

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: P472267

Luminaire Tested: **CCW-VA-3-730-U-T4FT**

Issue Date: 01/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P472267  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-VA-3-730-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: 5115.5 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

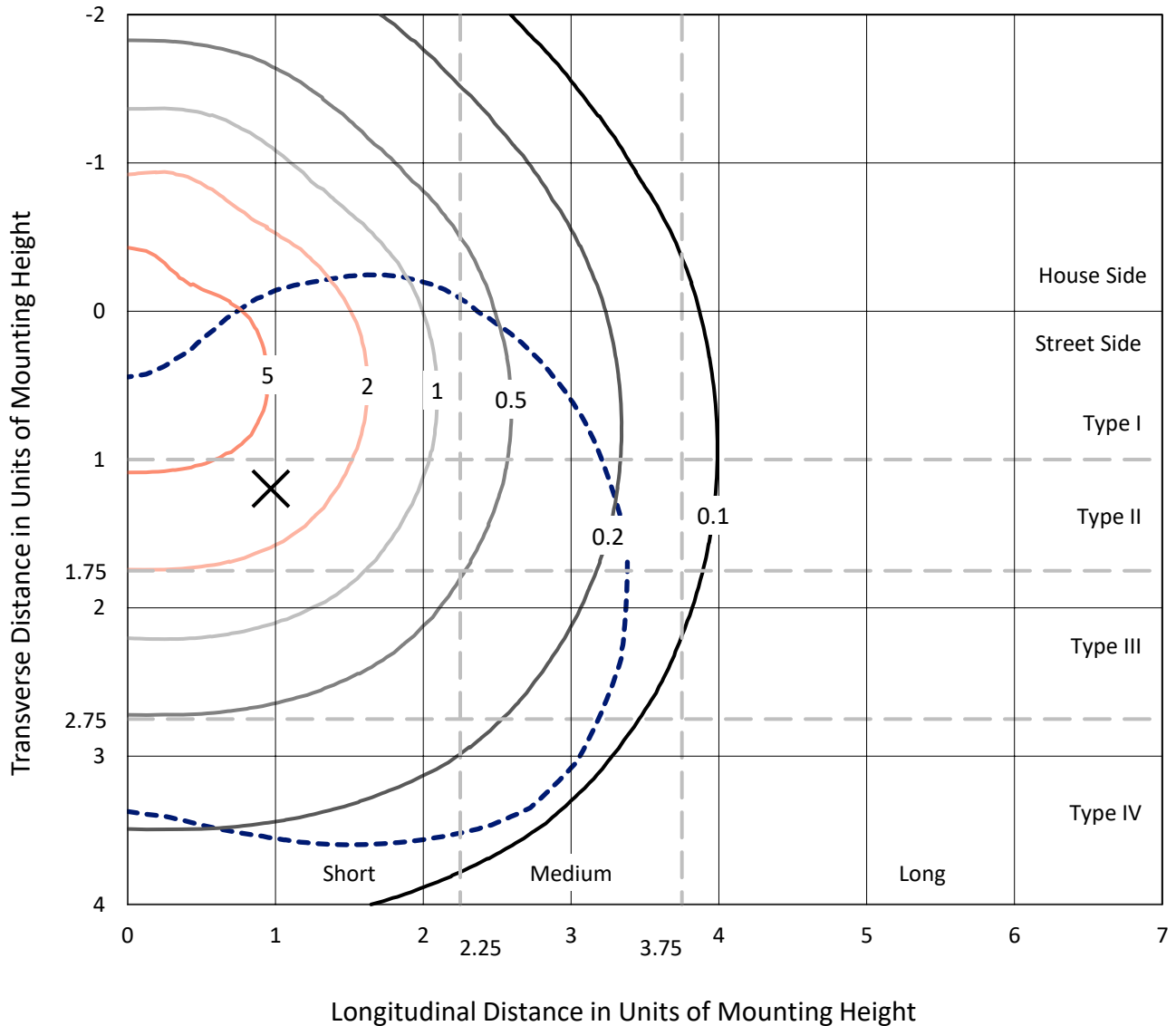
Input Watts (W): 49.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

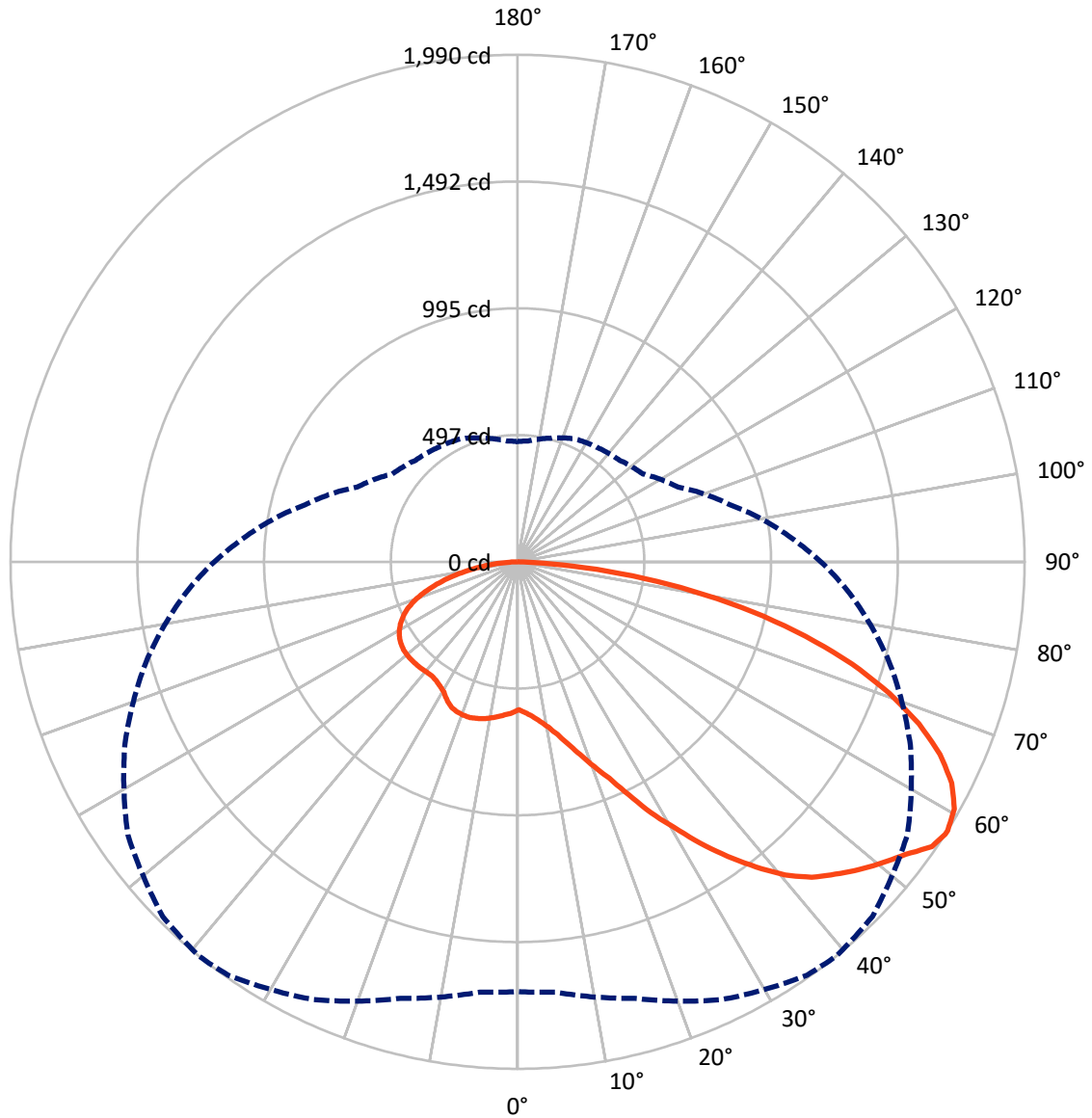
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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



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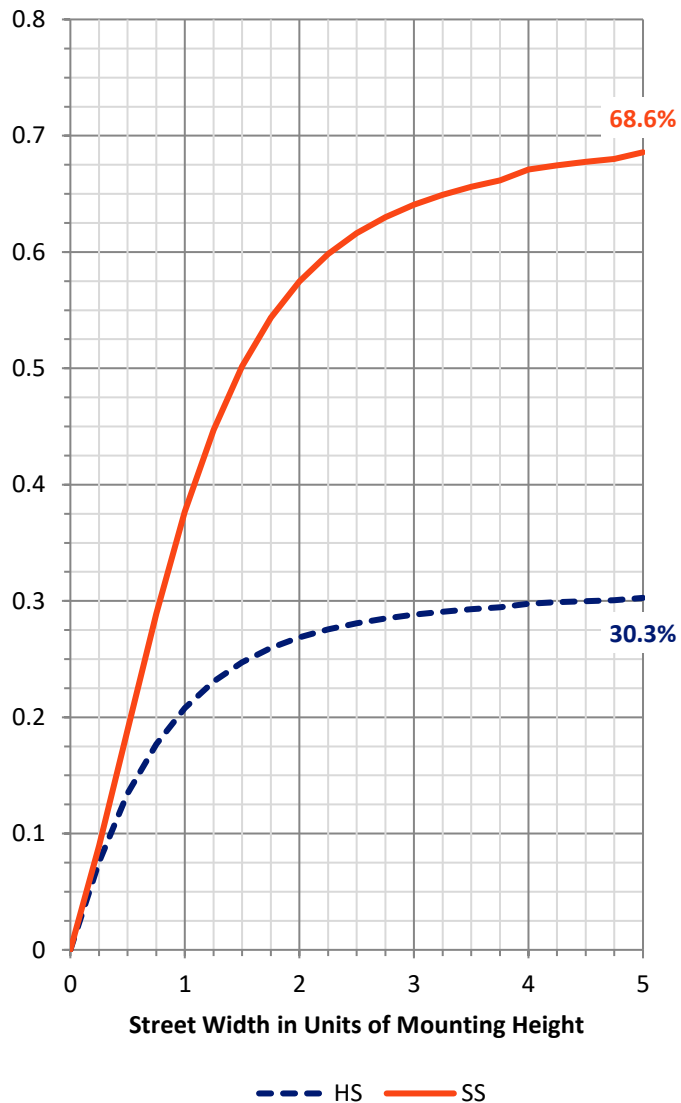
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1569.6	0.0	1569.6
	% Fixture	30.7	0.0	30.7
<b>Street Side</b>	Lumens	3545.9	0.0	3545.9
	% Fixture	69.3	0.0	69.3
<b>Total</b>	Lumens	5115.5	0.0	5115.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.7	1.1
10°-20°	195.9	3.8
20°-30°	378.4	7.4
30°-40°	612.0	12.0
40°-50°	859.9	16.8
50°-60°	1062.2	20.8
60°-70°	1055.7	20.6
70°-80°	714.4	14.0
80°-90°	178.3	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°	5115.5	100.0
