

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: P472295

Luminaire Tested: **CCP-VA-3-835-U-T4FT**

Issue Date: 01/27/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P472295  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-VA-3-835-U-T4FT  
Description: INVUE CLEARCURVE POLE MOUNT Wave Stream LUMINAIRE WITH T4FT  
DISTRIBUTION LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

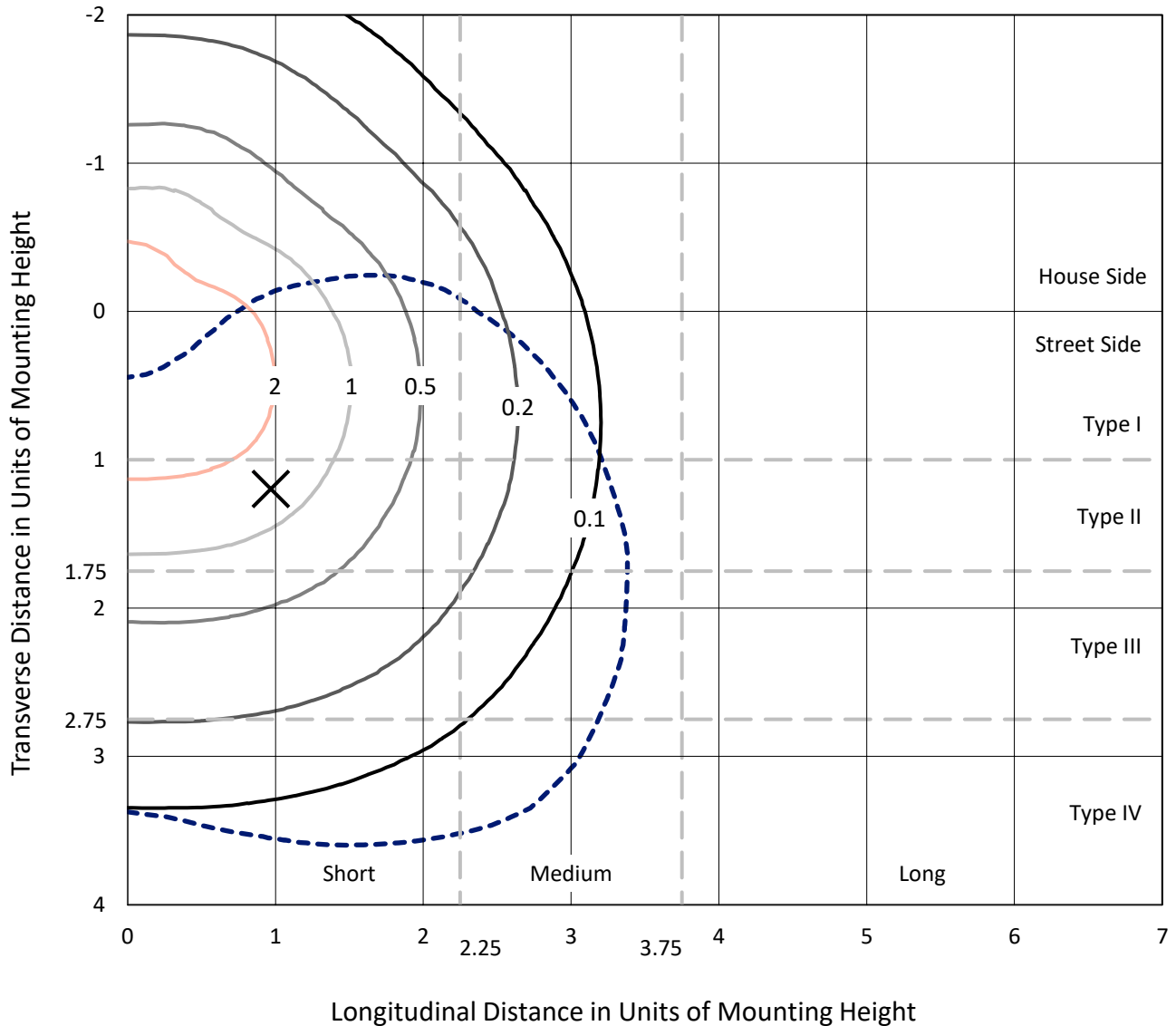
Lumens per Lamp: N/A  
Luminaire Lumens: 4886 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

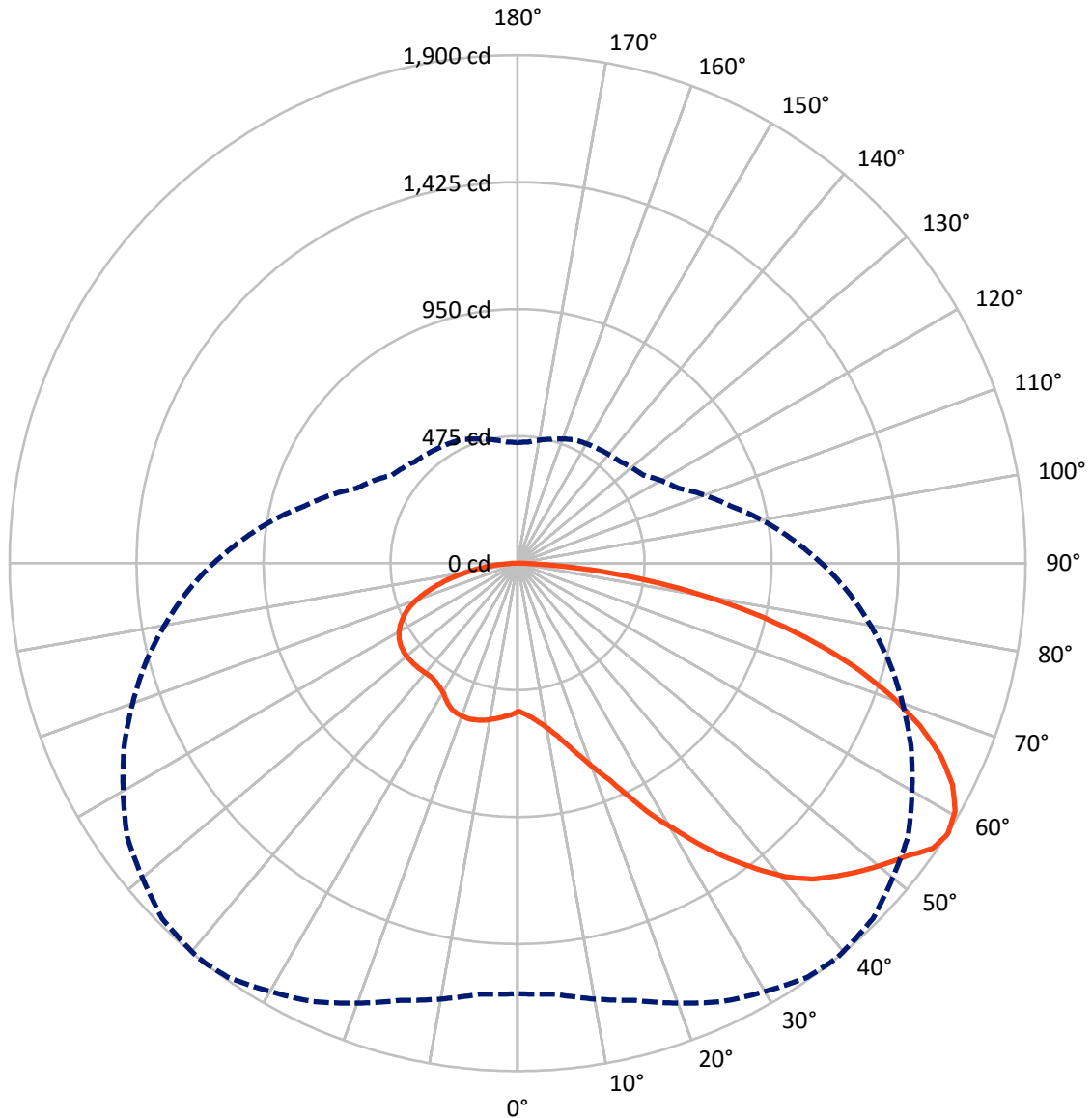
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 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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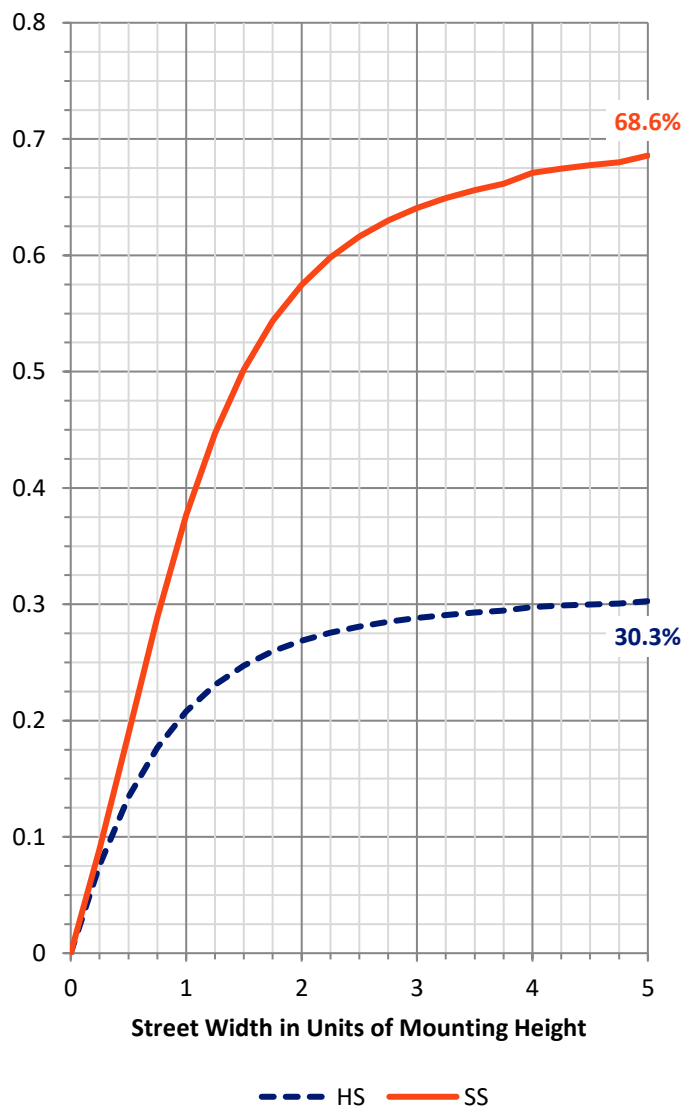
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1499.2	0.0	1499.2
	% Fixture	30.7	0.0	30.7
<b>Street Side</b>	Lumens	3386.8	0.0	3386.8
	% Fixture	69.3	0.0	69.3
<b>Total</b>	Lumens	4886.0	0.0	4886.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.1	1.1
10°-20°	187.1	3.8
20°-30°	361.4	7.4
30°-40°	584.6	12.0
40°-50°	821.3	16.8
50°-60°	1014.5	20.8
60°-70°	1008.4	20.6
70°-80°	682.3	14.0
