

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: P472163

Luminaire Tested: **CCW-VA-5-740-U-T4W**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472163
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-5-740-U-T4W
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS
Light Source: 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7960.7 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

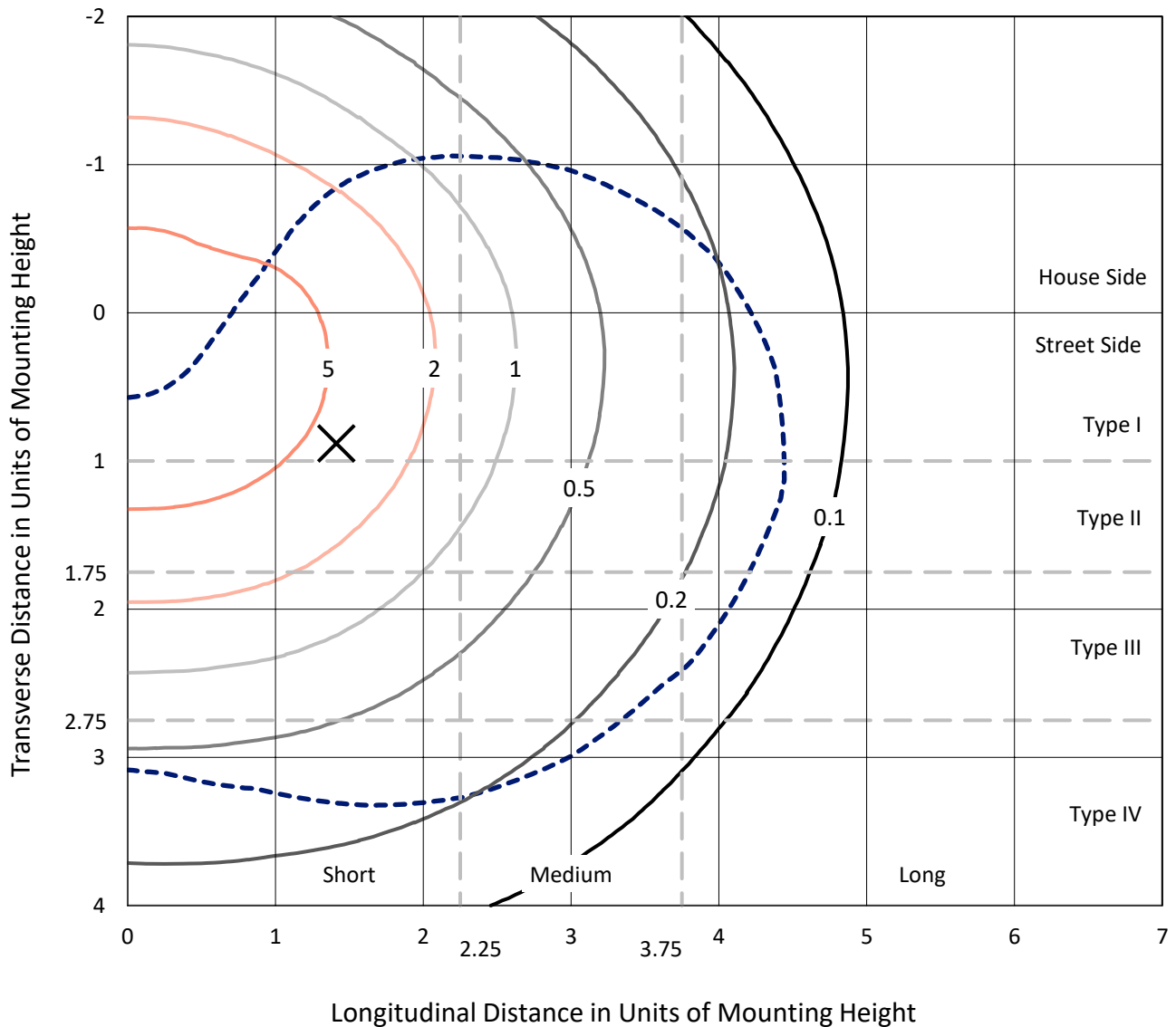
Input Watts (W): 74.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

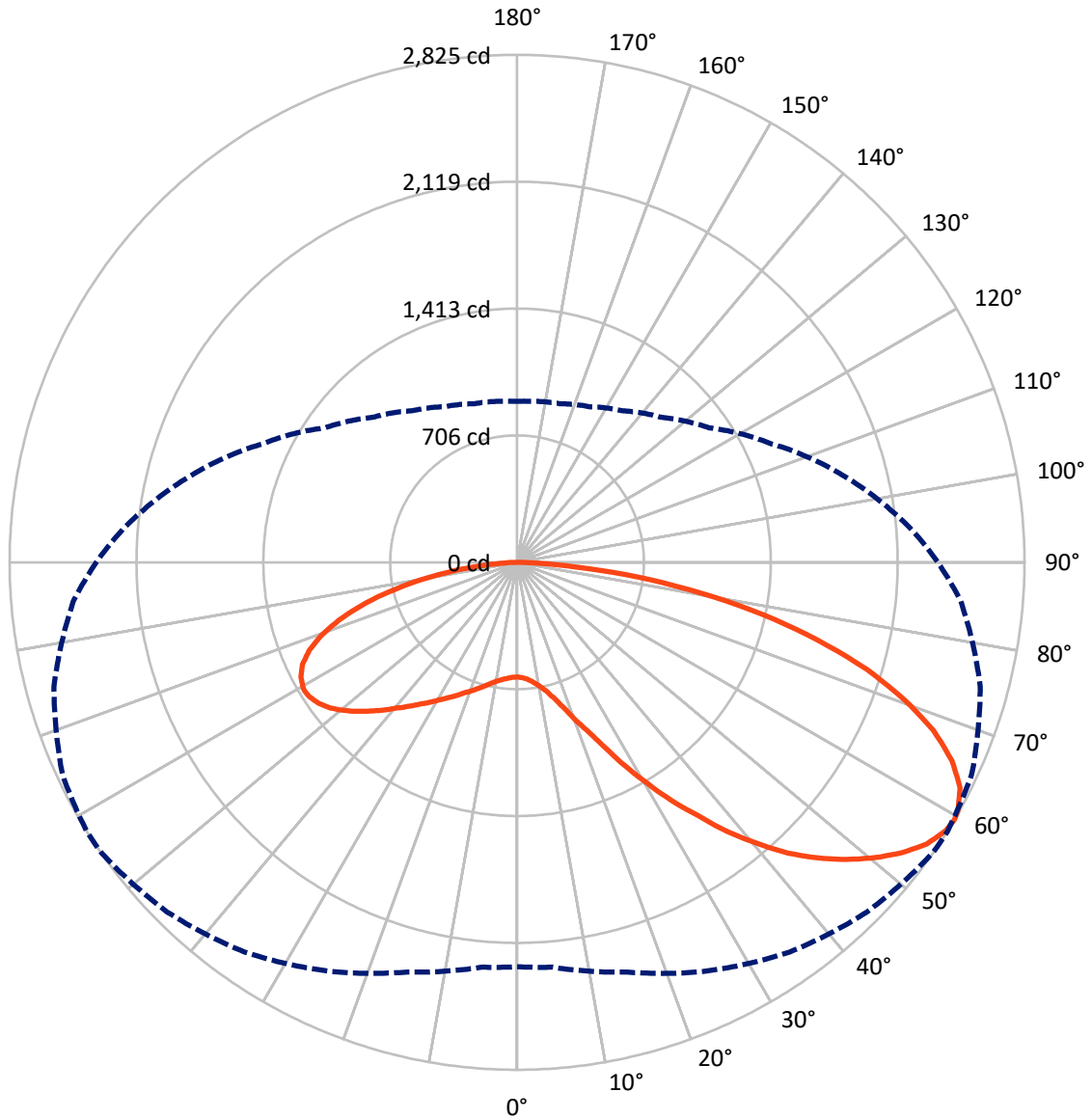
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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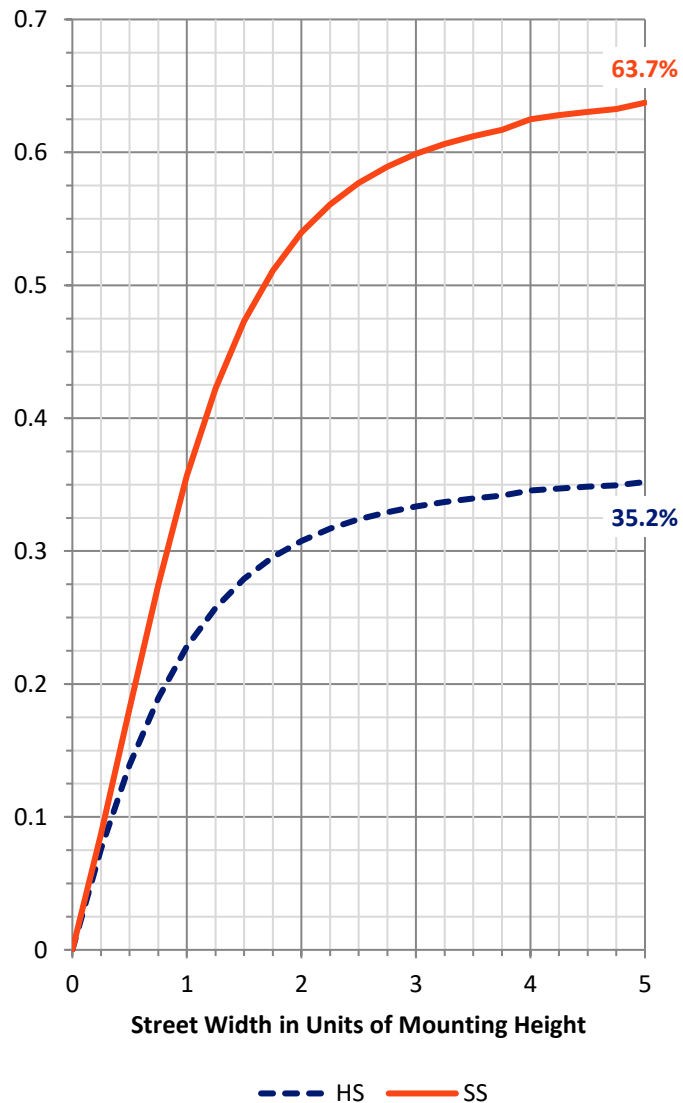
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2839.1	0.0	2839.1
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	5121.6	0.0	5121.6
	% Fixture	64.3	0.0	64.3
Total	Lumens	7960.7	0.0	7960.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	0.8
10°-20°	215.9	2.7
20°-30°	455.8	5.7
30°-40°	838.8	10.5
40°-50°	1307.4	16.4
50°-60°	1717.9	21.6
60°-70°	1800.1	22.6
70°-80°	1248.1	15.7
80°-90°	313.4	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°	7960.7	100.0
0°-180°	7960.7	100.0

