

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: P472167

Luminaire Tested: **CCW-VA-3-750-U-T4W**

Issue Date: 01/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P472167  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-VA-3-750-U-T4W  
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS  
Light Source: 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5206.8 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

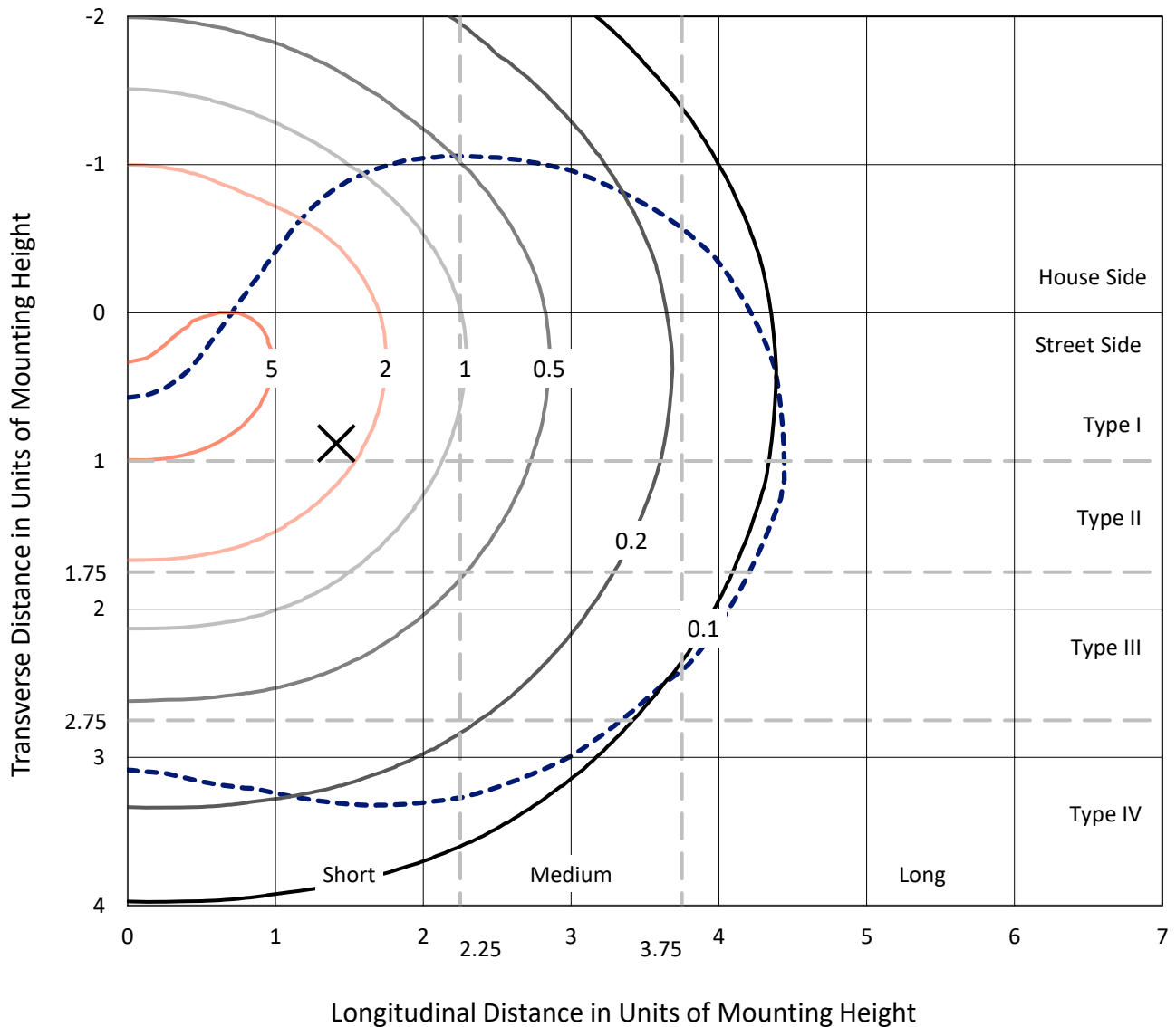
Input Watts (W): 46.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

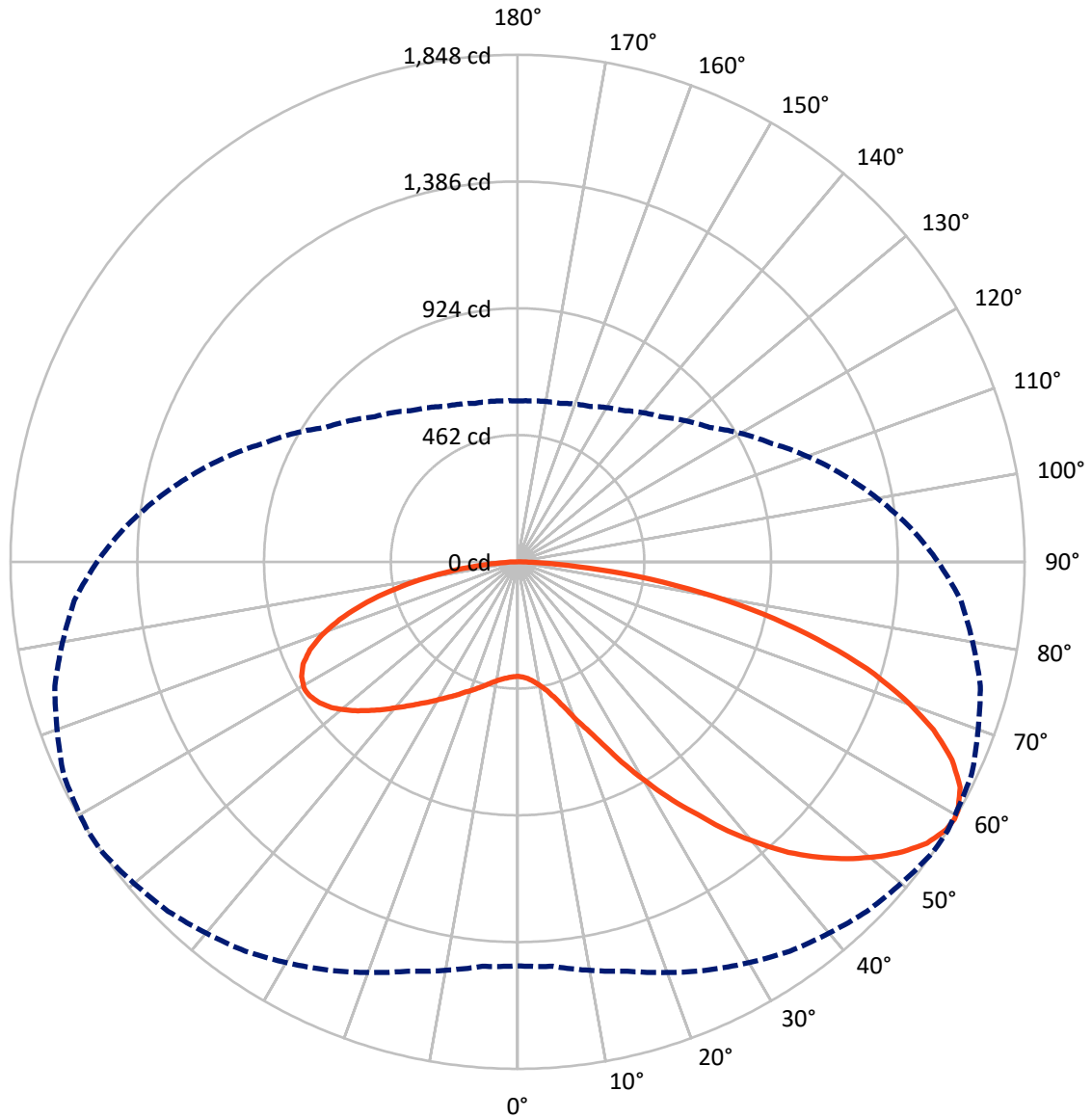
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 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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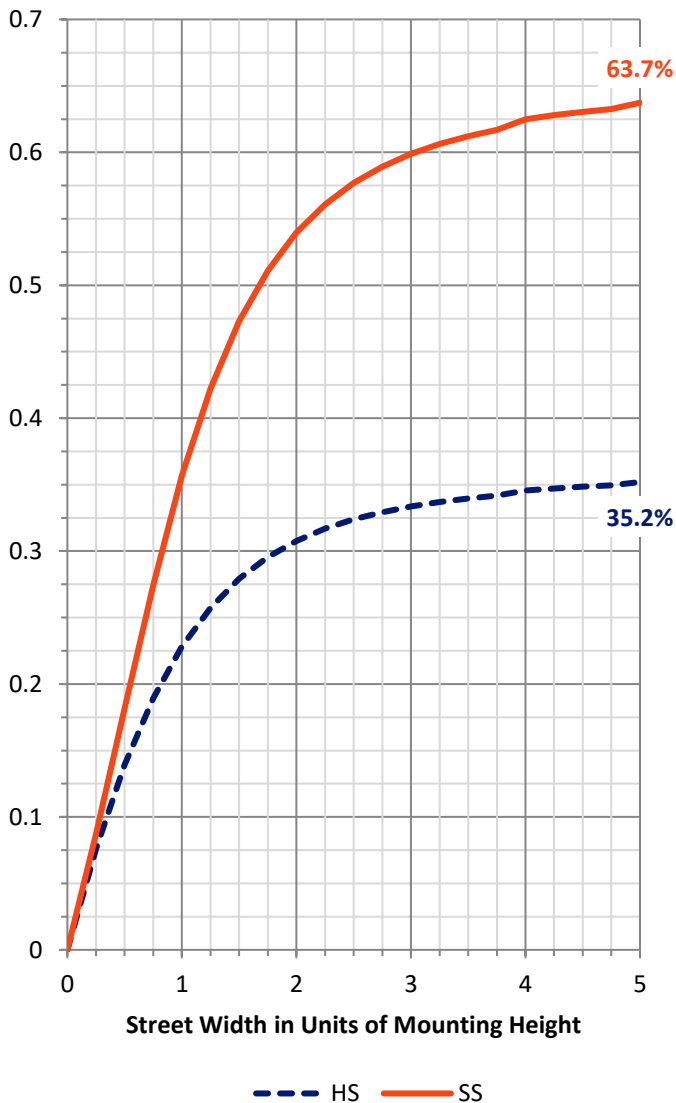
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1856.9	0.0	1856.9
	% Fixture	35.7	0.0	35.7
<b>Street Side</b>	Lumens	3349.9	0.0	3349.9
	% Fixture	64.3	0.0	64.3
<b>Total</b>	Lumens	5206.8	0.0	5206.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.4	0.8
10°-20°	141.2	2.7
20°-30°	298.1	5.7
30°-40°	548.6	10.5
40°-50°	855.1	16.4
50°-60°	1123.6	21.6
60°-70°	1177.4	22.6
70°-80°	816.3	15.7