0°-180°	5115.5	100.0

**Coefficient of Utilization**



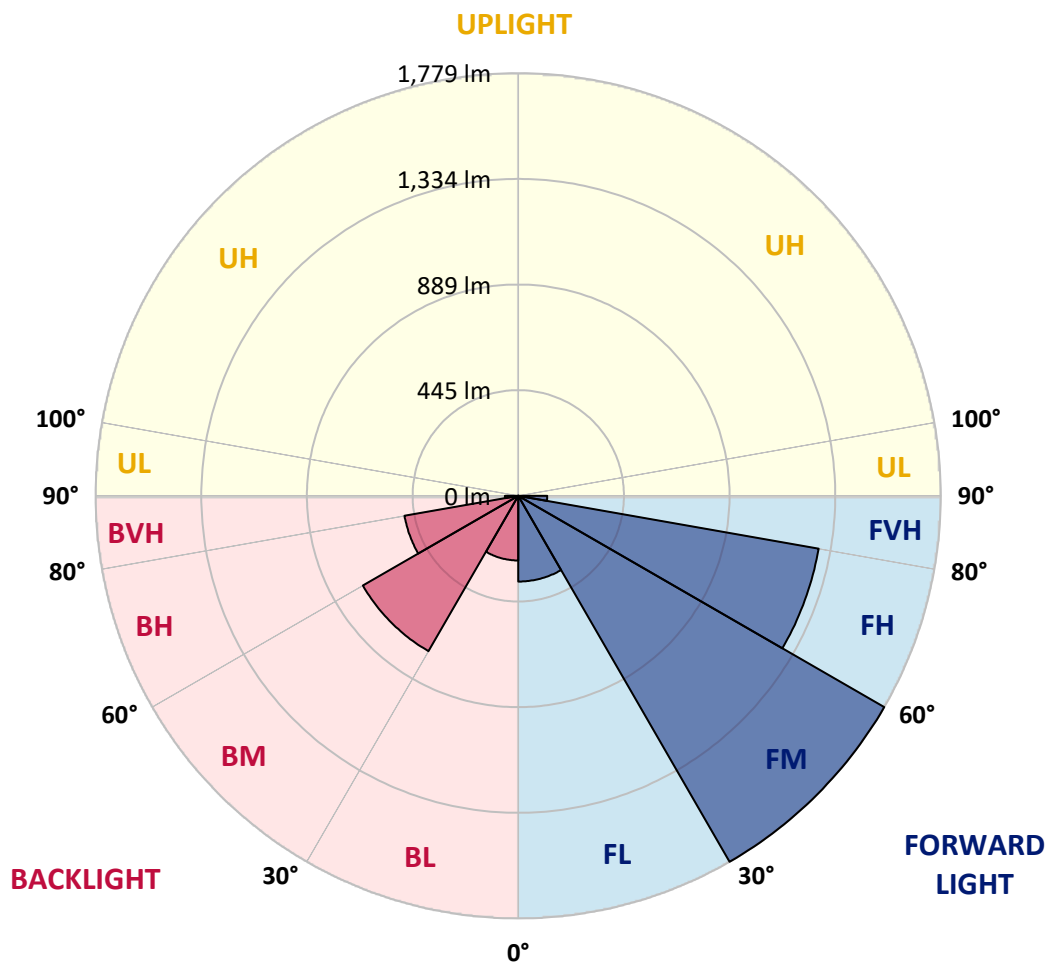
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	360.9	7.1			
FM (30°-60°)	1778.9	34.8			
FH (60°-80°)	1284.0	25.1			G1/1800
FVH (80°-90°)	122.0	2.4			G2/225
BL (0°-30°)	272.0	5.3	B1/500		
BM (30°-60°)	755.2	14.8	B1/1000		
BH (60°-80°)	486.1	9.5	B1/500		G1/500
BVH (80°-90°)	56.3	1.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1
2.5°	597.3	596.5	595.7	595.7	594.2	592.6	591.8	590.3	591.0	592.6	593.4
5°	614.6	613.0	613.0	611.4	609.1	609.1	606.7	603.6	602.8	602.0	602.0
7.5°	641.2	638.9	639.6	637.3	634.9	631.8	627.9	624.0	622.4	616.9	612.2
10°	671.8	671.0	668.7	664.7	662.4	659.2	655.3	648.3	642.8	636.5	632.6
12.5°	707.8	706.3	707.1	703.9	700.0	694.5	688.2	681.2	671.0	659.2	651.4
15°	754.9	751.7	751.7	751.0	743.1	741.6	735.3	719.6	705.5	689.8	671.8
17.5°	812.1	811.3	808.2	805.0	800.3	794.9	788.6	771.3	750.2	725.9	701.6
20°	873.2	871.7	874.0	869.3	859.9	857.6	847.4	827.8	801.9	773.7	736.8
22.5°	939.9	941.4	941.4	939.9	932.0	922.6	914.0	888.1	858.4	823.9	780.7
25°	1020.6	1021.4	1026.1	1030.8	1026.1	1011.2	999.4	959.5	919.5	875.6	824.6