Coefficient of Utilization

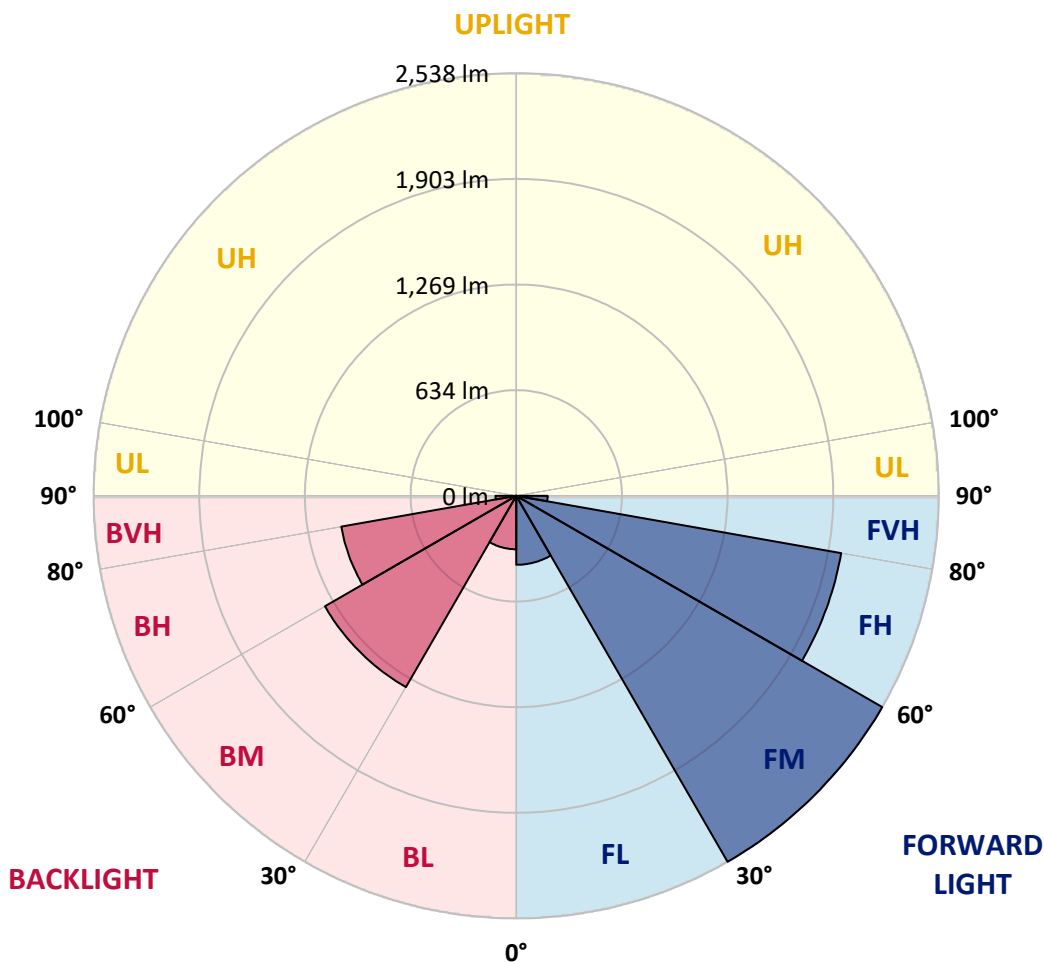


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	414.1	5.2			
FM (30°-60°)	2537.7	31.9			
FH (60°-80°)	1981.4	24.9			G2/5000
FVH (80°-90°)	188.3	2.4			G2/225
BL (0°-30°)	320.9	4.0	B1/500		
BM (30°-60°)	1326.4	16.7	B2/2500		
BH (60°-80°)	1066.7	13.4	B3/2500		G3/2500
BVH (80°-90°)	125.1	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°	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2
2.5°	647.1	647.1	647.1	645.3	645.3	645.3	643.5	643.5	643.5	641.8	640.0
5°	661.5	661.5	659.7	661.5	659.7	657.9	656.1	656.1	656.1	654.3	652.5
7.5°	681.2	683.0	681.2	683.0	681.2	679.4	675.8	675.8	674.0	670.4	666.9
10°	711.7	711.7	711.7	709.9	708.1	706.3	704.5	702.7	700.9	695.5	690.2
12.5°	749.3	749.3	749.3	745.7	745.7	742.1	740.3	738.6	735.0	727.8	720.6
15°	795.9	794.1	799.5	799.5	797.7	797.7	792.3	788.8	785.2	774.4	758.3
17.5°	858.7	856.9	862.2	865.8	865.8	867.6	858.7	855.1	842.5	828.2	806.7
20°	942.9	939.3	944.7	948.3	944.7	948.3	939.3	941.1	923.2	898.1	864.0
22.5°	1034.3	1034.3	1039.7	1039.7	1041.5	1045.1	1034.3	1029.0	1014.6	978.8	935.7
25°	1147.3	1156.2	1156.2	1156.2	1163.4	1165.2	1154.4	1145.5	1125.8	1077.4	1018.2
