

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: P472294

Luminaire Tested: **CCP-VA-2-835-U-T4FT**

Issue Date: 01/27/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P472294  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-VA-2-835-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**

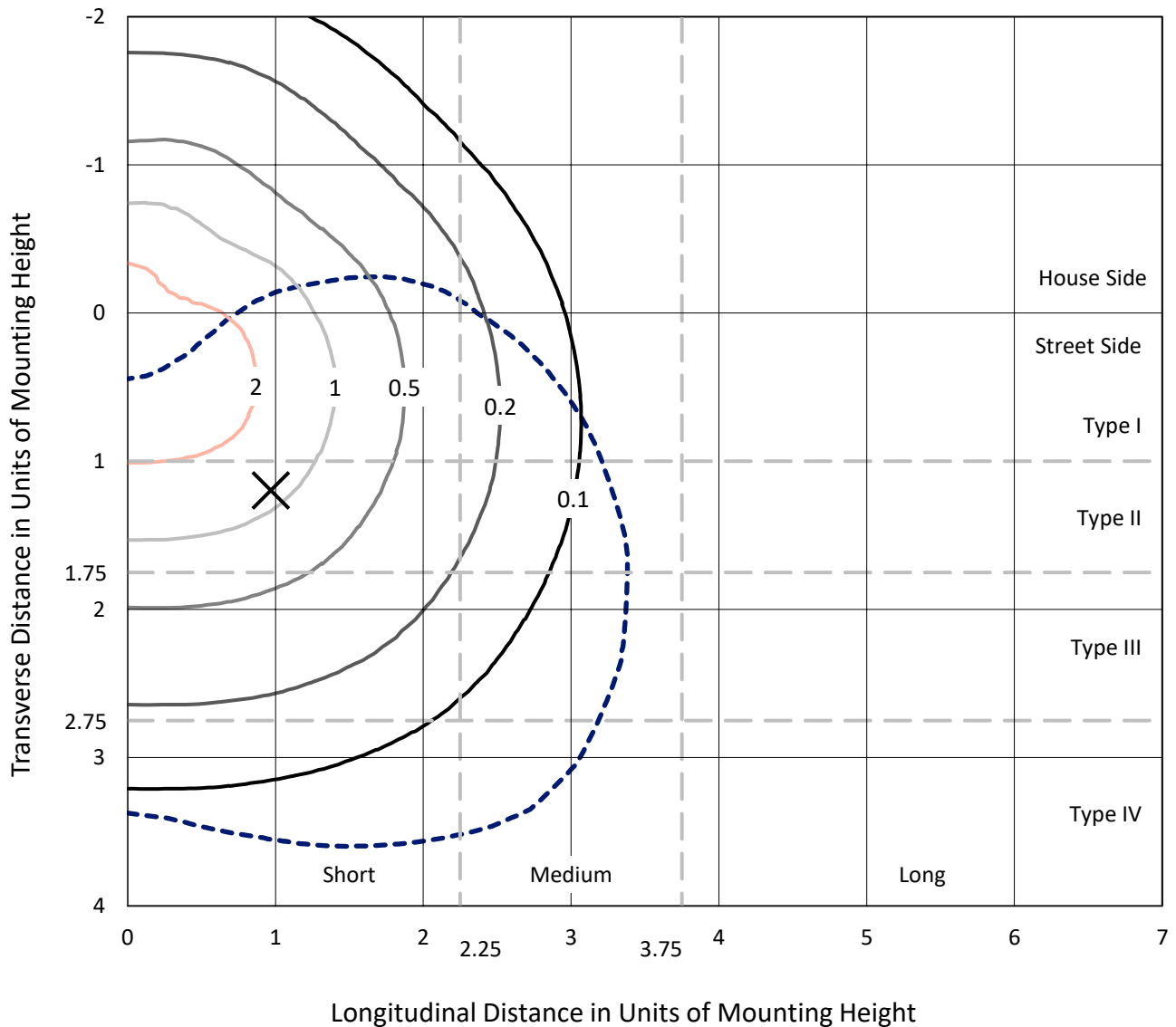
Lumens per Lamp: N/A  
Luminaire Lumens: 4172 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

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

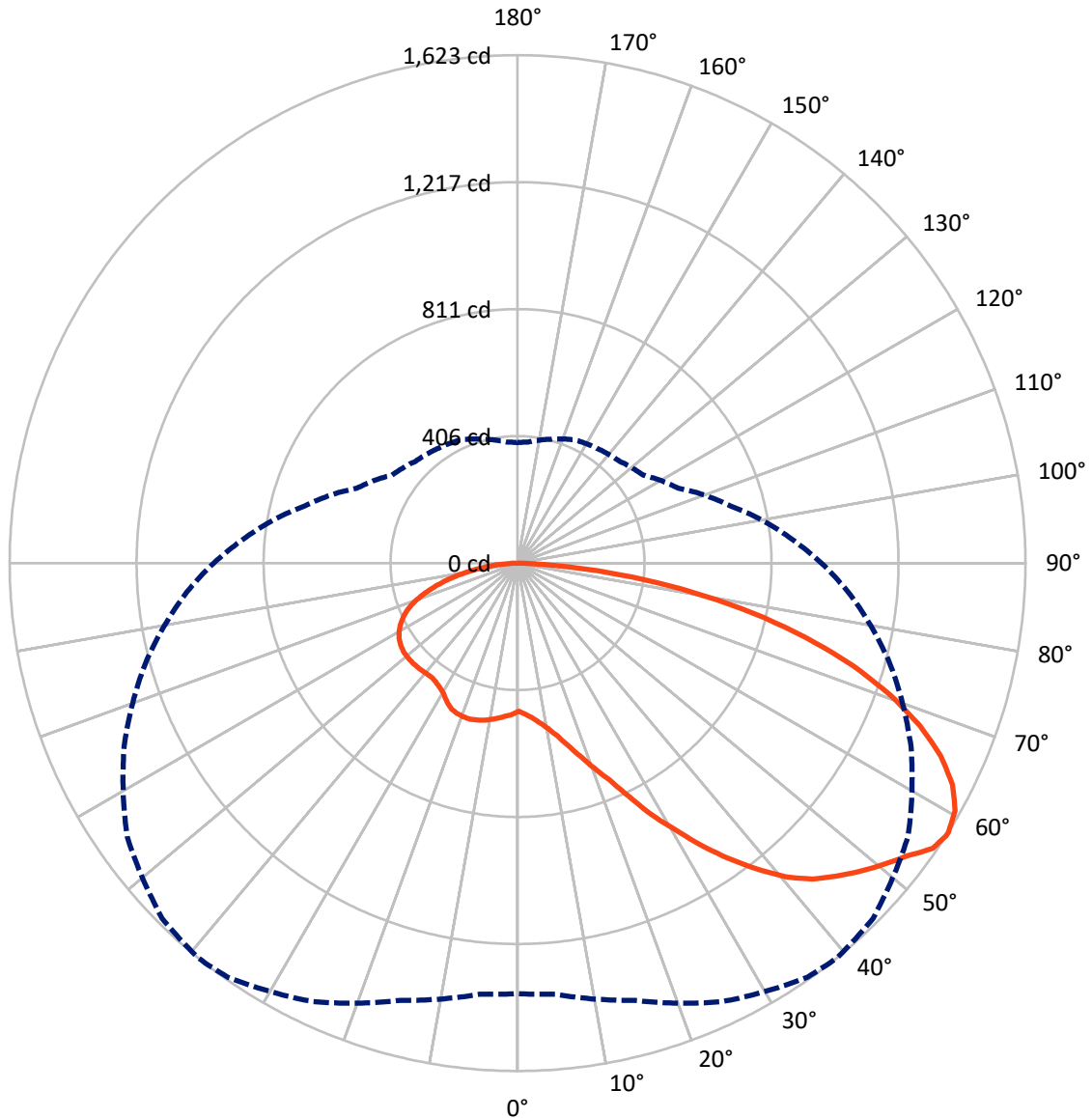
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 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	1280.1	0.0	1280.1
	% Fixture	30.7	0.0	30.7
<b>Street Side</b>	Lumens	2891.9	0.0	2891.9
	% Fixture	69.3	0.0	69.3
<b>Total</b>	Lumens	4172.0	0.0	4172.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.9	1.1
10°-20°	159.8	3.8
20°-30°	308.6	7.4
30°-40°	499.2	12.0
40°-50°	701.3	16.8
50°-60°	866.3	20.8
60°-70°	861.0	20.6
70°-80°	582.6	14.0
80°-90°	145.4	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°	4172.0	100.0
0°-180°	4172.0	100.0



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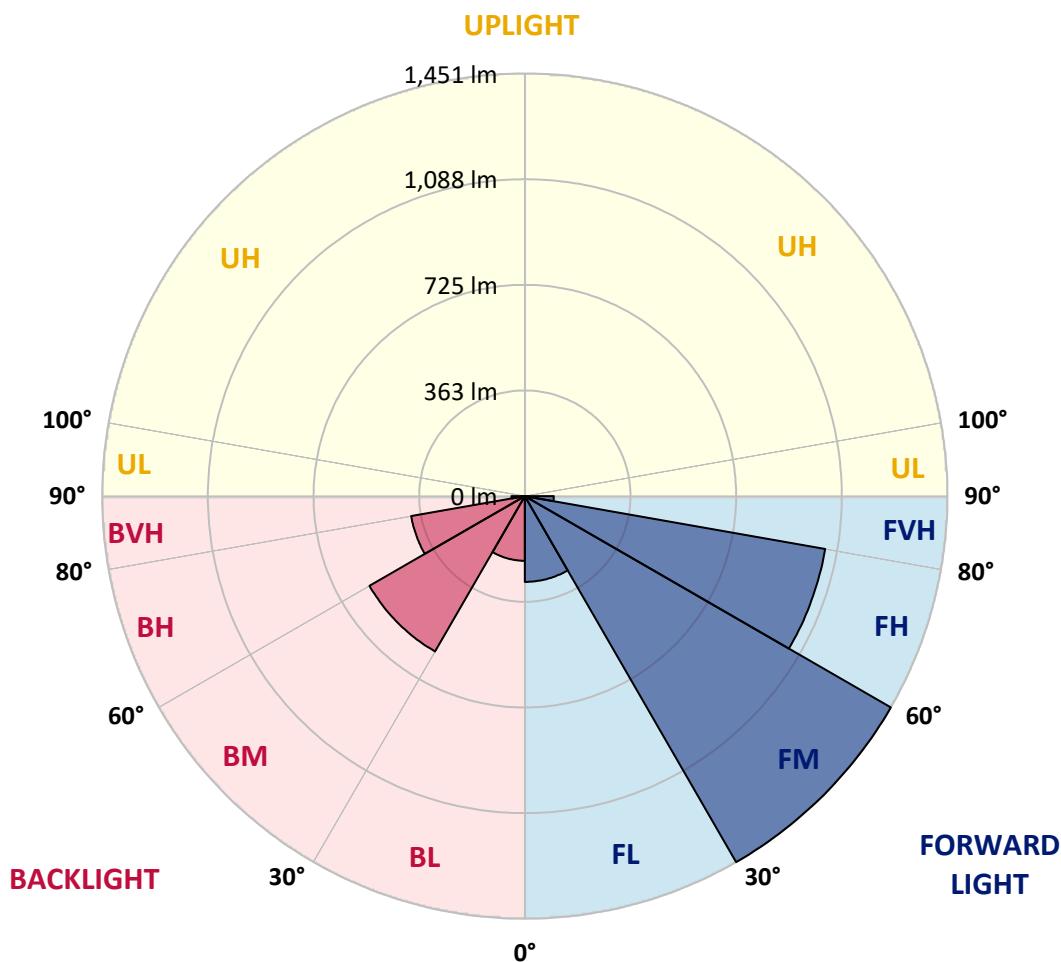
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	294.4	7.1			
FM (30°-60°)	1450.8	34.8			
FH (60°-80°)	1047.2	25.1			G1/1800
FVH (80°-90°)	99.5	2.4			G1/100
BL (0°-30°)	221.9	5.3	B1/500		
