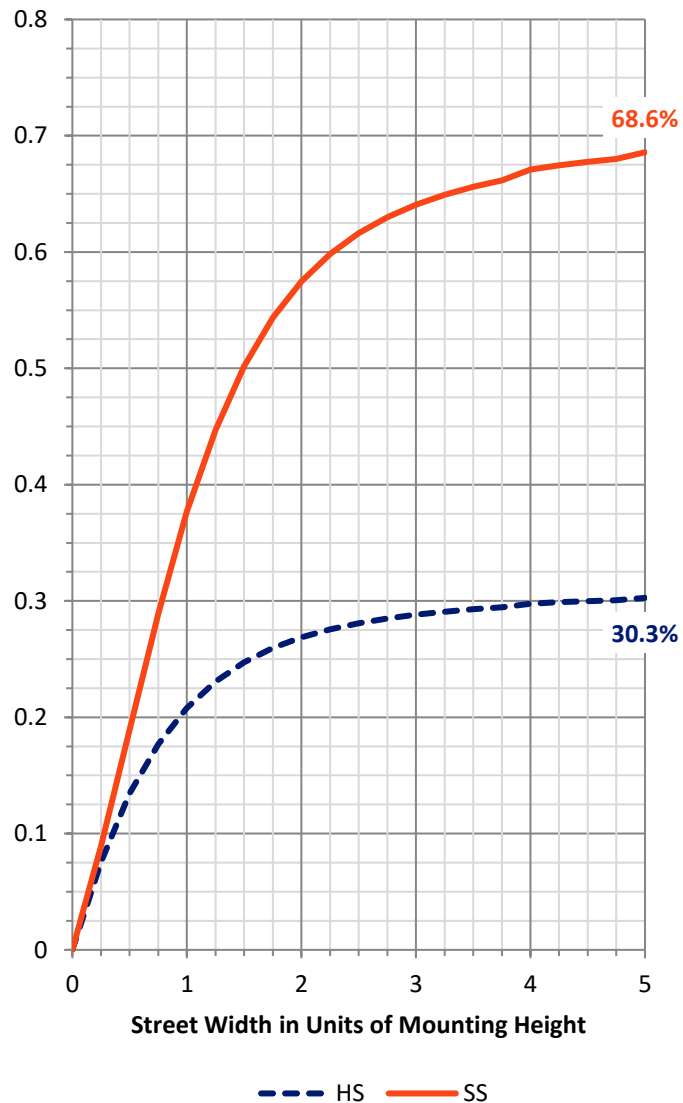
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1919.8	0.0	1919.8
	% Fixture	30.7	0.0	30.7
<b>Street Side</b>	Lumens	4336.9	0.0	4336.9
	% Fixture	69.3	0.0	69.3
<b>Total</b>	Lumens	6256.7	0.0	6256.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.8	1.1
10°-20°	239.6	3.8
20°-30°	462.8	7.4
30°-40°	748.6	12.0
40°-50°	1051.7	16.8
50°-60°	1299.2	20.8
60°-70°	1291.3	20.6
70°-80°	873.7	14.0
80°-90°	218.1	3.5
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°	6256.7	100.0
0°-180°	6256.7	100.0

**Coefficient of Utilization**

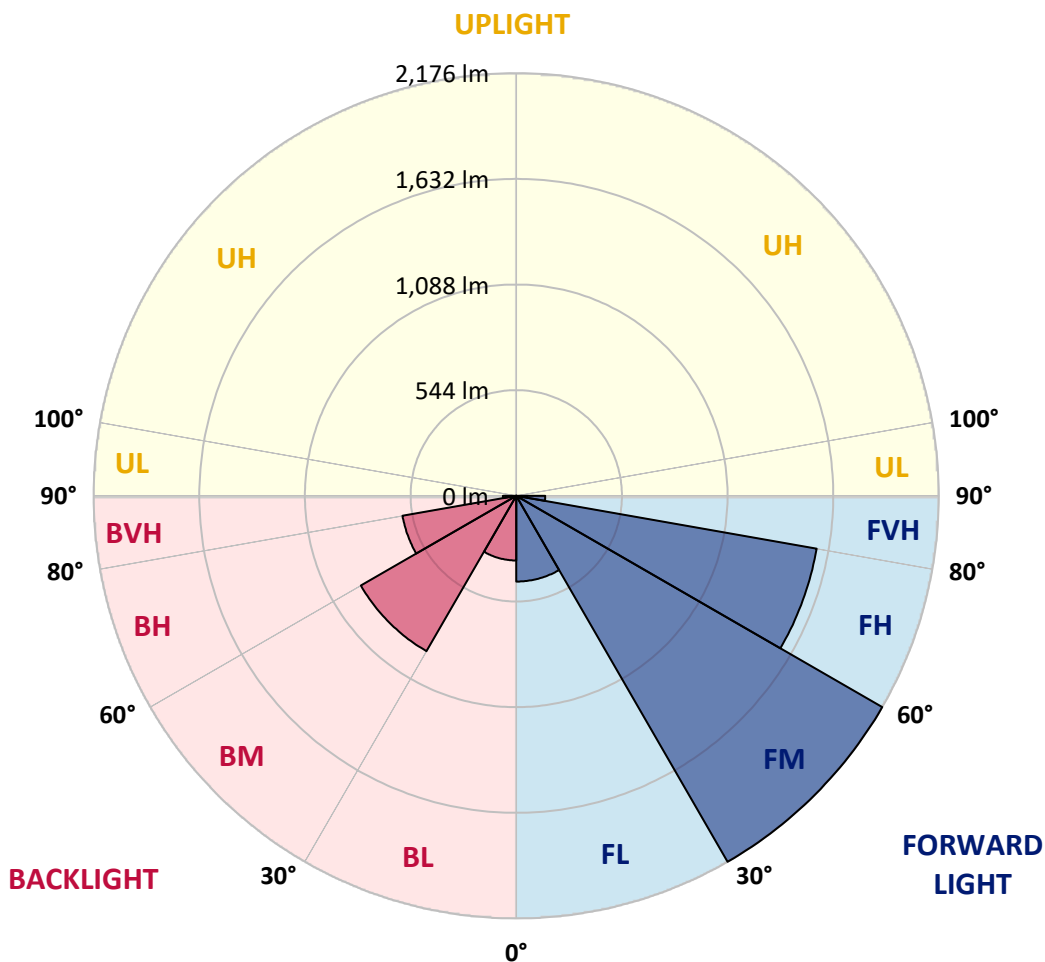


REPORT NUMBER: P472268  
 CATALOG NUMBER: CCW-VA-4-730-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.5	7.1			
FM (30°-60°)	2175.8	34.8			
FH (60°-80°)	1570.5	25.1			G1/1800
FVH (80°-90°)	149.2	2.4			G2/225
BL (0°-30°)	332.7	5.3	B1/500		
BM (30°-60°)	923.7	14.8	B1/1000		
BH (60°-80°)	594.5	9.5	B2/1000		G2/1000
BVH (80°-90°)	68.8	1.1			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 Short





REPORT NUMBER: P472268

CATALOG NUMBER: CCW-VA-4-730-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5
2.5°	730.6	729.6	728.7	728.7	726.7	724.8	723.9	721.9	722.9	724.8	725.8
5°	751.7	749.7	749.7	747.8	745.0	745.0	742.1	738.2	737.3	736.3	736.3
7.5°	784.3	781.4	782.3	779.5	776.6	772.8	768.0	763.2	761.3	754.5	748.8
10°	821.7	820.7	817.8	813.0	810.1	806.3	801.5	792.9	786.2	778.5	773.7
12.5°	865.8	863.8	864.8	861.0	856.2	849.5	841.8	833.2	820.7	806.3	796.7
15°	923.3	919.4	919.4	918.5	908.9	907.0	899.3	880.1	862.9	843.7	821.7
17.5°	993.3	992.3	988.5	984.6	978.9	972.2	964.5	943.4	917.5	887.8	858.1
20°	1068.1	1066.1	1069.0	1063.3	1051.8	1048.9	1036.4	1012.4	980.8	946.3	901.2