27.5°	1285.3	1283.5	1281.7	1292.5	1292.5	1296.1	1288.9	1285.3	1262.0	1202.8	1113.2
30°	1432.3	1421.5	1428.7	1432.3	1439.5	1444.8	1437.7	1426.9	1398.2	1333.7	1222.6
32.5°	1566.7	1573.9	1584.7	1588.3	1599.0	1600.8	1582.9	1582.9	1554.2	1471.7	1357.0
35°	1719.1	1719.1	1747.8	1760.3	1760.3	1771.1	1744.2	1729.9	1710.2	1624.1	1478.9
37.5°	1851.8	1855.4	1878.7	1907.3	1910.9	1927.1	1907.3	1902.0	1866.1	1778.3	1616.9
40°	1975.5	1979.0	2007.7	2041.8	2061.5	2086.6	2066.9	2057.9	2020.3	1919.9	1755.0
42.5°	2072.3	2079.4	2115.3	2165.5	2197.7	2228.2	2219.3	2213.9	2161.9	2056.1	1882.2
45°	2145.8	2158.3	2208.5	2267.7	2312.5	2357.3	2359.1	2348.3	2299.9	2181.6	2005.9
47.5°	2204.9	2219.3	2274.8	2350.1	2418.2	2473.8	2484.6	2472.0	2427.2	2303.5	2117.1
50°	2253.3	2260.5	2323.2	2420.0	2504.3	2574.2	2595.7	2584.9	2545.5	2405.7	2213.9
52.5°	2278.4	2289.2	2360.9	2472.0	2574.2	2658.4	2690.7	2685.3	2638.7	2498.9	2299.9
55°	2291.0	2301.7	2386.0	2513.2	2628.0	2726.6	2766.0	2767.8	2723.0	2583.2	2380.6
57.5°	2276.6	2291.0	2382.4	2524.0	2651.3	2757.0	2818.0	2816.2	2780.3	2647.7	2448.7
59°	2251.5	2262.3	2360.9	2509.7	2647.7	2753.5	2823.4	2825.2	2792.9	2669.2	2479.2
60°	2222.8	2235.4	2335.8	2491.7	2633.4	2740.9	2814.4	2818.0	2791.1	2674.6	2491.7