BM (30°-60°)	615.9	14.8	B1/1000		
BH (60°-80°)	396.4	9.5	B1/500		G1/500
BVH (80°-90°)	45.9	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1
2.5°	487.1	486.5	485.9	485.9	484.6	483.3	482.7	481.4	482.0	483.3	484.0
5°	501.2	499.9	499.9	498.7	496.7	496.7	494.8	492.3	491.6	491.0	491.0
7.5°	522.9	521.0	521.7	519.8	517.8	515.3	512.1	508.9	507.6	503.1	499.3
10°	547.9	547.2	545.3	542.1	540.2	537.7	534.5	528.7	524.2	519.1	515.9
12.5°	577.3	576.0	576.6	574.1	570.9	566.4	561.3	555.6	547.2	537.7	531.3
15°	615.6	613.1	613.1	612.5	606.1	604.8	599.7	586.9	575.4	562.6	547.9
17.5°	662.3	661.7	659.1	656.6	652.7	648.3	643.1	629.1	611.8	592.0	572.2
20°	712.2	710.9	712.8	709.0	701.3	699.4	691.1	675.1	654.0	631.0	600.9
22.5°	766.5	767.8	767.8	766.5	760.1	752.5	745.4	724.3	700.0	671.9	636.7
25°	832.4	833.0	836.8	840.7	836.8	824.7	815.1	782.5	749.9	714.1	672.5
27.5°	906.5	902.1	912.9	920.0	912.9	909.7	888.6	852.8	808.1	763.3	711.5
30°	978.1	978.1	987.1	997.3	992.8	985.2	967.9	921.9	870.7	813.8	751.2
32.5°	1044.6	1052.3	1056.1	1079.8	1077.2	1073.4	1053.6	992.8	928.9	864.3	789.5
35°	1123.3	1120.7	1136.7	1151.4	1162.9	1157.8	1143.1	1081.7	997.9	917.4	831.7
37.5°	1182.7	1187.8	1201.9	1228.1	1236.4	1239.0	1220.4	1157.1	1061.9	974.3	878.4
40°	1228.1	1231.9	1258.8	1292.0	1309.3	1318.2	1299.7	1223.0	1122.0	1019.7	914.8
42.5°	1264.5	1267.1	1295.2	1342.5	1371.3	1380.3	1363.6	1282.4	1173.1	1056.1	944.9
