

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: P472261

Luminaire Tested: **CCW-VA-1-727-U-T4FT**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472261
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-1-727-U-T4FT
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4FT DISTRIBUTION LENS
Light Source: 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3045.4 lumens
Efficiency: N/A
Efficacy: 100.5 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): 30.3
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

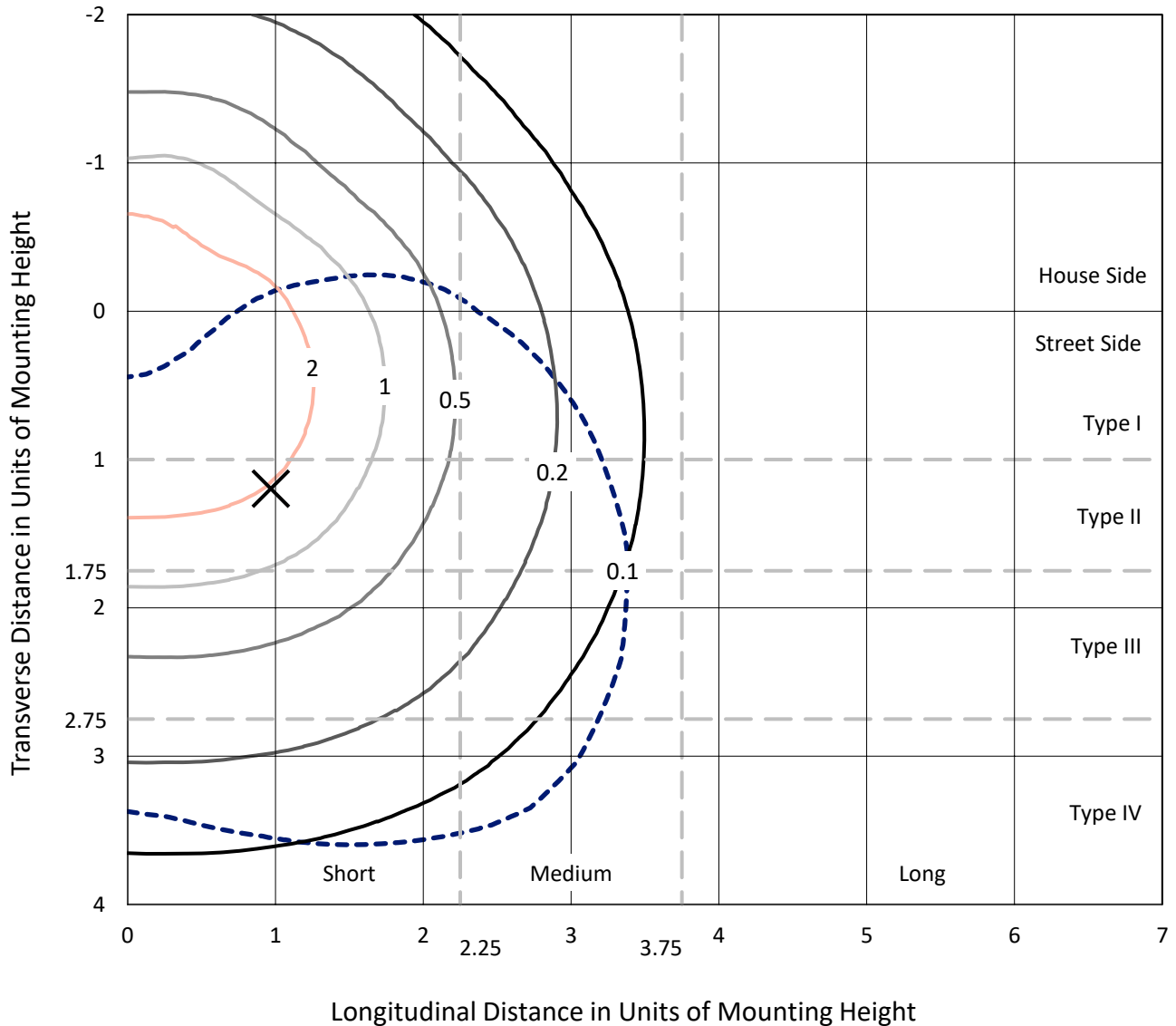




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Iso-Footcandle Lines of Horizontal Illumination