80°-90°	205.0	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°	5206.8	100.0
0°-180°	5206.8	100.0

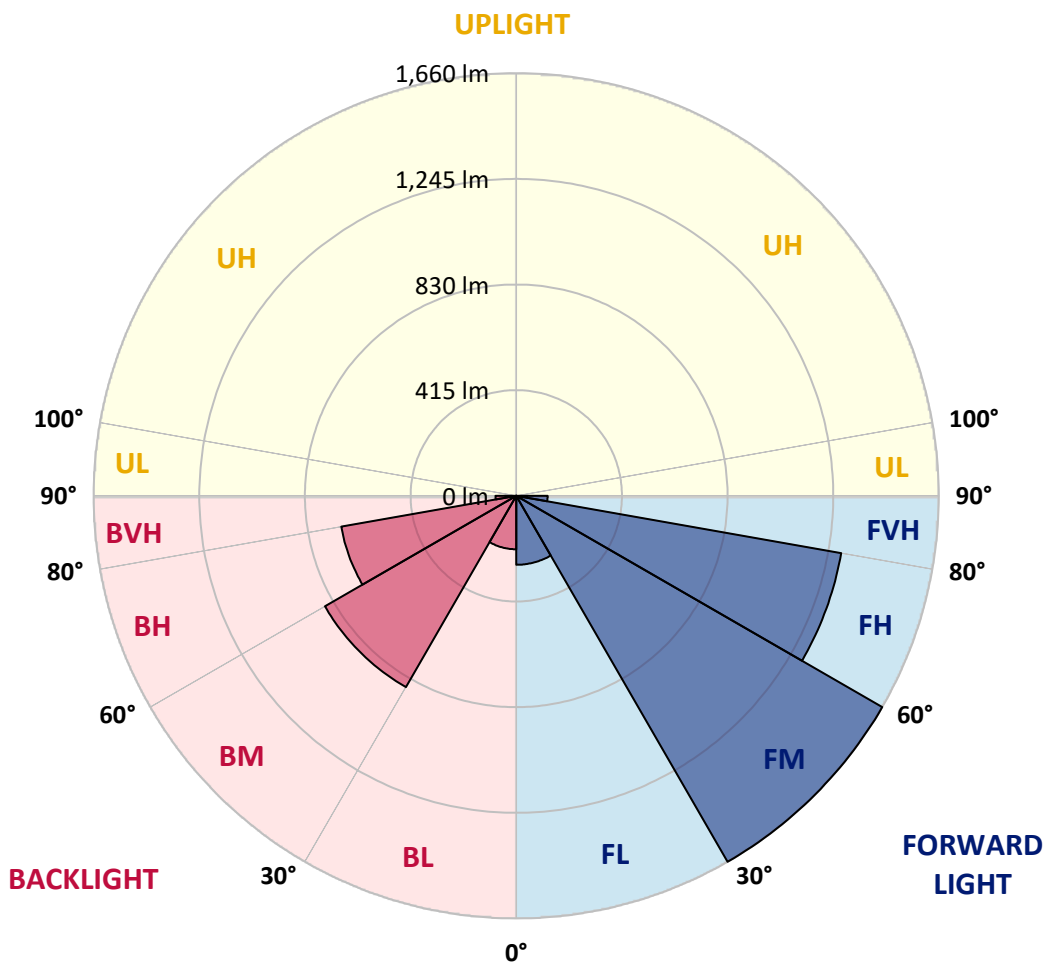


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	270.9	5.2			
FM (30°-60°)	1659.8	31.9			
FH (60°-80°)	1296.0	24.9			G1/1800
FVH (80°-90°)	123.2	2.4			G2/225
BL (0°-30°)	209.9	4.0	B1/500		
BM (30°-60°)	867.5	16.7	B1/1000		
BH (60°-80°)	697.7	13.4	B2/1000		G2/1000
BVH (80°-90°)	81.8	1.6			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	417.4	417.4	417.4	417.4	417.4	417.4	417.4	417.4	417.4	417.4	417.4
2.5°	423.3	423.3	423.3	422.1	422.1	422.1	420.9	420.9	420.9	419.7	418.6
5°	432.6	432.6	431.5	432.6	431.5	430.3	429.1	429.1	429.1	428.0	426.8
7.5°	445.5	446.7	445.5	446.7	445.5	444.4	442.0	442.0	440.9	438.5	436.2
10°	465.5	465.5	465.5	464.3	463.1	462.0	460.8	459.6	458.4	454.9	451.4
12.5°	490.1	490.1	490.1	487.8	487.8	485.4	484.2	483.1	480.7	476.0	471.3
15°	520.6	519.4	522.9	522.9	521.8	521.8	518.2	515.9	513.5	506.5	496.0
17.5°	561.6	560.4	564.0	566.3	566.3	567.5	561.6	559.3	551.1	541.7	527.6
20°	616.7	614.4	617.9	620.2	617.9	620.2	614.4	615.6	603.8	587.4	565.1
22.5°	676.5	676.5	680.0	680.0	681.2	683.6	676.5	673.0	663.6	640.2	612.0
