

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: P472306

Luminaire Tested: **CCP-VA-2-860-U-T4FT**

Issue Date: 01/27/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P472306  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-VA-2-860-U-T4FT  
Description: INVUE CLEARCURVE POLE MOUNT Wave Stream LUMINAIRE WITH T4FT  
DISTRIBUTION LENS  
Light Source: 5700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

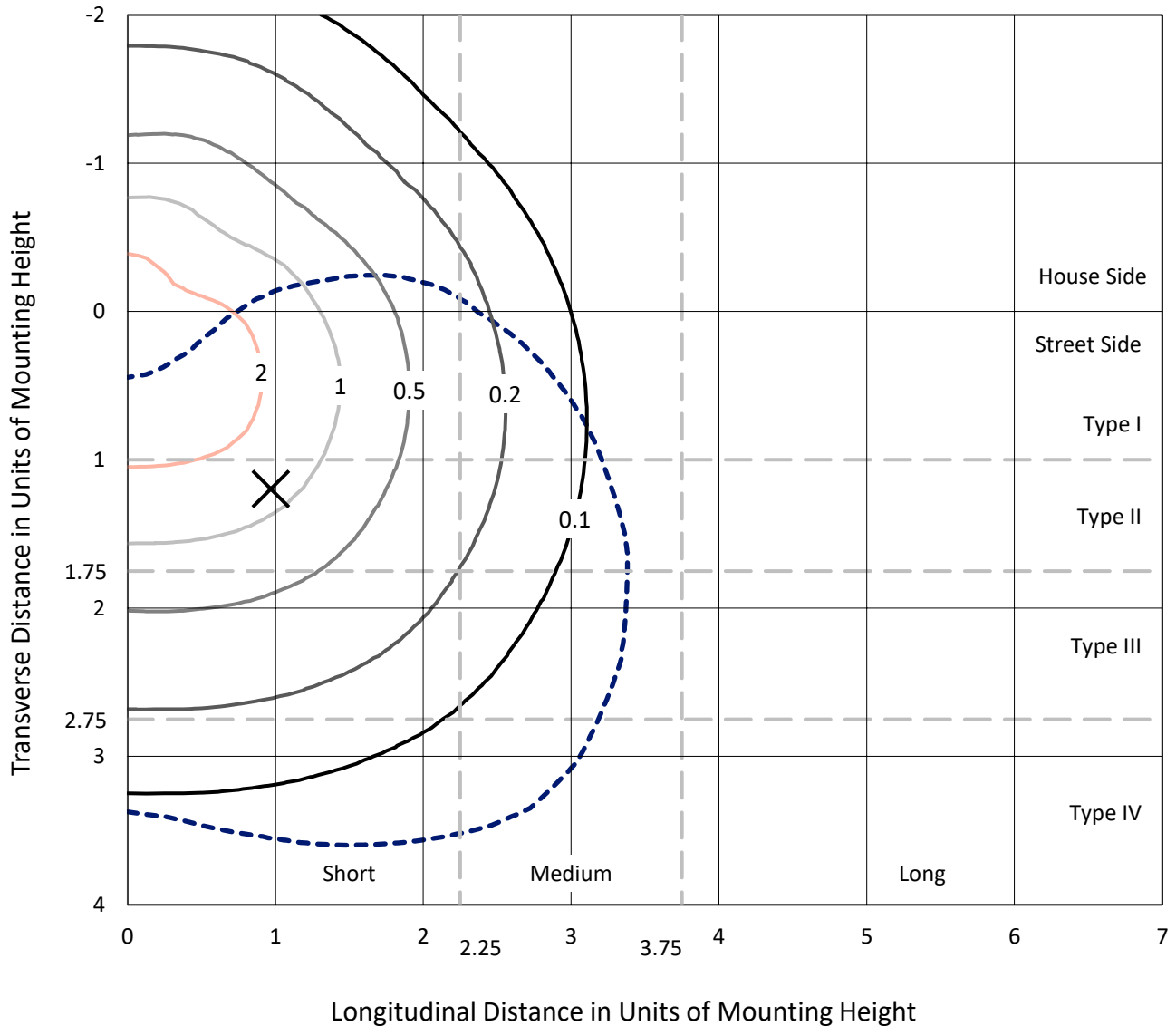
Lumens per Lamp: N/A  
Luminaire Lumens: 4372.5 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 40.7  
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

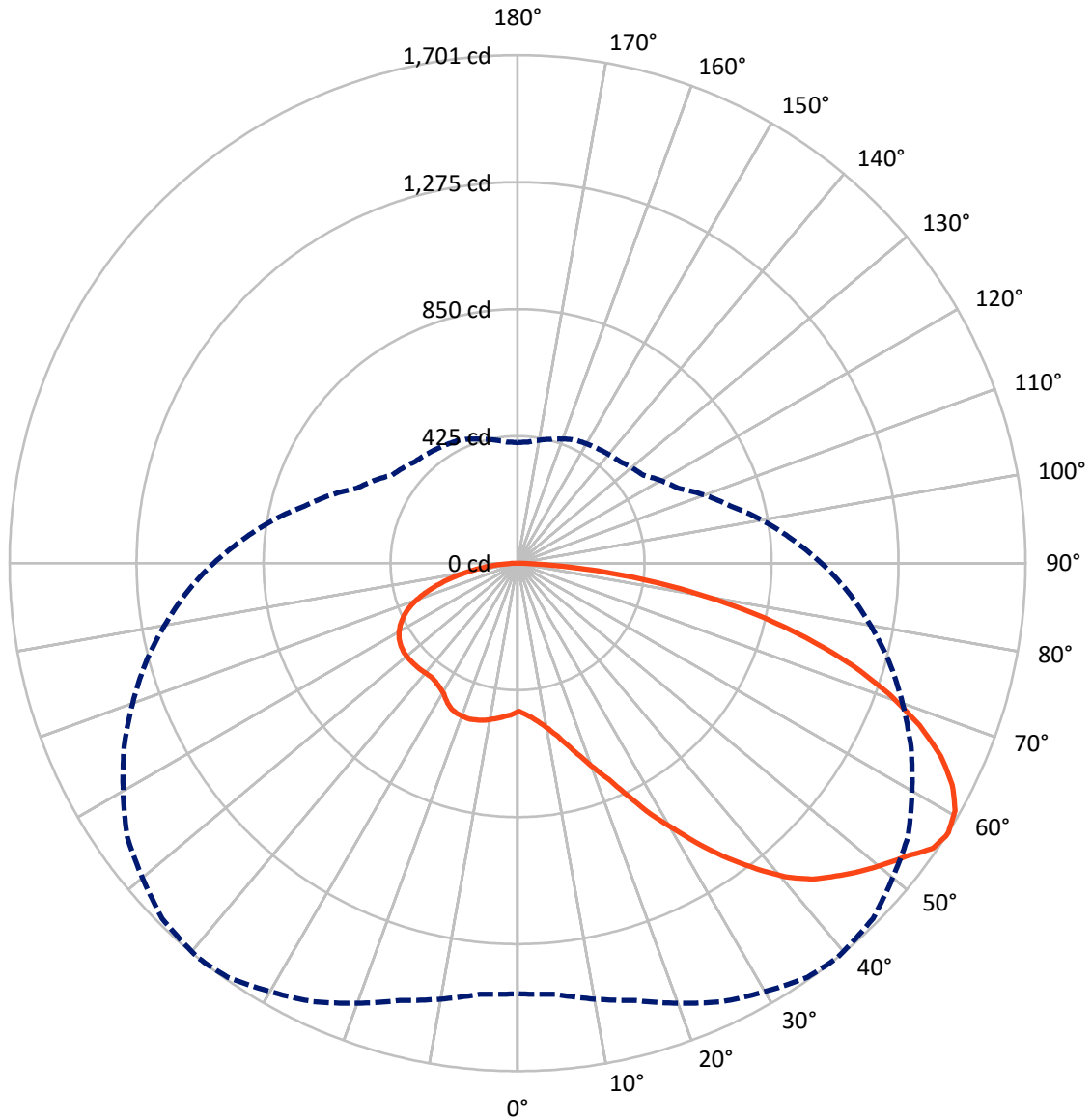
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 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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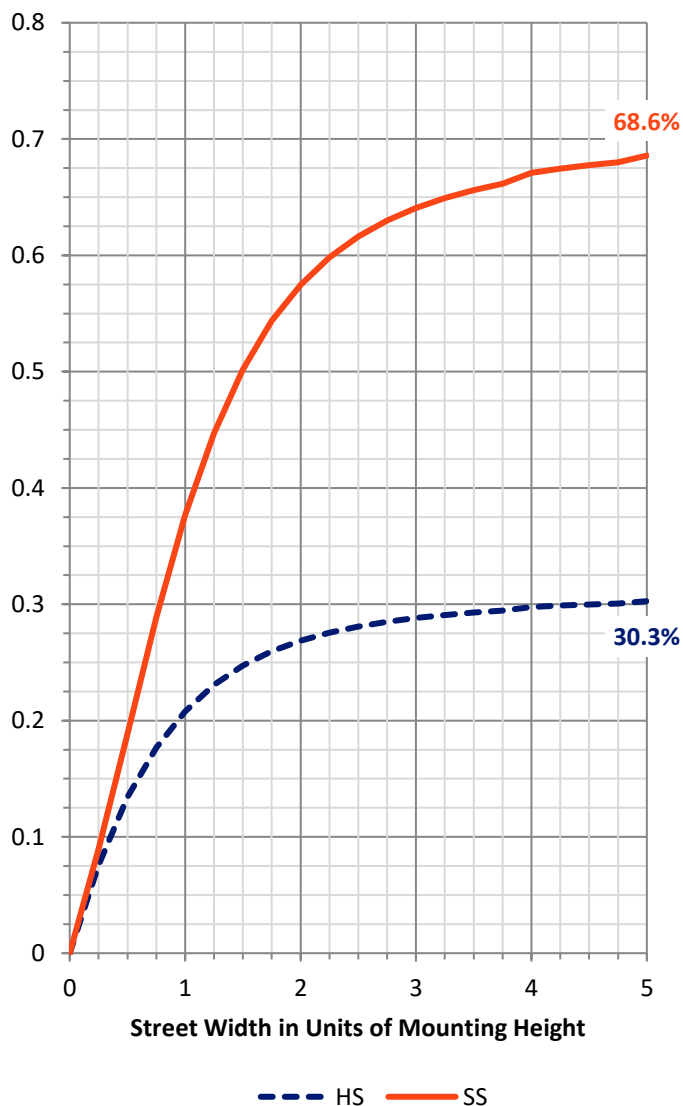
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1341.6	0.0	1341.6
	% Fixture	30.7	0.0	30.7
<b>Street Side</b>	Lumens	3030.8	0.0	3030.8
	% Fixture	69.3	0.0	69.3
<b>Total</b>	Lumens	4372.5	0.0	4372.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.2	1.1
10°-20°	167.4	3.8
20°-30°	323.4	7.4
30°-40°	523.1	12.0
40°-50°	735.0	16.8