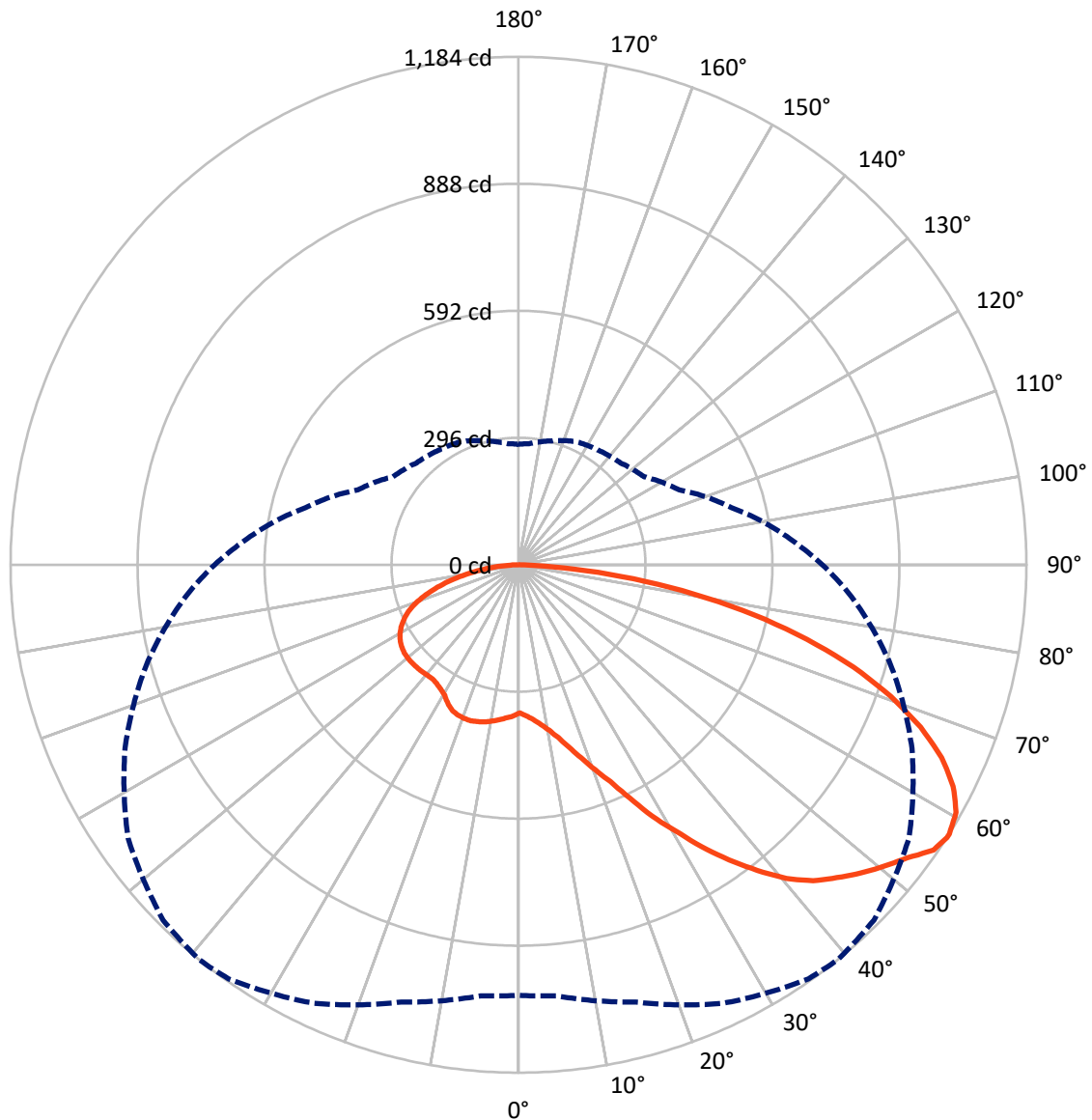
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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CATALOG NUMBER: CCW-VA-1-727-U-T4FT

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
House Side	Lumens	934.4	0.0	934.4
	% Fixture	30.7	0.0	30.7
Street Side	Lumens	2111.0	0.0	2111.0
	% Fixture	69.3	0.0	69.3
Total	Lumens	3045.4	0.0	3045.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.0	1.1
10°-20°	116.6	3.8
20°-30°	225.3	7.4
30°-40°	364.4	12.0
40°-50°	511.9	16.8
50°-60°	632.4	20.8
60°-70°	628.5	20.6
70°-80°	425.3	14.0
80°-90°	106.1	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°	3045.4	100.0
0°-180°	3045.4	100.0