25°	750.4	756.3	756.3	756.3	760.9	762.1	755.1	749.2	736.3	704.7	666.0
27.5°	840.7	839.5	838.3	845.4	845.4	847.7	843.0	840.7	825.4	786.7	728.1
30°	936.8	929.8	934.5	936.8	941.5	945.0	940.3	933.3	914.5	872.3	799.6
32.5°	1024.8	1029.4	1036.5	1038.8	1045.9	1047.0	1035.3	1035.3	1016.5	962.6	887.6
35°	1124.4	1124.4	1143.2	1151.4	1151.4	1158.4	1140.8	1131.4	1118.5	1062.3	967.3
37.5°	1211.2	1213.5	1228.8	1247.5	1249.9	1260.4	1247.5	1244.0	1220.6	1163.1	1057.6
40°	1292.1	1294.4	1313.2	1335.5	1348.4	1364.8	1351.9	1346.0	1321.4	1255.7	1147.9
42.5°	1355.4	1360.1	1383.5	1416.4	1437.5	1457.4	1451.5	1448.0	1414.0	1344.8	1231.1
45°	1403.5	1411.7	1444.5	1483.2	1512.5	1541.8	1543.0	1536.0	1504.3	1426.9	1312.0
47.5°	1442.2	1451.5	1487.9	1537.1	1581.7	1618.0	1625.1	1616.9	1587.5	1506.6	1384.7
50°	1473.8	1478.5	1519.5	1582.9	1638.0	1683.7	1697.8	1690.7	1664.9	1573.5	1448.0
52.5°	1490.2	1497.3	1544.2	1616.9	1683.7	1738.8	1759.9	1756.4	1725.9	1634.4	1504.3
55°	1498.4	1505.5	1560.6	1643.8	1718.9	1783.3	1809.1	1810.3	1781.0	1689.5	1557.1
57.5°	1489.1	1498.4	1558.2	1650.9	1734.1	1803.3	1843.1	1842.0	1818.5	1731.8	1601.6
59°	1472.6	1479.7	1544.2	1641.5	1731.8	1800.9	1846.7	1847.8	1826.7	1745.8	1621.5
60°	1453.9	1462.1	1527.7	1629.8	1722.4	1792.7	1840.8	1843.1	1825.6	1749.3	1629.8