50°-60°	907.9	20.8
60°-70°	902.4	20.6
70°-80°	610.6	14.0
80°-90°	152.4	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°	4372.5	100.0
0°-180°	4372.5	100.0



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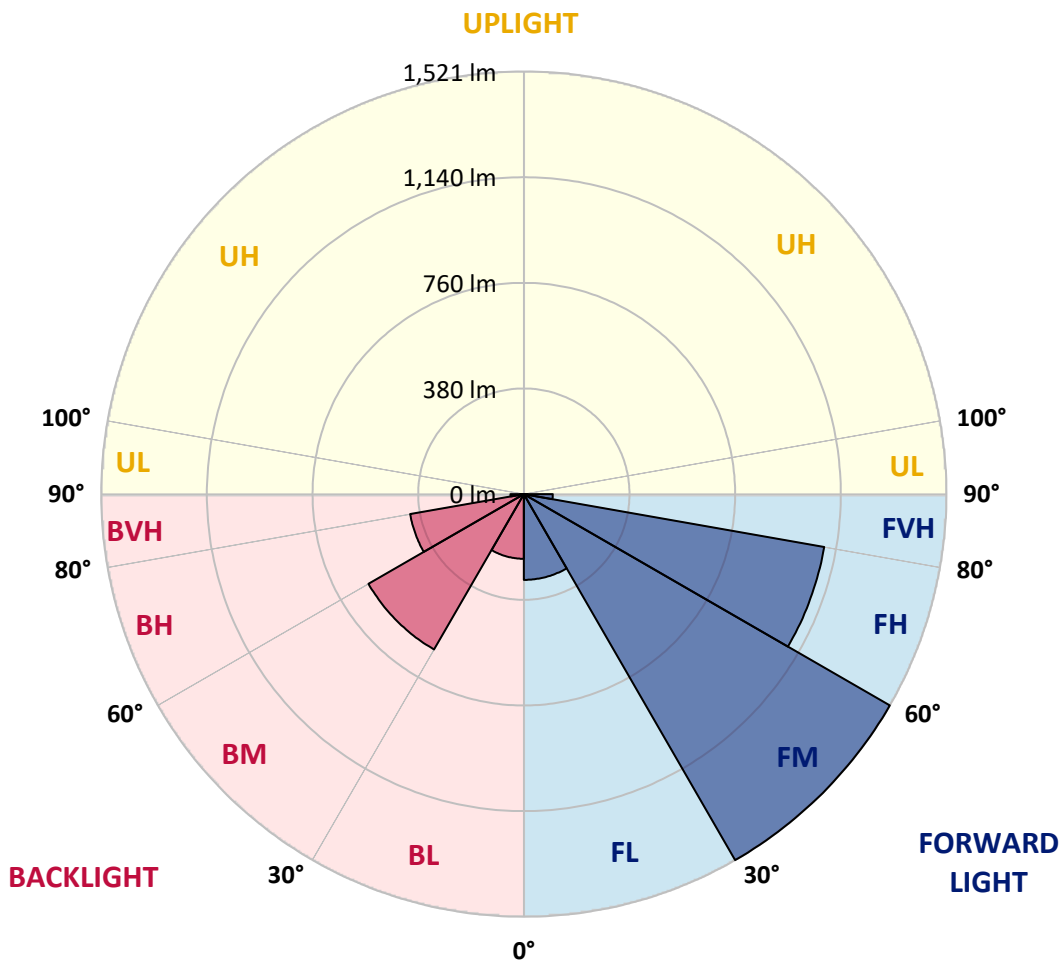
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	308.5	7.1			
FM (30°-60°)	1520.5	34.8			
FH (60°-80°)	1097.5	25.1			G1/1800
FVH (80°-90°)	104.3	2.4			G2/225
BL (0°-30°)	232.5	5.3	B1/500		
BM (30°-60°)	645.5	14.8	B1/1000		
BH (60°-80°)	415.5	9.5	B1/500		G1/500
BVH (80°-90°)	48.1	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°	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8
2.5°	510.6	509.9	509.2	509.2	507.9	506.5	505.9	504.5	505.2	506.5	507.2
5°	525.3	524.0	524.0	522.6	520.6	520.6	518.6	515.9	515.2	514.6	514.6
7.5°	548.1	546.1	546.7	544.7	542.7	540.0	536.7	533.3	532.0	527.3	523.3
10°	574.2	573.5	571.5	568.2	566.2	563.5	560.1	554.1	549.4	544.1	540.7
12.5°	605.0	603.7	604.4	601.7	598.3	593.6	588.3	582.2	573.5	563.5	556.8
15°	645.2	642.5	642.5	641.9	635.2	633.8	628.5	615.1	603.0	589.6	574.2
17.5°	694.1	693.5	690.8	688.1	684.1	679.4	674.0	659.3	641.2	620.4	599.7
20°	746.4	745.1	747.1	743.1	735.0	733.0	724.3	707.5	685.4	661.3	629.8
