

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: P472166

Luminaire Tested: **CCW-VA-2-750-U-T4W**

Issue Date: 01/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P472166  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-VA-2-750-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: 4387.8 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

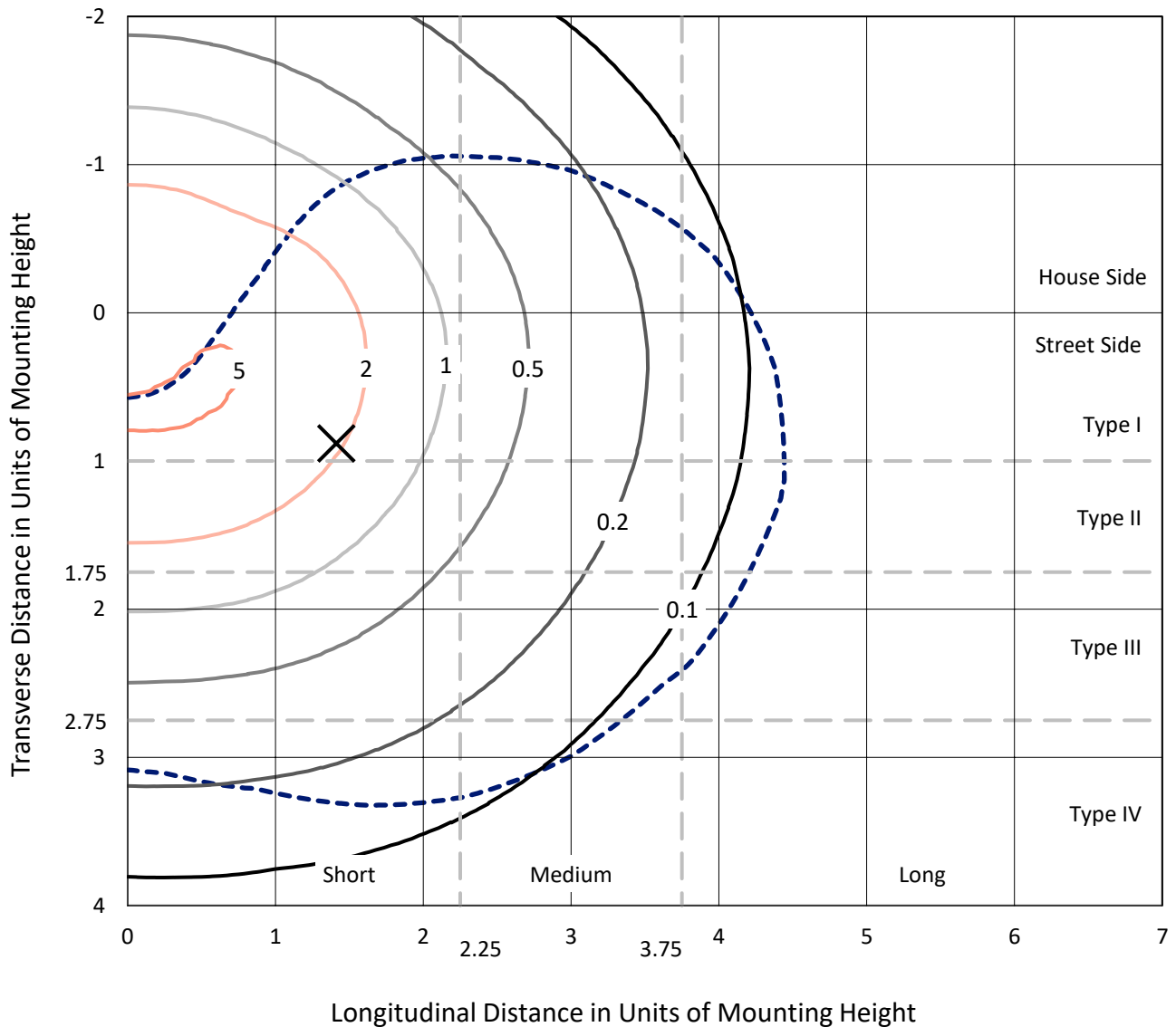
Input Watts (W): 39.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

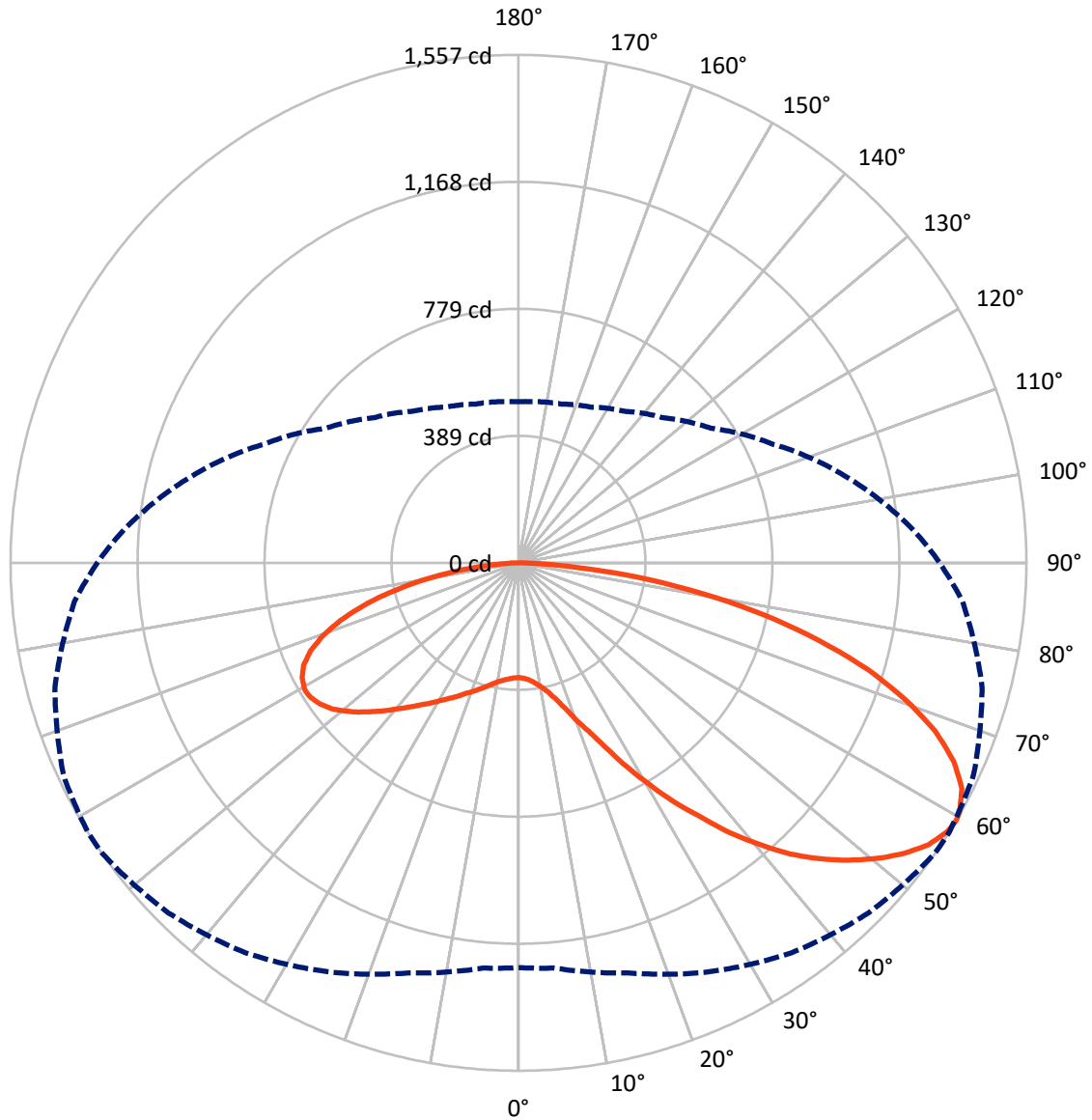
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 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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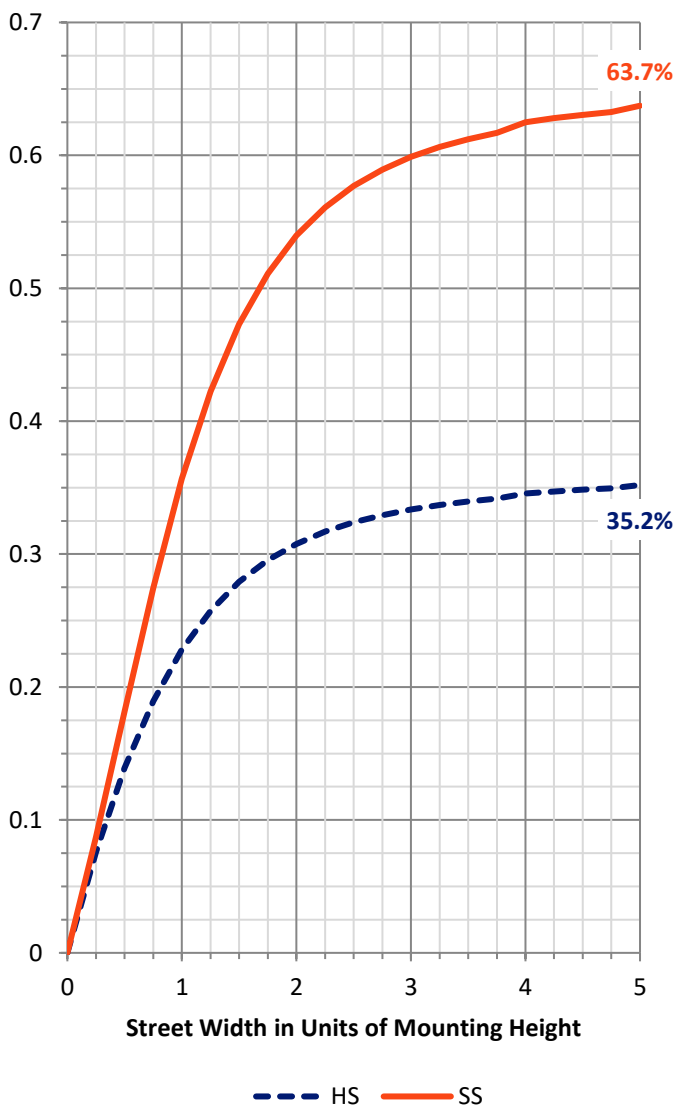
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1564.9	0.0	1564.9
	% Fixture	35.7	0.0	35.7
<b>Street Side</b>	Lumens	2823.0	0.0	2823.0
	% Fixture	64.3	0.0	64.3
<b>Total</b>	Lumens	4387.8	0.0	4387.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.9	0.8
10°-20°	119.0	2.7
20°-30°	251.2	5.7
30°-40°	462.3	10.5
40°-50°	720.6	16.4
50°-60°	946.9	21.6
60°-70°	992.2	22.6
70°-80°	687.9	15.7
80°-90°	172.7	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°	4387.8	100.0