80°-90°	170.3	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°	4886.0	100.0
0°-180°	4886.0	100.0



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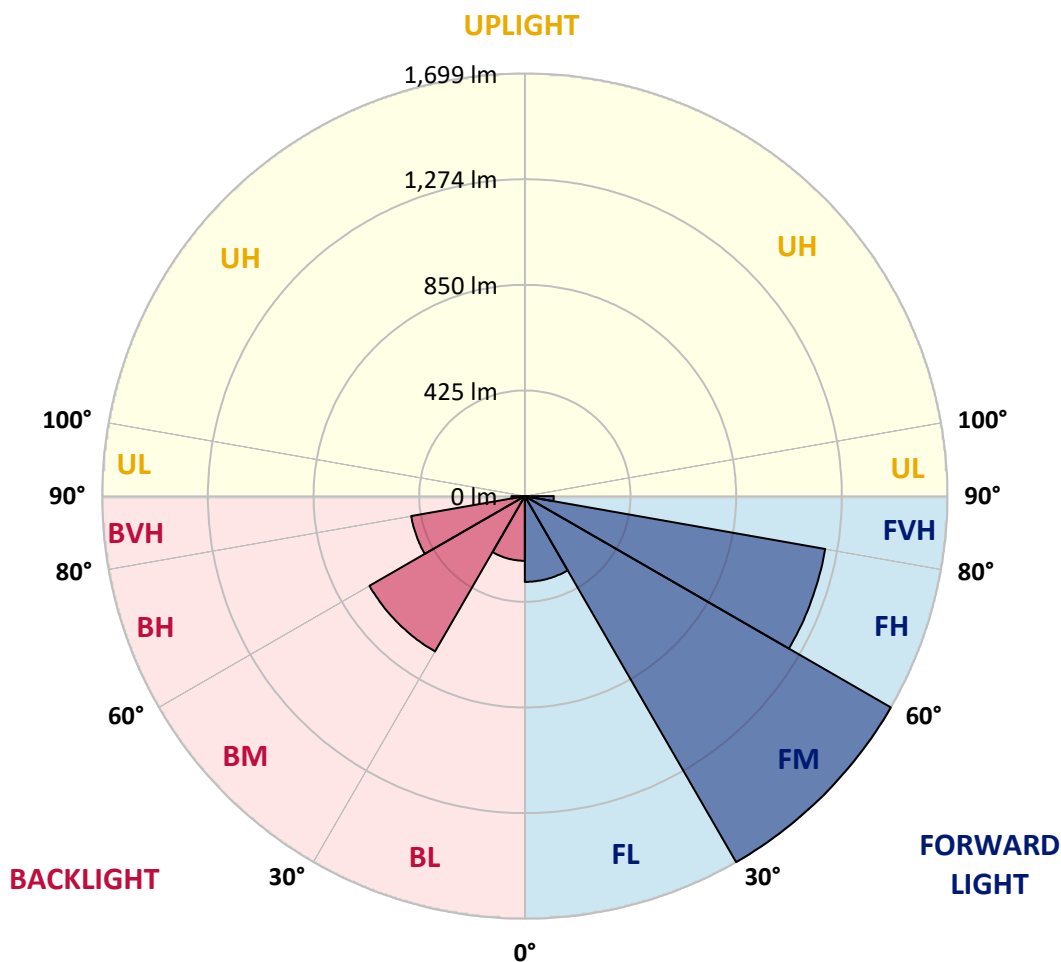
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	344.8	7.1			
FM (30°-60°)	1699.1	34.8			
FH (60°-80°)	1226.4	25.1			G1/1800
FVH (80°-90°)	116.5	2.4			G2/225
BL (0°-30°)	259.8	5.3	B1/500		
BM (30°-60°)	721.3	14.8	B1/1000		
BH (60°-80°)	464.3	9.5	B1/500		G1/500
BVH (80°-90°)	53.8	1.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0
2.5°	570.5	569.8	569.0	569.0	567.5	566.0	565.3	563.8	564.5	566.0	566.8
5°	587.0	585.5	585.5	584.0	581.8	581.8	579.5	576.5	575.8	575.0	575.0
7.5°	612.4	610.2	611.0	608.7	606.5	603.5	599.7	596.0	594.5	589.2	584.7
10°	641.6	640.9	638.7	634.9	632.7	629.7	625.9	619.2	613.9	608.0	604.2
12.5°	676.1	674.6	675.3	672.3	668.6	663.4	657.4	650.6	640.9	629.7	622.2
15°	721.0	718.0	718.0	717.3	709.8	708.3	702.3	687.3	673.8	658.9	641.6
17.5°	775.7	774.9	771.9	768.9	764.4	759.2	753.2	736.7	716.5	693.3	670.1
20°	834.1	832.6	834.8	830.3	821.3	819.1	809.4	790.6	765.9	739.0	703.8
22.5°	897.7	899.2	899.2	897.7	890.2	881.2	873.0	848.3	819.8	786.9	745.7
25°	974.8	975.6	980.1	984.6	980.1	965.8	954.6	916.4	878.2	836.3	787.6