22.5°	803.4	804.7	804.7	803.4	796.7	788.6	781.2	759.1	733.7	704.2	667.3
25°	872.4	873.0	877.1	881.1	877.1	864.3	854.3	820.1	785.9	748.4	704.9
27.5°	950.1	945.4	956.8	964.2	956.8	953.4	931.3	893.8	846.9	800.0	745.7
30°	1025.1	1025.1	1034.5	1045.2	1040.5	1032.5	1014.4	966.2	912.6	852.9	787.3
32.5°	1094.8	1102.9	1106.9	1131.7	1129.0	1125.0	1104.2	1040.5	973.5	905.9	827.5
35°	1177.2	1174.5	1191.3	1206.7	1218.8	1213.4	1198.0	1133.7	1045.9	961.5	871.7
37.5°	1239.5	1244.9	1259.6	1287.1	1295.8	1298.5	1279.1	1212.7	1112.9	1021.1	920.6
40°	1287.1	1291.1	1319.3	1354.1	1372.2	1381.6	1362.2	1281.7	1175.9	1068.7	958.8
42.5°	1325.3	1328.0	1357.5	1407.0	1437.2	1446.6	1429.2	1344.1	1229.5	1106.9	990.3
45°	1350.8	1355.5	1390.3	1441.2	1488.1	1494.8	1486.1	1399.0	1277.1	1143.1	1013.1
47.5°	1372.9	1378.2	1417.1	1481.4	1533.7	1542.4	1534.3	1447.2	1322.6	1175.9	1032.5
50°	1402.4	1408.4	1447.2	1518.9	1576.6	1586.6	1583.9	1498.2	1365.5	1212.7	1052.6
52.5°	1430.5	1435.2	1481.4	1561.1	1623.5	1630.2	1628.1	1545.7	1409.1	1252.3	1078.1
55°	1452.6	1458.0	1512.9	1611.4	1678.4	1685.8	1671.7	1582.6	1443.2	1281.1	1102.2
57°	1441.2	1448.6	1515.6	1620.1	1692.5	1700.5	1682.4	1596.0	1453.3	1289.1	1110.9