0°-180°	4387.8	100.0

**Coefficient of Utilization**



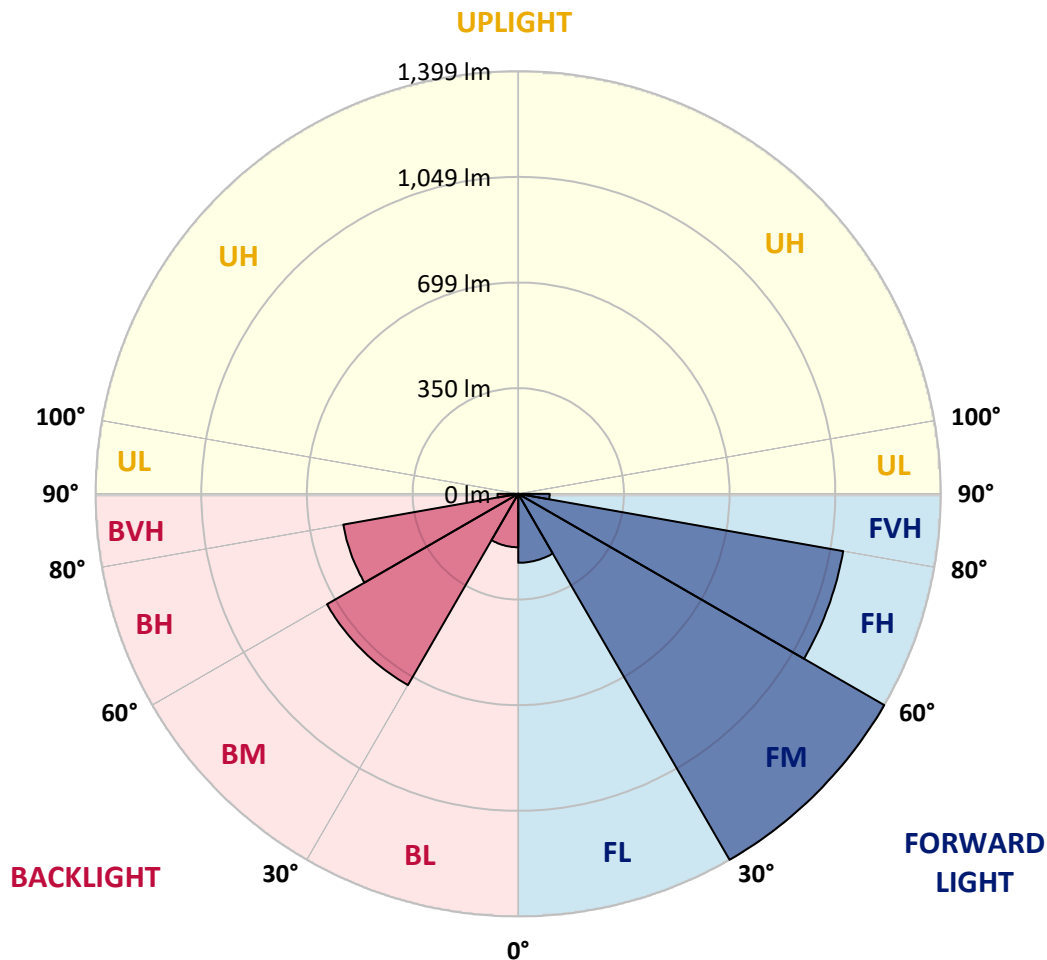
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	228.3	5.2			
FM (30°-60°)	1398.8	31.9			
FH (60°-80°)	1092.1	24.9			G1/1800
FVH (80°-90°)	103.8	2.4			G2/225
BL (0°-30°)	176.9	4.0	B1/500		
BM (30°-60°)	731.1	16.7	B1/1000		
BH (60°-80°)	588.0	13.4	B2/1000		G2/1000
BVH (80°-90°)	68.9	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°	351.8	351.8	351.8	351.8	351.8	351.8	351.8	351.8	351.8	351.8	351.8
2.5°	356.7	356.7	356.7	355.7	355.7	355.7	354.7	354.7	354.7	353.7	352.7
5°	364.6	364.6	363.6	364.6	363.6	362.6	361.6	361.6	361.6	360.6	359.7
7.5°	375.5	376.5	375.5	376.5	375.5	374.5	372.5	372.5	371.5	369.5	367.6
10°	392.3	392.3	392.3	391.3	390.3	389.3	388.3	387.3	386.3	383.4	380.4
12.5°	413.0	413.0	413.0	411.0	411.0	409.1	408.1	407.1	405.1	401.2	397.2
15°	438.7	437.7	440.7	440.7	439.7	439.7	436.7	434.7	432.8	426.8	418.0
17.5°	473.3	472.3	475.3	477.2	477.2	478.2	473.3	471.3	464.4	456.5	444.6
20°	519.7	517.7	520.7	522.7	520.7	522.7	517.7	518.7	508.9	495.0	476.2
22.5°	570.1	570.1	573.1	573.1	574.1	576.0	570.1	567.1	559.2	539.5	515.8
25°	632.4	637.3	637.3	637.3	641.3	642.2	636.3	631.4	620.5	593.8	561.2