22.5°	1149.5	1151.5	1151.5	1149.5	1140.0	1128.5	1117.9	1086.3	1049.8	1007.7	954.9
25°	1248.3	1249.3	1255.0	1260.8	1255.0	1236.8	1222.4	1173.5	1124.6	1070.9	1008.6
27.5°	1359.5	1352.8	1369.1	1379.6	1369.1	1364.3	1332.7	1279.0	1211.9	1144.8	1067.1
30°	1466.9	1466.9	1480.3	1495.7	1488.9	1477.4	1451.6	1382.5	1305.8	1220.5	1126.5
32.5°	1566.6	1578.1	1583.9	1619.3	1615.5	1609.7	1580.0	1488.9	1393.1	1296.2	1184.1
35°	1684.5	1680.7	1704.7	1726.7	1744.0	1736.3	1714.3	1622.2	1496.6	1375.8	1247.3
37.5°	1773.7	1781.4	1802.5	1841.8	1854.2	1858.1	1830.3	1735.3	1592.5	1461.1	1317.3
40°	1841.8	1847.5	1887.8	1937.6	1963.5	1977.0	1949.1	1834.1	1682.6	1529.2	1372.0
42.5°	1896.4	1900.3	1942.4	2013.4	2056.5	2069.9	2045.0	1923.3	1759.3	1583.9	1417.0
45°	1932.8	1939.6	1989.4	2062.3	2129.4	2139.0	2126.5	2001.9	1827.4	1635.6	1449.6
47.5°	1964.5	1972.2	2027.8	2119.8	2194.6	2207.1	2195.5	2070.9	1892.6	1682.6	1477.4
50°	2006.7	2015.3	2070.9	2173.5	2255.9	2270.3	2266.5	2143.8	1953.9	1735.3	1506.2
52.5°	2046.9	2053.7	2119.8	2233.9	2323.1	2332.6	2329.8	2211.8	2016.3	1791.9	1542.6
55°	2078.6	2086.2	2164.9	2305.8	2401.7	2412.2	2392.1	2264.6	2065.2	1833.1	1577.2
57°	2062.3	2072.8	2168.7	2318.3	2421.8	2433.3	2407.4	2283.8	2079.5	1844.6	1589.6
57.5°	2057.5	2065.2	2164.9	2317.3	2422.8	2433.3	2407.4	2282.8	2078.6	1843.7	1589.6
60°	1987.5	2005.7	2117.9	2282.8	2395.0	2408.4	2383.5	2244.4	2054.6	1816.8	1563.7
62.5°	1893.5	1918.5	2036.4	2201.3	2327.9	2337.4	2312.5	2180.2	2000.9	1760.3	1510.0
65°	1758.4	1796.7	1920.4	2079.5	2216.6	2228.1	2203.2	2072.8	1911.8	1674.0	1429.5
67.5°	1626.0	1649.1	1781.4	1932.8	2060.4	2077.6	2056.5	1940.5	1789.0	1558.9	1322.1