27.5°	1061.7	1056.4	1069.2	1077.4	1069.2	1065.4	1040.7	998.8	946.4	894.0	833.3
30°	1145.5	1145.5	1156.0	1168.0	1162.8	1153.8	1133.6	1079.6	1019.7	953.1	879.7
32.5°	1223.4	1232.4	1236.9	1264.6	1261.6	1257.1	1233.9	1162.8	1087.9	1012.3	924.7
35°	1315.5	1312.5	1331.2	1348.4	1361.9	1355.9	1338.7	1266.8	1168.7	1074.4	974.1
37.5°	1385.1	1391.1	1407.6	1438.3	1448.0	1451.0	1429.3	1355.2	1243.6	1141.0	1028.7
40°	1438.3	1442.8	1474.2	1513.1	1533.4	1543.8	1522.1	1432.3	1314.0	1194.2	1071.4
42.5°	1481.0	1483.9	1516.9	1572.3	1606.0	1616.5	1597.0	1501.9	1373.9	1236.9	1106.6
45°	1509.4	1514.6	1553.6	1610.5	1662.9	1670.4	1660.6	1563.3	1427.0	1277.3	1132.1
47.5°	1534.1	1540.1	1583.5	1655.4	1713.8	1723.5	1714.6	1617.2	1478.0	1314.0	1153.8
50°	1567.1	1573.8	1617.2	1697.3	1761.7	1773.0	1770.0	1674.1	1525.9	1355.2	1176.2
52.5°	1598.5	1603.7	1655.4	1744.5	1814.1	1821.6	1819.4	1727.3	1574.5	1399.3	1204.7
55°	1623.2	1629.2	1690.6	1800.7	1875.5	1883.8	1868.0	1768.5	1612.7	1431.5	1231.6
57°	1610.5	1618.7	1693.6	1810.4	1891.3	1900.2	1880.0	1783.4	1624.0	1440.5	1241.4
57.5°	1606.7	1612.7	1690.6	1809.6	1892.0	1900.2	1880.0	1782.7	1623.2	1439.8	1241.4