27.5°	708.4	707.5	706.5	712.4	712.4	714.4	710.4	708.4	695.6	663.0	613.6
30°	789.5	783.5	787.5	789.5	793.4	796.4	792.4	786.5	770.7	735.1	673.9
32.5°	863.6	867.5	873.5	875.4	881.4	882.3	872.5	872.5	856.7	811.2	748.0
35°	947.6	947.6	963.4	970.3	970.3	976.2	961.4	953.5	942.6	895.2	815.2
37.5°	1020.7	1022.6	1035.5	1051.3	1053.3	1062.2	1051.3	1048.3	1028.6	980.2	891.2
40°	1088.8	1090.8	1106.6	1125.4	1136.3	1150.1	1139.2	1134.3	1113.6	1058.2	967.3
42.5°	1142.2	1146.2	1165.9	1193.6	1211.4	1228.2	1223.2	1220.3	1191.6	1133.3	1037.5
45°	1182.7	1189.6	1217.3	1249.9	1274.6	1299.3	1300.3	1294.4	1267.7	1202.5	1105.6
47.5°	1215.3	1223.2	1253.9	1295.4	1332.9	1363.5	1369.5	1362.5	1337.8	1269.7	1166.9
50°	1242.0	1246.0	1280.5	1333.9	1380.3	1418.9	1430.7	1424.8	1403.1	1326.0	1220.3
52.5°	1255.8	1261.8	1301.3	1362.5	1418.9	1465.3	1483.1	1480.1	1454.4	1377.4	1267.7
55°	1262.7	1268.7	1315.1	1385.3	1448.5	1502.8	1524.6	1525.6	1500.9	1423.8	1312.2
57.5°	1254.8	1262.7	1313.1	1391.2	1461.3	1519.6	1553.2	1552.3	1532.5	1459.4	1349.7
59°	1241.0	1246.9	1301.3	1383.3	1459.4	1517.7	1556.2	1557.2	1539.4	1471.2	1366.5
60°	1225.2	1232.1	1287.4	1373.4	1451.5	1510.8	1551.3	1553.2	1538.4	1474.2	1373.4