62.5°	1389.4	1399.9	1472.6	1581.7	1682.5	1749.3	1806.8	1810.3	1800.9	1740.0	1635.6
65°	1299.1	1308.5	1387.0	1503.1	1608.6	1677.8	1731.8	1740.0	1738.8	1697.8	1612.2
67.5°	1188.9	1190.1	1263.9	1390.6	1500.8	1568.8	1620.4	1634.4	1645.0	1618.0	1543.0
70°	1056.4	1055.2	1126.8	1252.2	1362.4	1433.9	1485.5	1494.9	1521.9	1500.8	1439.8
72.5°	892.3	906.3	973.2	1078.7	1187.7	1267.5	1313.2	1330.8	1346.0	1350.7	1300.3
75°	737.5	752.7	805.5	904.0	997.8	1071.7	1120.9	1129.1	1157.2	1164.3	1117.4
77.5°	589.8	590.9	629.6	708.2	793.8	854.7	894.6	915.7	931.0	945.0	895.8
80°	413.9	419.7	446.7	503.0	569.8	634.3	667.1	681.2	691.8	701.1	684.7
82.5°	259.1	261.5	279.1	313.1	358.8	395.1	429.1	440.9	443.2	464.3	462.0
85°	123.1	124.3	136.0	152.4	172.4	201.7	214.6	214.6	231.0	246.2	246.2
87.5°	16.4	16.4	19.9	22.3	28.1	36.3	50.4	51.6	61.0	68.0	73.9
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°	417.4	417.4	417.4	417.4	417.4	417.4	417.4	417.4	417.4	417.4	417.4
2.5°	418.6	418.6	418.6	418.6	418.6	417.4	418.6	418.6	418.6	418.6	418.6
5°	426.8	425.6	424.4	423.3	423.3	422.1	422.1	422.1	422.1	422.1	422.1
7.5°	435.0	433.8	432.6	430.3	429.1	428.0	428.0	426.8	426.8	426.8	426.8