62.5°	2124.2	2140.4	2251.5	2418.2	2572.4	2674.6	2762.4	2767.8	2753.5	2660.2	2500.7
65°	1986.2	2000.6	2120.7	2298.1	2459.5	2565.2	2647.7	2660.2	2658.4	2595.7	2464.8
67.5°	1817.7	1819.5	1932.4	2126.0	2294.5	2398.5	2477.4	2498.9	2515.0	2473.8	2359.1
70°	1615.1	1613.4	1722.7	1914.5	2083.0	2192.4	2271.2	2285.6	2326.8	2294.5	2201.3
72.5°	1364.2	1385.7	1487.9	1649.2	1815.9	1937.8	2007.7	2034.6	2057.9	2065.1	1988.0
75°	1127.6	1150.9	1231.5	1382.1	1525.5	1638.4	1713.7	1726.3	1769.3	1780.1	1708.4
77.5°	901.7	903.5	962.6	1082.7	1213.6	1306.8	1367.8	1400.0	1423.3	1444.8	1369.6
80°	632.8	641.8	683.0	769.0	871.2	969.8	1020.0	1041.5	1057.6	1072.0	1046.9
82.5°	396.2	399.8	426.6	478.6	548.5	604.1	656.1	674.0	677.6	709.9	706.3
85°	188.2	190.0	207.9	233.0	263.5	308.3	328.0	328.0	353.1	376.4	376.4
87.5°	25.1	25.1	30.5	34.1	43.0	55.6	77.1	78.9	93.2	104.0	112.9
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°	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2
2.5°	640.0	640.0	640.0	640.0	640.0	638.2	640.0	640.0	640.0	640.0	640.0
5°	652.5	650.7	648.9	647.1	647.1	645.3	645.3	645.3	645.3	645.3	645.3
7.5°	665.1	663.3	661.5	657.9	656.1	654.3	654.3	652.5	652.5	652.5	652.5
10°	686.6	684.8	677.6	672.2	668.6	666.9	665.1	663.3	661.5	661.5	661.5