57.5°	1437.9	1443.2	1512.9	1619.4	1693.1	1700.5	1682.4	1595.3	1452.6	1288.4	1110.9
60°	1389.0	1401.7	1480.1	1595.3	1673.7	1683.1	1665.7	1568.5	1435.9	1269.7	1092.8
62.5°	1323.3	1340.7	1423.1	1538.4	1626.8	1633.5	1616.1	1523.6	1398.3	1230.2	1055.3
65°	1228.8	1255.6	1342.1	1453.3	1549.1	1557.1	1539.7	1448.6	1336.0	1169.9	999.0
67.5°	1136.4	1152.4	1244.9	1350.8	1439.9	1451.9	1437.2	1356.1	1250.3	1089.5	924.0
70°	1031.2	1042.6	1118.9	1222.8	1312.6	1322.6	1309.9	1234.2	1134.3	989.6	836.2
72.5°	904.5	916.6	981.6	1077.4	1157.1	1173.2	1164.5	1086.1	995.7	870.4	738.4
75°	761.8	775.2	833.5	909.9	987.6	997.0	986.9	929.3	847.6	734.3	619.1
77.5°	617.8	626.5	668.7	726.3	786.6	806.7	804.0	763.2	680.7	591.0	497.2
80°	462.3	463.7	485.8	533.3	581.6	596.3	599.7	562.8	508.5	440.9	372.5
82.5°	292.1	296.8	308.9	344.4	367.8	387.9	392.6	371.2	337.0	294.8	252.6
85°	136.0	132.0	141.4	153.4	186.9	186.9	193.0	181.6	171.5	157.5	130.7
87.5°	11.4	10.7	10.7	11.4	18.1	19.4	30.8	34.2	36.9	36.9	38.9
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°	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8
2.5°	505.9	505.2	503.2	503.2	504.5	506.5	507.2	507.9	508.5	509.2	509.2
5°	513.9	513.2	511.9	510.6	511.9	512.6	514.6	515.9	515.9	517.3	516.6