Coefficient of Utilization



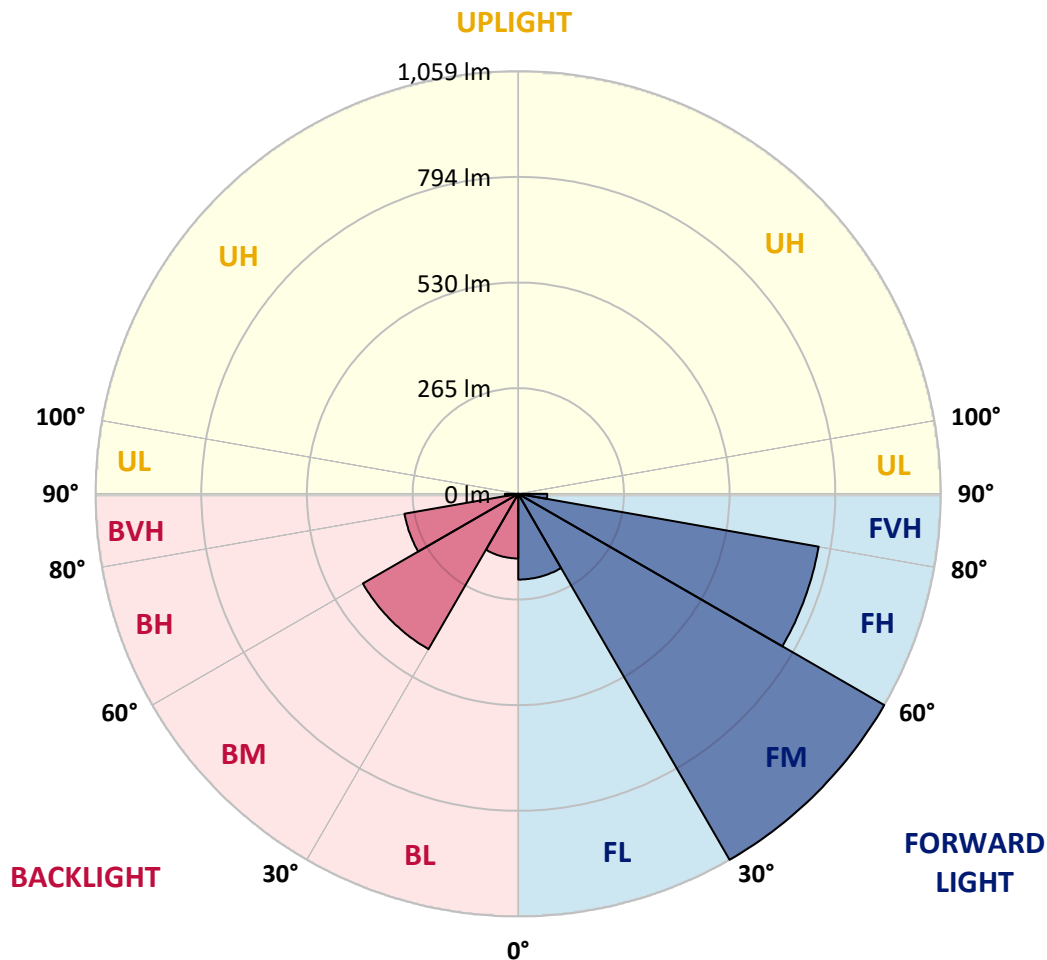
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	214.9	7.1			
FM (30°-60°)	1059.0	34.8			
FH (60°-80°)	764.4	25.1			G1/1800
FVH (80°-90°)	72.6	2.4			G1/100
BL (0°-30°)	162.0	5.3	B1/500		
BM (30°-60°)	449.6	14.8	B1/1000		
BH (60°-80°)	289.4	9.5	B1/500		G1/500
BVH (80°-90°)	33.5	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