10°	449.1	447.9	443.2	439.7	437.3	436.2	435.0	433.8	432.6	432.6	432.6
12.5°	467.8	465.5	457.3	452.6	449.1	446.7	444.4	443.2	442.0	440.9	440.9
15°	491.3	485.4	474.9	467.8	463.1	459.6	456.1	453.8	452.6	451.4	451.4
17.5°	519.4	512.4	498.3	485.4	477.2	471.3	466.6	463.1	462.0	462.0	462.0
20°	554.6	542.9	522.9	505.3	492.4	484.2	477.2	473.7	472.5	471.3	470.2
22.5°	595.6	580.4	551.1	524.1	507.7	496.0	487.8	483.1	479.5	478.4	478.4
25°	642.5	620.2	581.6	548.7	526.4	510.0	499.5	493.6	487.8	485.4	485.4
27.5°	698.8	669.5	617.9	574.5	544.0	524.1	512.4	504.2	498.3	493.6	491.3
30°	759.8	726.9	657.8	602.7	564.0	541.7	527.6	518.2	510.0	501.8	500.7
32.5°	837.2	790.3	705.8	634.3	587.4	559.3	542.9	531.1	520.6	512.4	510.0
35°	915.7	859.4	756.3	667.1	609.7	575.7	555.8	542.9	532.3	522.9	521.8
37.5°	996.6	936.8	811.4	705.8	635.5	594.4	569.8	555.8	542.9	533.5	532.3
40°	1081.0	1010.7	867.6	745.7	662.5	613.2	585.1	567.5	553.4	545.2	544.0
42.5°	1160.8	1084.5	928.6	792.6	694.1	633.1	600.3	581.6	564.0	555.8	554.6
45°	1237.0	1154.9	989.6	836.0	725.8	654.2	615.6	593.3	574.5	566.3	565.1
47.5°	1306.1	1224.1	1045.9	882.9	758.6	677.7	632.0	605.0	583.9	575.7	575.7
50°	1368.3	1282.7	1101.0	926.3	789.1	701.1	646.0	615.6	594.4	586.2	585.1