45°	1288.8	1293.3	1326.6	1375.1	1419.9	1426.3	1418.0	1334.9	1218.5	1090.6	966.6
47.5°	1309.9	1315.0	1352.1	1413.5	1463.4	1471.7	1464.0	1380.9	1262.0	1122.0	985.2
50°	1338.1	1343.8	1380.9	1449.3	1504.3	1513.9	1511.3	1429.5	1302.9	1157.1	1004.3
52.5°	1364.9	1369.4	1413.5	1489.6	1549.0	1555.4	1553.5	1474.9	1344.5	1194.9	1028.6
55°	1386.0	1391.1	1443.5	1537.5	1601.4	1608.5	1595.1	1510.0	1377.1	1222.3	1051.7
57°	1375.1	1382.2	1446.1	1545.8	1614.9	1622.5	1605.3	1522.8	1386.6	1230.0	1060.0
57.5°	1371.9	1377.1	1443.5	1545.2	1615.5	1622.5	1605.3	1522.2	1386.0	1229.4	1060.0
60°	1325.3	1337.4	1412.2	1522.2	1597.0	1605.9	1589.3	1496.6	1370.0	1211.5	1042.7
62.5°	1262.6	1279.2	1357.9	1467.8	1552.2	1558.6	1542.0	1453.8	1334.2	1173.8	1006.9
65°	1172.5	1198.1	1280.5	1386.6	1478.1	1485.7	1469.1	1382.2	1274.8	1116.2	953.2
67.5°	1084.3	1099.6	1187.8	1288.8	1373.9	1385.4	1371.3	1293.9	1192.9	1039.5	881.6
70°	983.9	994.8	1067.6	1166.7	1252.4	1262.0	1249.8	1177.6	1082.3	944.2	797.8
72.5°	863.1	874.6	936.6	1028.0	1104.1	1119.4	1111.1	1036.3	950.0	830.5	704.5
75°	726.9	739.7	795.3	868.2	942.3	951.3	941.7	886.7	808.7	700.7	590.7
77.5°	589.4	597.7	638.0	693.0	750.5	769.7	767.2	728.2	649.5	563.9	474.4
80°	441.1	442.4	463.5	508.9	554.9	569.0	572.2	537.0	485.2	420.7	355.5
82.5°	278.7	283.2	294.7	328.6	351.0	370.2	374.6	354.2	321.6	281.3	241.0
85°	129.8	125.9	134.9	146.4	178.4	178.4	184.1	173.3	163.7	150.2	124.7