62.5°	1170.9	1179.8	1241.0	1332.9	1417.9	1474.2	1522.6	1525.6	1517.7	1466.3	1378.4
65°	1094.8	1102.7	1168.9	1266.7	1355.6	1413.9	1459.4	1466.3	1465.3	1430.7	1358.6
67.5°	1001.9	1002.9	1065.1	1171.8	1264.7	1322.0	1365.5	1377.4	1386.3	1363.5	1300.3
70°	890.2	889.3	949.5	1055.3	1148.1	1208.4	1251.9	1259.8	1282.5	1264.7	1213.3
72.5°	751.9	763.8	820.1	909.0	1000.9	1068.1	1106.6	1121.5	1134.3	1138.3	1095.8
75°	621.5	634.3	678.8	761.8	840.8	903.1	944.6	951.5	975.2	981.1	941.6
77.5°	497.0	498.0	530.6	596.8	668.9	720.3	753.9	771.7	784.5	796.4	754.9
80°	348.8	353.7	376.5	423.9	480.2	534.5	562.2	574.1	583.0	590.9	577.0
82.5°	218.4	220.3	235.2	263.8	302.3	333.0	361.6	371.5	373.5	391.3	389.3
85°	103.7	104.7	114.6	128.4	145.2	169.9	180.8	180.8	194.6	207.5	207.5
87.5°	13.8	13.8	16.8	18.8	23.7	30.6	42.5	43.5	51.4	57.3	62.2
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°	351.8	351.8	351.8	351.8	351.8	351.8	351.8	351.8	351.8	351.8	351.8
2.5°	352.7	352.7	352.7	352.7	352.7	351.8	352.7	352.7	352.7	352.7	352.7
5°	359.7	358.7	357.7	356.7	356.7	355.7	355.7	355.7	355.7	355.7	355.7
7.5°	366.6	365.6	364.6	362.6	361.6	360.6	360.6	359.7	359.7	359.7	359.7