70°	1475.5	1491.8	1601.1	1749.7	1878.2	1892.6	1874.4	1766.0	1623.2	1416.1	1196.5
72.5°	1294.3	1311.6	1404.6	1541.7	1655.8	1678.8	1666.3	1554.1	1424.7	1245.4	1056.5
75°	1090.1	1109.3	1192.7	1302.0	1413.2	1426.6	1412.2	1329.8	1212.8	1050.8	885.9
77.5°	884.0	896.4	956.8	1039.3	1125.6	1154.3	1150.5	1092.0	974.1	845.6	711.4
80°	661.5	663.5	695.1	763.2	832.2	853.3	858.1	805.4	727.7	630.9	533.1
82.5°	418.0	424.7	442.0	492.8	526.4	555.1	561.8	531.1	482.3	421.9	361.5
85°	194.6	188.9	202.3	219.6	267.5	267.5	276.1	259.8	245.4	225.3	187.0
87.5°	16.3	15.3	15.3	16.3	25.9	27.8	44.1	48.9	52.7	52.7	55.6
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: P472268  
 CATALOG NUMBER: CCW-VA-4-730-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5
2.5°	723.9	722.9	720.0	720.0	721.9	724.8	725.8	726.7	727.7	728.7	728.7
5°	735.4	734.4	732.5	730.6	732.5	733.4	736.3	738.2	738.2	740.2	739.2
7.5°	745.9	746.9	745.0	744.0	744.0	745.9	749.7	752.6	754.5	755.5	757.4
10°	769.9	764.1	756.5	752.6	752.6	756.5	760.3	764.1	768.0	769.9	769.9
12.5°	791.0	784.3	769.9	764.1	763.2	767.0	771.8	777.5	780.4	783.3	783.3
15°	810.1	804.4	787.1	773.7	769.9	772.8	778.5	785.2	790.0	792.9	792.9
17.5°	846.6	829.3	806.3	784.3	776.6	777.5	784.3	791.0	796.7	798.6	797.7
20°	881.1	859.0	824.5	792.9	780.4	776.6	783.3	791.9	796.7	799.6	799.6
22.5°	920.4	896.4	842.7	801.5	778.5	772.8	778.5	786.2	791.9	793.8	795.8
25°	976.0	933.8	862.9	808.2	775.6	764.1	768.0	775.6	782.3	783.3	782.3
27.5°	1025.9	977.9	889.7	814.9	768.9	747.8	744.0	749.7	760.3	767.0	768.9
30°	1069.0	1024.9	917.5	820.7	756.5	721.0	716.2	718.1	724.8	743.0	744.0
32.5°	1133.2	1065.2	945.3	825.5	742.1	706.6	699.9	698.0	699.9	709.5	709.5