60°	1552.1	1566.3	1653.9	1782.7	1870.3	1880.8	1861.3	1752.7	1604.5	1418.8	1221.2
62.5°	1478.7	1498.2	1590.3	1719.0	1817.9	1825.4	1805.9	1702.6	1562.6	1374.6	1179.2
65°	1373.1	1403.1	1499.7	1624.0	1731.0	1740.0	1720.5	1618.7	1492.9	1307.3	1116.3
67.5°	1269.8	1287.8	1391.1	1509.4	1609.0	1622.5	1606.0	1515.4	1397.1	1217.4	1032.5
70°	1152.3	1165.0	1250.4	1366.4	1466.7	1478.0	1463.7	1379.1	1267.6	1105.8	934.4
72.5°	1010.8	1024.2	1096.9	1203.9	1293.0	1311.0	1301.3	1213.7	1112.6	972.6	825.1
75°	851.3	866.3	931.4	1016.8	1103.6	1114.1	1102.9	1038.5	947.1	820.6	691.8
77.5°	690.3	700.0	747.2	811.6	879.0	901.5	898.5	852.8	760.7	660.4	555.5
80°	516.6	518.1	542.8	596.0	649.9	666.4	670.1	628.9	568.3	492.7	416.3
82.5°	326.4	331.7	345.2	384.8	411.0	433.5	438.7	414.8	376.6	329.4	282.3
85°	152.0	147.5	158.0	171.5	208.9	208.9	215.6	202.9	191.7	175.9	146.0
87.5°	12.7	12.0	12.0	12.7	20.2	21.7	34.4	38.2	41.2	41.2	43.4
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°	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0
2.5°	565.3	564.5	562.3	562.3	563.8	566.0	566.8	567.5	568.3	569.0	569.0
5°	574.3	573.5	572.0	570.5	572.0	572.8	575.0	576.5	576.5	578.0	577.3
7.5°	582.5	583.2	581.8	581.0	581.0	582.5	585.5	587.7	589.2	590.0	591.5