12.5°	715.3	711.7	699.1	691.9	686.6	683.0	679.4	677.6	675.8	674.0	674.0
15°	751.1	742.1	726.0	715.3	708.1	702.7	697.3	693.7	691.9	690.2	690.2
17.5°	794.1	783.4	761.9	742.1	729.6	720.6	713.5	708.1	706.3	706.3	706.3
20°	847.9	830.0	799.5	772.6	752.9	740.3	729.6	724.2	722.4	720.6	718.8
22.5°	910.6	887.3	842.5	801.3	776.2	758.3	745.7	738.6	733.2	731.4	731.4
25°	982.4	948.3	889.1	838.9	804.9	779.8	763.7	754.7	745.7	742.1	742.1
27.5°	1068.4	1023.6	944.7	878.4	831.8	801.3	783.4	770.8	761.9	754.7	751.1
30°	1161.6	1111.4	1005.7	921.4	862.2	828.2	806.7	792.3	779.8	767.2	765.4
32.5°	1279.9	1208.2	1079.2	969.8	898.1	855.1	830.0	812.1	795.9	783.4	779.8
35°	1400.0	1314.0	1156.2	1020.0	932.2	880.2	849.7	830.0	813.8	799.5	797.7
37.5°	1523.7	1432.3	1240.5	1079.2	971.6	908.9	871.2	849.7	830.0	815.6	813.8
40°	1652.8	1545.2	1326.5	1140.1	1012.8	937.5	894.5	867.6	846.1	833.6	831.8
42.5°	1774.7	1658.2	1419.8	1211.8	1061.2	968.0	917.8	889.1	862.2	849.7	847.9
45°	1891.2	1765.7	1513.0	1278.1	1109.6	1000.3	941.1	907.1	878.4	865.8	864.0
47.5°	1997.0	1871.5	1599.0	1349.8	1159.8	1036.1	966.2	925.0	892.7	880.2	880.2
50°	2092.0	1961.1	1683.3	1416.2	1206.4	1072.0	987.7	941.1	908.9	896.3	894.5