52.5°	1426.9	1334.3	1149.0	963.8	818.4	722.2	660.1	623.8	601.5	592.1	590.9
55°	1473.8	1381.2	1188.9	994.3	838.3	736.3	669.5	628.5	603.8	595.6	594.4
57.5°	1514.8	1419.9	1217.0	1015.4	851.2	744.5	674.2	628.5	602.7	593.3	592.1
59°	1532.4	1436.3	1226.4	1021.2	853.6	745.7	673.0	624.9	598.0	588.6	586.2
60°	1541.8	1443.3	1229.9	1022.4	852.4	743.4	671.8	621.4	593.3	582.7	582.7
62.5°	1551.2	1449.2	1225.2	1013.0	839.5	730.5	660.1	607.3	575.7	564.0	564.0
65°	1531.3	1428.1	1198.3	987.2	813.7	708.2	637.8	583.9	548.7	537.0	537.0
67.5°	1472.6	1376.5	1149.0	939.2	771.5	669.5	601.5	546.4	513.5	500.7	497.1
70°	1373.0	1292.1	1071.7	870.0	714.0	620.2	555.8	503.0	469.0	456.1	451.4
72.5°	1239.3	1159.6	968.5	785.6	637.8	555.8	499.5	449.1	411.5	398.6	399.8
75°	1055.2	999.0	834.8	678.9	549.9	473.7	426.8	384.6	352.9	342.4	343.5
77.5°	855.9	809.0	676.5	553.4	449.1	390.4	350.6	316.6	295.5	289.6	286.1
80°	655.4	609.7	507.7	412.7	341.2	300.2	273.2	249.7	233.3	225.1	227.5
82.5°	439.7	411.5	336.5	273.2	232.2	202.8	193.5	178.2	172.4	167.7	171.2
85°	236.8	212.2	175.9	146.6	127.8	119.6	121.9	120.8	116.1	114.9	118.4
87.5°	77.4	66.8	51.6	43.4	44.6	39.9	39.9	37.5	34.0	32.8	35.2
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)