10°	378.4	377.4	373.5	370.5	368.5	367.6	366.6	365.6	364.6	364.6	364.6
12.5°	394.2	392.3	385.3	381.4	378.4	376.5	374.5	373.5	372.5	371.5	371.5
15°	414.0	409.1	400.2	394.2	390.3	387.3	384.4	382.4	381.4	380.4	380.4
17.5°	437.7	431.8	419.9	409.1	402.1	397.2	393.3	390.3	389.3	389.3	389.3
20°	467.4	457.5	440.7	425.9	415.0	408.1	402.1	399.2	398.2	397.2	396.2
22.5°	501.9	489.1	464.4	441.7	427.8	418.0	411.0	407.1	404.1	403.1	403.1
25°	541.5	522.7	490.1	462.4	443.6	429.8	420.9	416.0	411.0	409.1	409.1
27.5°	588.9	564.2	520.7	484.2	458.5	441.7	431.8	424.9	419.9	416.0	414.0
30°	640.3	612.6	554.3	507.9	475.3	456.5	444.6	436.7	429.8	422.9	421.9
32.5°	705.5	666.0	594.8	534.5	495.0	471.3	457.5	447.6	438.7	431.8	429.8
35°	771.7	724.3	637.3	562.2	513.8	485.1	468.3	457.5	448.6	440.7	439.7
37.5°	839.9	789.5	683.7	594.8	535.5	500.9	480.2	468.3	457.5	449.6	448.6
40°	911.0	851.7	731.2	628.4	558.3	516.8	493.0	478.2	466.4	459.5	458.5
42.5°	978.2	914.0	782.5	667.9	584.9	533.6	505.9	490.1	475.3	468.3	467.4
45°	1042.4	973.2	833.9	704.5	611.6	551.3	518.7	500.0	484.2	477.2	476.2
47.5°	1100.7	1031.5	881.4	744.0	639.3	571.1	532.6	509.8	492.1	485.1	485.1
50°	1153.1	1080.9	927.8	780.6	665.0	590.9	544.4	518.7	500.9	494.0	493.0