27.5°	1111.5	1106.1	1119.4	1128.0	1119.4	1115.5	1089.6	1045.7	990.8	936.0	872.5
30°	1199.3	1199.3	1210.3	1222.9	1217.4	1208.0	1186.8	1130.4	1067.6	997.9	921.1
32.5°	1280.9	1290.3	1295.0	1324.0	1320.8	1316.1	1291.8	1217.4	1139.0	1059.8	968.1
35°	1377.3	1374.1	1393.7	1411.8	1425.9	1419.6	1401.6	1326.3	1223.6	1124.9	1019.8
37.5°	1450.2	1456.5	1473.7	1505.8	1516.0	1519.2	1496.4	1418.8	1302.0	1194.6	1077.1
40°	1505.8	1510.5	1543.5	1584.2	1605.4	1616.4	1593.6	1499.6	1375.7	1250.3	1121.7
42.5°	1550.5	1553.7	1588.1	1646.2	1681.4	1692.4	1672.0	1572.5	1438.4	1295.0	1158.6
45°	1580.3	1585.8	1626.6	1686.1	1741.0	1748.8	1738.6	1636.7	1494.1	1337.3	1185.2
47.5°	1606.2	1612.4	1657.9	1733.2	1794.3	1804.5	1795.1	1693.2	1547.4	1375.7	1208.0
50°	1640.7	1647.7	1693.2	1777.1	1844.5	1856.2	1853.1	1752.8	1597.6	1418.8	1231.5
52.5°	1673.6	1679.1	1733.2	1826.4	1899.3	1907.2	1904.8	1808.4	1648.5	1465.1	1261.3
55°	1699.5	1705.7	1770.0	1885.2	1963.6	1972.2	1955.8	1851.5	1688.5	1498.8	1289.5
57°	1686.1	1694.8	1773.1	1895.4	1980.1	1989.5	1968.3	1867.2	1700.2	1508.2	1299.7
57.5°	1682.2	1688.5	1770.0	1894.6	1980.9	1989.5	1968.3	1866.4	1699.5	1507.4	1299.7
60°	1625.0	1639.9	1731.6	1866.4	1958.1	1969.1	1948.7	1835.1	1679.9	1485.5	1278.5