REPORT NUMBER: P472261
 CATALOG NUMBER: CCW-VA-1-727-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	345.3	345.3	345.3	345.3	345.3	345.3	345.3	345.3	345.3	345.3	345.3
2.5°	355.6	355.1	354.7	354.7	353.7	352.8	352.3	351.4	351.9	352.8	353.3
5°	365.9	364.9	364.9	364.0	362.6	362.6	361.2	359.3	358.9	358.4	358.4
7.5°	381.7	380.3	380.8	379.4	378.0	376.1	373.8	371.5	370.5	367.3	364.5
10°	399.9	399.5	398.1	395.7	394.3	392.5	390.1	385.9	382.7	378.9	376.6
12.5°	421.4	420.5	420.9	419.1	416.7	413.5	409.7	405.5	399.5	392.5	387.8
15°	449.4	447.5	447.5	447.1	442.4	441.5	437.7	428.4	420.0	410.7	399.9
17.5°	483.5	483.0	481.1	479.3	476.5	473.2	469.5	459.2	446.6	432.1	417.7
20°	519.9	518.9	520.3	517.5	511.9	510.5	504.5	492.8	477.4	460.6	438.7
22.5°	559.5	560.5	560.5	559.5	554.9	549.3	544.1	528.7	511.0	490.5	464.8
25°	607.6	608.1	610.9	613.7	610.9	602.0	595.0	571.2	547.4	521.3	490.9
27.5°	661.7	658.5	666.4	671.5	666.4	664.1	648.7	622.5	589.9	557.2	519.4
30°	714.0	714.0	720.5	728.0	724.7	719.1	706.5	672.9	635.6	594.1	548.3
32.5°	762.5	768.1	770.9	788.2	786.3	783.5	769.1	724.7	678.1	630.9	576.3
35°	819.9	818.1	829.7	840.5	848.9	845.1	834.4	789.6	728.5	669.7	607.1
37.5°	863.3	867.1	877.3	896.5	902.5	904.4	890.9	844.7	775.1	711.2	641.2
40°	896.5	899.3	918.9	943.1	955.7	962.3	948.7	892.7	819.0	744.3	667.8
42.5°	923.1	924.9	945.5	980.0	1001.0	1007.5	995.4	936.1	856.3	770.9	689.7
45°	940.8	944.1	968.3	1003.8	1036.5	1041.1	1035.1	974.4	889.5	796.1	705.6
47.5°	956.2	959.9	987.0	1031.8	1068.2	1074.3	1068.7	1008.0	921.2	819.0	719.1
50°	976.7	980.9	1008.0	1057.9	1098.1	1105.1	1103.2	1043.5	951.1	844.7	733.1
52.5°	996.3	999.6	1031.8	1087.3	1130.7	1135.4	1134.0	1076.6	981.4	872.2	750.9
55°	1011.7	1015.5	1053.7	1122.3	1169.0	1174.1	1164.3	1102.3	1005.2	892.3	767.7
57°	1003.8	1008.9	1055.6	1128.4	1178.8	1184.4	1171.8	1111.6	1012.2	897.9	773.7
57.5°	1001.5	1005.2	1053.7	1127.9	1179.3	1184.4	1171.8	1111.1	1011.7	897.4	773.7
60°	967.4	976.3	1030.9	1111.1	1165.7	1172.3	1160.1	1092.5	1000.1	884.3	761.1
62.5°	921.7	933.8	991.2	1071.5	1133.1	1137.7	1125.6	1061.2	973.9	856.8	735.0
65°	855.9	874.5	934.7	1012.2	1078.9	1084.5	1072.4	1008.9	930.5	814.8	695.8
67.5°	791.5	802.7	867.1	940.8	1002.9	1011.3	1001.0	944.5	870.8	758.8	643.5
70°	718.2	726.1	779.3	851.7	914.2	921.2	912.3	859.6	790.1	689.3	582.4
72.5°	630.0	638.4	683.7	750.4	805.9	817.1	811.1	756.5	693.5	606.2	514.3
75°	530.6	539.9	580.5	633.7	687.9	694.4	687.4	647.3	590.3	511.5	431.2
77.5°	430.3	436.3	465.7	505.9	547.9	561.9	560.0	531.5	474.1	411.6	346.3
80°	322.0	322.9	338.3	371.5	405.1	415.3	417.7	392.0	354.2	307.1	259.5
82.5°	203.5	206.7	215.1	239.9	256.2	270.2	273.5	258.5	234.7	205.3	175.9
85°	94.7	91.9	98.5	106.9	130.2	130.2	134.4	126.5	119.5	109.7	91.0