52.5°	1202.5	1124.4	968.3	812.2	689.7	608.6	556.3	525.7	506.9	499.0	498.0
55°	1242.0	1163.9	1001.9	837.9	706.5	620.5	564.2	529.6	508.9	501.9	500.9
57.5°	1276.6	1196.5	1025.6	855.7	717.3	627.4	568.1	529.6	507.9	500.0	499.0
59°	1291.4	1210.4	1033.5	860.6	719.3	628.4	567.1	526.6	503.9	496.0	494.0
60°	1299.3	1216.3	1036.5	861.6	718.3	626.4	566.2	523.7	500.0	491.1	491.1
62.5°	1307.2	1221.2	1032.5	853.7	707.5	615.6	556.3	511.8	485.1	475.3	475.3
65°	1290.4	1203.5	1009.8	832.0	685.7	596.8	537.5	492.1	462.4	452.5	452.5
67.5°	1241.0	1160.0	968.3	791.4	650.1	564.2	506.9	460.4	432.8	421.9	418.9
70°	1157.0	1088.8	903.1	733.1	601.7	522.7	468.3	423.9	395.2	384.4	380.4
72.5°	1044.4	977.2	816.1	662.0	537.5	468.3	420.9	378.4	346.8	335.9	336.9
75°	889.3	841.8	703.5	572.1	463.4	399.2	359.7	324.1	297.4	288.5	289.5
77.5°	721.3	681.8	570.1	466.4	378.4	329.0	295.4	266.8	249.0	244.1	241.1
80°	552.3	513.8	427.8	347.8	287.5	252.9	230.2	210.5	196.6	189.7	191.7
82.5°	370.5	346.8	283.6	230.2	195.6	170.9	163.0	150.2	145.2	141.3	144.3
85°	199.6	178.8	148.2	123.5	107.7	100.8	102.8	101.8	97.8	96.8	99.8
87.5°	65.2	56.3	43.5	36.6	37.5	33.6	33.6	31.6	28.7	27.7	29.6
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)