7.5°	521.3	521.9	520.6	519.9	519.9	521.3	524.0	526.0	527.3	528.0	529.3
10°	538.0	534.0	528.6	526.0	526.0	528.6	531.3	534.0	536.7	538.0	538.0
12.5°	552.8	548.1	538.0	534.0	533.3	536.0	539.4	543.4	545.4	547.4	547.4
15°	566.2	562.1	550.1	540.7	538.0	540.0	544.1	548.7	552.1	554.1	554.1
17.5°	591.6	579.6	563.5	548.1	542.7	543.4	548.1	552.8	556.8	558.1	557.5
20°	615.7	600.3	576.2	554.1	545.4	542.7	547.4	553.4	556.8	558.8	558.8
22.5°	643.2	626.5	588.9	560.1	544.1	540.0	544.1	549.4	553.4	554.8	556.1
25°	682.1	652.6	603.0	564.8	542.0	534.0	536.7	542.0	546.7	547.4	546.7
27.5°	716.9	683.4	621.8	569.5	537.4	522.6	519.9	524.0	531.3	536.0	537.4
30°	747.1	716.3	641.2	573.5	528.6	503.9	500.5	501.8	506.5	519.3	519.9
32.5°	792.0	744.4	660.6	576.9	518.6	493.8	489.1	487.8	489.1	495.8	495.8
35°	822.8	775.9	680.1	582.9	511.2	485.8	481.1	479.1	477.7	471.0	469.0
37.5°	863.0	810.7	698.8	588.3	507.9	482.4	475.7	477.1	470.4	451.6	446.2
40°	907.2	842.2	717.6	593.6	509.2	483.1	477.1	476.4	465.0	438.9	433.5
42.5°	928.6	869.0	737.0	601.0	514.6	485.1	479.7	477.7	463.7	434.2	426.8
45°	949.4	888.4	751.1	607.0	519.9	487.8	481.1	479.1	463.0	430.2	424.8
47.5°	968.2	900.5	757.8	610.4	524.0	489.8	481.7	478.4	459.6	428.1	422.8