87.5°	7.9	7.5	7.5	7.9	12.6	13.5	21.5	23.8	25.7	25.7	27.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P472261
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	345.3	345.3	345.3	345.3	345.3	345.3	345.3	345.3	345.3	345.3	345.3
2.5°	352.3	351.9	350.5	350.5	351.4	352.8	353.3	353.7	354.2	354.7	354.7
5°	357.9	357.5	356.5	355.6	356.5	357.0	358.4	359.3	359.3	360.3	359.8
7.5°	363.1	363.5	362.6	362.1	362.1	363.1	364.9	366.3	367.3	367.7	368.7
10°	374.7	371.9	368.2	366.3	366.3	368.2	370.1	371.9	373.8	374.7	374.7
12.5°	385.0	381.7	374.7	371.9	371.5	373.3	375.7	378.5	379.9	381.3	381.3
15°	394.3	391.5	383.1	376.6	374.7	376.1	378.9	382.2	384.5	385.9	385.9
17.5°	412.1	403.7	392.5	381.7	378.0	378.5	381.7	385.0	387.8	388.7	388.3
20°	428.9	418.1	401.3	385.9	379.9	378.0	381.3	385.5	387.8	389.2	389.2
22.5°	448.0	436.3	410.2	390.1	378.9	376.1	378.9	382.7	385.5	386.4	387.3
25°	475.1	454.5	420.0	393.4	377.5	371.9	373.8	377.5	380.8	381.3	380.8
27.5°	499.3	476.0	433.1	396.7	374.3	364.0	362.1	364.9	370.1	373.3	374.3
30°	520.3	498.9	446.6	399.5	368.2	350.9	348.6	349.5	352.8	361.7	362.1
32.5°	551.6	518.5	460.1	401.8	361.2	343.9	340.7	339.7	340.7	345.3	345.3
35°	573.1	540.4	473.7	406.0	356.1	338.3	335.1	333.7	332.7	328.1	326.7
37.5°	601.1	564.7	486.7	409.7	353.7	336.0	331.3	332.3	327.6	314.5	310.8
40°	631.9	586.6	499.8	413.5	354.7	336.5	332.3	331.8	323.9	305.7	301.9
42.5°	646.8	605.3	513.3	418.6	358.4	337.9	334.1	332.7	322.9	302.4	297.3
45°	661.3	618.8	523.1	422.8	362.1	339.7	335.1	333.7	322.5	299.6	295.9
47.5°	674.3	627.2	527.8	425.1	364.9	341.1	335.5	333.2	320.1	298.2	294.5
50°	680.4	631.9	527.8	425.1	365.9	342.5	334.6	331.3	316.4	295.9	292.6
52.5°	689.7	634.7	523.6	422.3	364.5	342.5	332.7	327.6	311.7	292.6	289.8
55°	703.7	639.8	518.0	418.1	361.2	339.7	329.5	322.5	305.2	287.9	285.6
57°	708.4	641.7	514.3	413.0	357.5	336.0	325.7	316.9	299.1	283.3	280.9
57.5°	707.5	640.7	512.9	411.6	356.1	334.6	324.8	315.5	297.7	282.3	280.0
60°	694.9	631.9	504.0	402.7	348.6	327.1	316.4	306.1	287.9	274.4	272.5
62.5°	674.3	611.8	488.1	391.1	338.3	316.9	305.7	294.0	275.8	264.1	263.2
65°	639.3	578.2	465.3	374.3	325.3	303.3	291.2	278.6	262.7	252.5	249.7
67.5°	581.0	533.4	433.1	350.9	305.2	286.5	273.5	260.4	245.9	237.1	235.2
70°	532.5	484.4	392.0	321.5	280.9	263.2	251.1	238.5	225.9	217.9	217.5
72.5°	470.9	424.7	340.7	285.1	250.1	232.9	223.5	212.3	202.5	195.5	195.5
75°	396.2	359.8	287.5	241.7	213.3	200.7	192.7	183.9	175.5	170.8	171.7
77.5°	315.0	287.5	234.7	195.5	174.5	166.1	158.7	153.5	148.4	144.2	144.7
80°	232.4	211.9	172.7	143.7	133.5	126.0	124.6	121.3	118.5	117.1	114.8
82.5°	159.1	140.9	114.8	98.5	91.0	88.7	89.1	89.1	89.6	89.6	88.7
85°	82.6	75.6	58.3	52.7	51.8	54.1	56.9	58.8	58.3	58.3	56.9
87.5°	23.8	21.5	18.7	16.8	17.7	19.1	16.8	16.3	15.9	15.4	15.4
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)