52.5°	2181.6	2040.0	1756.8	1473.5	1251.2	1104.3	1009.2	953.7	919.6	905.3	903.5
55°	2253.3	2111.7	1817.7	1520.1	1281.7	1125.8	1023.6	960.8	923.2	910.6	908.9
57.5°	2316.1	2170.9	1860.7	1552.4	1301.4	1138.3	1030.8	960.8	921.4	907.1	905.3
59°	2342.9	2196.0	1875.1	1561.4	1305.0	1140.1	1029.0	955.5	914.2	899.9	896.3
60°	2357.3	2206.7	1880.5	1563.2	1303.2	1136.5	1027.2	950.1	907.1	890.9	890.9
62.5°	2371.6	2215.7	1873.3	1548.8	1283.5	1116.8	1009.2	928.6	880.2	862.2	862.2
65°	2341.2	2183.4	1832.1	1509.4	1244.1	1082.7	975.2	892.7	838.9	821.0	821.0
67.5°	2251.5	2104.5	1756.8	1435.9	1179.5	1023.6	919.6	835.4	785.2	765.4	760.1
70°	2099.2	1975.5	1638.4	1330.1	1091.7	948.3	849.7	769.0	717.0	697.3	690.2
72.5°	1894.8	1772.9	1480.7	1201.1	975.2	849.7	763.7	686.6	629.2	609.5	611.3
75°	1613.4	1527.3	1276.3	1037.9	840.7	724.2	652.5	588.0	539.6	523.4	525.2
77.5°	1308.6	1236.9	1034.3	846.1	686.6	596.9	536.0	484.0	451.7	442.8	437.4
80°	1002.1	932.2	776.2	631.0	521.7	458.9	417.7	381.8	356.7	344.2	347.8
82.5°	672.2	629.2	514.5	417.7	354.9	310.1	295.8	272.5	263.5	256.3	261.7
85°	362.1	324.5	268.9	224.1	195.4	182.8	186.4	184.6	177.5	175.7	181.1
87.5°	118.3	102.2	78.9	66.3	68.1	60.9	60.9	57.4	52.0	50.2	53.8
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)