87.5°	10.9	10.2	10.2	10.9	17.3	18.5	29.4	32.6	35.2	35.2	37.1
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°	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1
2.5°	482.7	482.0	480.1	480.1	481.4	483.3	484.0	484.6	485.2	485.9	485.9
5°	490.3	489.7	488.4	487.1	488.4	489.1	491.0	492.3	492.3	493.5	492.9
7.5°	497.4	498.0	496.7	496.1	496.1	497.4	499.9	501.9	503.1	503.8	505.0
10°	513.4	509.5	504.4	501.9	501.9	504.4	507.0	509.5	512.1	513.4	513.4
12.5°	527.4	522.9	513.4	509.5	508.9	511.4	514.6	518.5	520.4	522.3	522.3
15°	540.2	536.4	524.9	515.9	513.4	515.3	519.1	523.6	526.8	528.7	528.7
17.5°	564.5	553.0	537.7	522.9	517.8	518.5	522.9	527.4	531.3	532.5	531.9
20°	587.5	572.8	549.8	528.7	520.4	517.8	522.3	528.1	531.3	533.2	533.2
22.5°	613.7	597.7	561.9	534.5	519.1	515.3	519.1	524.2	528.1	529.3	530.6
25°	650.8	622.7	575.4	538.9	517.2	509.5	512.1	517.2	521.7	522.3	521.7
27.5°	684.1	652.1	593.3	543.4	512.7	498.7	496.1	499.9	507.0	511.4	512.7
30°	712.8	683.4	611.8	547.2	504.4	480.8	477.6	478.8	483.3	495.5	496.1
32.5°	755.7	710.3	630.4	550.4	494.8	471.2	466.7	465.4	466.7	473.1	473.1
35°	785.1	740.3	648.9	556.2	487.8	463.5	459.0	457.1	455.8	449.4	447.5
37.5°	823.4	773.6	666.8	561.3	484.6	460.3	453.9	455.2	448.8	430.9	425.8
40°	865.6	803.6	684.7	566.4	485.9	460.9	455.2	454.5	443.7	418.7	413.6
42.5°	886.1	829.2	703.2	573.5	491.0	462.9	457.7	455.8	442.4	414.3	407.2