62.5°	1548.2	1568.5	1665.0	1799.8	1903.3	1911.1	1890.7	1782.5	1636.0	1439.2	1234.6
65°	1437.6	1469.0	1570.1	1700.2	1812.3	1821.7	1801.4	1694.8	1563.1	1368.7	1168.8
67.5°	1329.5	1348.3	1456.5	1580.3	1684.6	1698.7	1681.4	1586.6	1462.7	1274.6	1081.0
70°	1206.4	1219.7	1309.1	1430.6	1535.6	1547.4	1532.5	1443.9	1327.1	1157.8	978.3
72.5°	1058.2	1072.3	1148.4	1260.5	1353.8	1372.6	1362.4	1270.7	1164.8	1018.3	863.8
75°	891.3	907.0	975.1	1064.5	1155.4	1166.4	1154.7	1087.2	991.6	859.1	724.3
77.5°	722.7	732.9	782.3	849.7	920.3	943.8	940.7	892.8	796.4	691.4	581.6
80°	540.9	542.4	568.3	624.0	680.4	697.7	701.6	658.5	595.0	515.8	435.8
82.5°	341.8	347.3	361.4	402.9	430.4	453.9	459.4	434.3	394.3	344.9	295.5
85°	159.1	154.4	165.4	179.5	218.7	218.7	225.8	212.4	200.7	184.2	152.9
87.5°	13.3	12.5	12.5	13.3	21.2	22.7	36.1	40.0	43.1	43.1	45.5
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°	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1
2.5°	591.8	591.0	588.7	588.7	590.3	592.6	593.4	594.2	595.0	595.7	595.7
5°	601.2	600.5	598.9	597.3	598.9	599.7	602.0	603.6	603.6	605.2	604.4
7.5°	609.9	610.6	609.1	608.3	608.3	609.9	613.0	615.3	616.9	617.7	619.3