10°	601.2	596.7	590.7	587.7	587.7	590.7	593.7	596.7	599.7	601.2	601.2
12.5°	617.7	612.4	601.2	596.7	596.0	599.0	602.7	607.2	609.5	611.7	611.7
15°	632.7	628.2	614.7	604.2	601.2	603.5	608.0	613.2	616.9	619.2	619.2
17.5°	661.1	647.6	629.7	612.4	606.5	607.2	612.4	617.7	622.2	623.7	622.9
20°	688.1	670.8	643.9	619.2	609.5	606.5	611.7	618.4	622.2	624.4	624.4
22.5°	718.8	700.0	658.1	625.9	608.0	603.5	608.0	613.9	618.4	619.9	621.4
25°	762.2	729.2	673.8	631.2	605.7	596.7	599.7	605.7	611.0	611.7	611.0
27.5°	801.1	763.7	694.8	636.4	600.5	584.0	581.0	585.5	593.7	599.0	600.5
30°	834.8	800.4	716.5	640.9	590.7	563.0	559.3	560.8	566.0	580.3	581.0
32.5°	885.0	831.8	738.2	644.6	579.5	551.8	546.6	545.1	546.6	554.0	554.0
35°	919.4	867.0	759.9	651.4	571.3	542.8	537.6	535.3	533.8	526.3	524.1
37.5°	964.3	905.9	780.9	657.4	567.5	539.1	531.6	533.1	525.6	504.6	498.6
40°	1013.8	941.1	801.9	663.4	569.0	539.8	533.1	532.3	519.6	490.4	484.4
42.5°	1037.7	971.1	823.6	671.6	575.0	542.1	536.1	533.8	518.1	485.2	476.9
45°	1060.9	992.8	839.3	678.3	581.0	545.1	537.6	535.3	517.4	480.7	474.7
47.5°	1081.9	1006.3	846.8	682.1	585.5	547.3	538.3	534.6	513.6	478.4	472.4
50°	1091.6	1013.8	846.8	682.1	587.0	549.6	536.8	531.6	507.6	474.7	469.4