45°	905.9	847.7	716.7	579.2	496.1	465.4	459.0	457.1	441.8	410.4	405.3
47.5°	923.8	859.2	723.0	582.4	499.9	467.3	459.7	456.5	438.6	408.5	403.4
50°	932.1	865.6	723.0	582.4	501.2	469.2	458.4	453.9	433.4	405.3	400.8
52.5°	944.9	869.4	717.3	578.6	499.3	469.2	455.8	448.8	427.1	400.8	397.0
55°	964.1	876.5	709.6	572.8	494.8	465.4	451.3	441.8	418.1	394.4	391.3
57°	970.5	879.0	704.5	565.8	489.7	460.3	446.2	434.1	409.8	388.1	384.9
57.5°	969.2	877.8	702.6	563.9	487.8	458.4	445.0	432.2	407.9	386.8	383.6
60°	951.9	865.6	690.4	551.7	477.6	448.2	433.4	419.4	394.4	375.9	373.4
62.5°	923.8	838.1	668.7	535.7	463.5	434.1	418.7	402.8	377.8	361.8	360.6
65°	875.8	792.1	637.4	512.7	445.6	415.5	398.9	381.7	359.9	345.9	342.0
67.5°	795.9	730.7	593.3	480.8	418.1	392.5	374.6	356.7	336.9	324.8	322.2
70°	729.4	663.6	537.0	440.5	384.9	360.6	343.9	326.7	309.4	298.6	297.9
72.5°	645.1	581.8	466.7	390.6	342.7	319.0	306.2	290.9	277.5	267.9	267.9
75°	542.8	492.9	393.8	331.2	292.2	274.9	264.0	251.9	240.4	234.0	235.3
77.5°	431.5	393.8	321.6	267.9	239.1	227.6	217.4	210.3	203.3	197.5	198.2
80°	318.4	290.2	236.5	196.9	182.8	172.6	170.7	166.2	162.4	160.5	157.3
82.5°	218.0	193.1	157.3	134.9	124.7	121.5	122.1	122.1	122.7	122.7	121.5
85°	113.2	103.6	79.9	72.2	71.0	74.2	78.0	80.6	79.9	79.9	78.0
87.5°	32.6	29.4	25.6	23.0	24.3	26.2	23.0	22.4	21.7	21.1	21.1
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)