10°	629.5	624.8	618.5	615.3	615.3	618.5	621.6	624.8	627.9	629.5	629.5
12.5°	646.7	641.2	629.5	624.8	624.0	627.1	631.0	635.7	638.1	640.4	640.4
15°	662.4	657.7	643.6	632.6	629.5	631.8	636.5	642.0	645.9	648.3	648.3
17.5°	692.2	678.1	659.2	641.2	634.9	635.7	641.2	646.7	651.4	653.0	652.2
20°	720.4	702.4	674.1	648.3	638.1	634.9	640.4	647.5	651.4	653.8	653.8
22.5°	752.5	732.9	689.0	655.3	636.5	631.8	636.5	642.8	647.5	649.1	650.6
25°	798.0	763.5	705.5	660.8	634.2	624.8	627.9	634.2	639.6	640.4	639.6
27.5°	838.8	799.6	727.4	666.3	628.7	611.4	608.3	613.0	621.6	627.1	628.7
30°	874.0	838.0	750.2	671.0	618.5	589.5	585.6	587.1	592.6	607.5	608.3
32.5°	926.5	870.9	772.9	674.9	606.7	577.7	572.2	570.7	572.2	580.1	580.1
35°	962.6	907.7	795.6	682.0	598.1	568.3	562.8	560.5	558.9	551.1	548.7
37.5°	1009.6	948.5	817.6	688.2	594.2	564.4	556.6	558.1	550.3	528.3	522.1
40°	1061.4	985.3	839.5	694.5	595.7	565.2	558.1	557.3	544.0	513.4	507.2
42.5°	1086.5	1016.7	862.3	703.1	602.0	567.5	561.3	558.9	542.4	508.0	499.3
45°	1110.8	1039.4	878.7	710.2	608.3	570.7	562.8	560.5	541.7	503.3	497.0
47.5°	1132.7	1053.5	886.6	714.1	613.0	573.0	563.6	559.7	537.7	500.9	494.6
50°	1142.9	1061.4	886.6	714.1	614.6	575.4	562.0	556.6	531.5	497.0	491.5