35°	1177.3	1110.2	973.1	834.1	731.5	695.1	688.4	685.5	683.6	674.0	671.1
37.5°	1234.9	1160.1	1000.0	841.8	726.7	690.3	680.7	682.6	673.0	646.2	638.5
40°	1298.2	1205.2	1026.8	849.5	728.7	691.3	682.6	681.7	665.4	628.0	620.3
42.5°	1328.8	1243.5	1054.6	860.0	736.3	694.1	686.5	683.6	663.5	621.3	610.7
45°	1358.6	1271.3	1074.8	868.6	744.0	698.0	688.4	685.5	662.5	615.5	607.9
47.5°	1385.4	1288.6	1084.4	873.4	749.7	700.8	689.3	684.6	657.7	612.6	605.0
50°	1397.9	1298.2	1084.4	873.4	751.7	703.7	687.4	680.7	650.0	607.9	601.1
52.5°	1417.0	1303.9	1075.7	867.7	748.8	703.7	683.6	673.0	640.4	601.1	595.4
55°	1445.8	1314.5	1064.2	859.0	742.1	698.0	676.9	662.5	627.0	591.6	586.8
57°	1455.4	1318.3	1056.5	848.5	734.4	690.3	669.2	651.0	614.6	582.0	577.2
57.5°	1453.5	1316.4	1053.7	845.6	731.5	687.4	667.3	648.1	611.7	580.0	575.3
60°	1427.6	1298.2	1035.5	827.4	716.2	672.1	650.0	628.9	591.6	563.7	559.9
62.5°	1385.4	1256.9	1002.9	803.4	695.1	651.0	628.0	604.0	566.6	542.7	540.7
65°	1313.5	1187.9	955.9	768.9	668.3	623.2	598.3	572.4	539.8	518.7	512.9
67.5°	1193.6	1095.9	889.7	721.0	627.0	588.7	561.8	535.0	505.3	487.0	483.2
70°	1093.9	995.2	805.4	660.6	577.2	540.7	515.8	489.9	464.0	447.7	446.8
72.5°	967.4	872.5	699.9	585.8	513.9	478.4	459.2	436.2	416.1	401.7	401.7
75°	814.0	739.2	590.6	496.6	438.2	412.3	396.0	377.7	360.5	350.9	352.8
77.5°	647.2	590.6	482.3	401.7	358.6	341.3	326.0	315.4	304.9	296.3	297.2
80°	477.5	435.3	354.7	295.3	274.2	258.9	256.0	249.3	243.5	240.6	235.9
82.5°	326.9	289.5	235.9	202.3	187.0	182.2	183.1	183.1	184.1	184.1	182.2
85°	169.7	155.3	119.8	108.3	106.4	111.2	117.0	120.8	119.8	119.8	117.0
87.5°	48.9	44.1	38.4	34.5	36.4	39.3	34.5	33.6	32.6	31.6	31.6
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)