50°	976.9	907.2	757.8	610.4	525.3	491.8	480.4	475.7	454.3	424.8	420.1
52.5°	990.3	911.2	751.8	606.4	523.3	491.8	477.7	470.4	447.6	420.1	416.1
55°	1010.4	918.6	743.7	600.3	518.6	487.8	473.0	463.0	438.2	413.4	410.1
57°	1017.1	921.3	738.4	593.0	513.2	482.4	467.7	454.9	429.5	406.7	403.4
57.5°	1015.8	919.9	736.4	591.0	511.2	480.4	466.3	452.9	427.5	405.4	402.0
60°	997.7	907.2	723.6	578.2	500.5	469.7	454.3	439.5	413.4	394.0	391.3
62.5°	968.2	878.4	700.8	561.5	485.8	454.9	438.9	422.1	396.0	379.2	377.9
65°	917.9	830.2	668.0	537.4	467.0	435.5	418.1	400.0	377.2	362.5	358.5
67.5°	834.2	765.8	621.8	503.9	438.2	411.4	392.6	373.9	353.1	340.4	337.7
70°	764.5	695.5	562.8	461.6	403.4	377.9	360.5	342.4	324.3	312.9	312.2
72.5°	676.1	609.7	489.1	409.4	359.1	334.3	320.9	304.9	290.8	280.7	280.7
75°	568.8	516.6	412.7	347.1	306.2	288.1	276.7	264.0	251.9	245.2	246.6
77.5°	452.3	412.7	337.0	280.7	250.6	238.5	227.8	220.4	213.1	207.0	207.7
80°	333.7	304.2	247.9	206.4	191.6	180.9	178.9	174.2	170.2	168.2	164.8
82.5°	228.5	202.3	164.8	141.4	130.7	127.3	128.0	128.0	128.6	128.6	127.3
85°	118.6	108.5	83.8	75.7	74.4	77.7	81.7	84.4	83.8	83.8	81.7
87.5°	34.2	30.8	26.8	24.1	25.5	27.5	24.1	23.5	22.8	22.1	22.1
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)