52.5°	1158.6	1066.1	879.5	709.4	612.2	575.4	558.9	550.3	523.6	491.5	486.8
55°	1182.1	1074.7	870.1	702.4	606.7	570.7	553.4	541.7	512.7	483.7	479.7
57°	1189.9	1077.8	863.8	693.7	600.5	564.4	547.1	532.3	502.5	475.8	471.9
57.5°	1188.4	1076.3	861.5	691.4	598.1	562.0	545.6	529.9	500.1	474.2	470.3
60°	1167.2	1061.4	846.6	676.5	585.6	549.5	531.5	514.2	483.7	460.9	457.8
62.5°	1132.7	1027.7	819.9	656.9	568.3	532.3	513.4	493.8	463.3	443.7	442.1
65°	1073.9	971.2	781.5	628.7	546.4	509.5	489.1	468.0	441.3	424.1	419.4
67.5°	975.9	896.0	727.4	589.5	512.7	481.3	459.4	437.4	413.1	398.2	395.1
70°	894.4	813.7	658.5	540.1	471.9	442.1	421.7	400.6	379.4	366.1	365.3
72.5°	790.9	713.3	572.2	479.0	420.2	391.2	375.5	356.7	340.2	328.4	328.4
75°	665.5	604.4	482.9	406.1	358.2	337.1	323.7	308.8	294.7	286.9	288.5
77.5°	529.1	482.9	394.3	328.4	293.2	279.1	266.5	257.9	249.3	242.2	243.0
80°	390.4	355.9	290.0	241.4	224.2	211.6	209.3	203.8	199.1	196.8	192.8
82.5°	267.3	236.7	192.8	165.4	152.9	148.9	149.7	149.7	150.5	150.5	148.9
85°	138.7	127.0	98.0	88.6	87.0	90.9	95.6	98.8	98.0	98.0	95.6
87.5°	40.0	36.1	31.4	28.2	29.8	32.1	28.2	27.4	26.7	25.9	25.9
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)