52.5°	1106.6	1018.3	840.1	677.6	584.7	549.6	533.8	525.6	500.1	469.4	465.0
55°	1129.1	1026.5	831.1	670.8	579.5	545.1	528.6	517.4	489.7	462.0	458.2
57°	1136.5	1029.5	825.1	662.6	573.5	539.1	522.6	508.4	479.9	454.5	450.7
57.5°	1135.0	1028.0	822.8	660.4	571.3	536.8	521.1	506.1	477.7	453.0	449.2
60°	1114.8	1013.8	808.6	646.1	559.3	524.8	507.6	491.2	462.0	440.2	437.2
62.5°	1081.9	981.6	783.2	627.4	542.8	508.4	490.4	471.7	442.5	423.8	422.3
65°	1025.7	927.7	746.5	600.5	521.9	486.7	467.2	447.0	421.5	405.1	400.6
67.5°	932.1	855.8	694.8	563.0	489.7	459.7	438.7	417.8	394.6	380.3	377.4
70°	854.3	777.2	628.9	515.9	450.7	422.3	402.8	382.6	362.4	349.6	348.9
72.5°	755.5	681.3	546.6	457.5	401.3	373.6	358.6	340.7	324.9	313.7	313.7
75°	635.7	577.3	461.2	387.8	342.2	321.9	309.2	295.0	281.5	274.0	275.5
77.5°	505.4	461.2	376.6	313.7	280.0	266.5	254.6	246.3	238.1	231.4	232.1
80°	372.9	339.9	277.0	230.6	214.1	202.2	199.9	194.7	190.2	187.9	184.2
82.5°	255.3	226.1	184.2	158.0	146.0	142.3	143.0	143.0	143.8	143.8	142.3
85°	132.5	121.3	93.6	84.6	83.1	86.9	91.3	94.3	93.6	93.6	91.3
87.5°	38.2	34.4	29.9	27.0	28.5	30.7	27.0	26.2	25.5	24.7	24.7
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)