

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: P472293

Luminaire Tested: **CCW-VA-1-835-U-T4FT**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472293
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-1-835-U-T4FT
Description: INVUE WALL PACK 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: 3085.7 lumens
Efficiency: N/A
Efficacy: 101.8 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

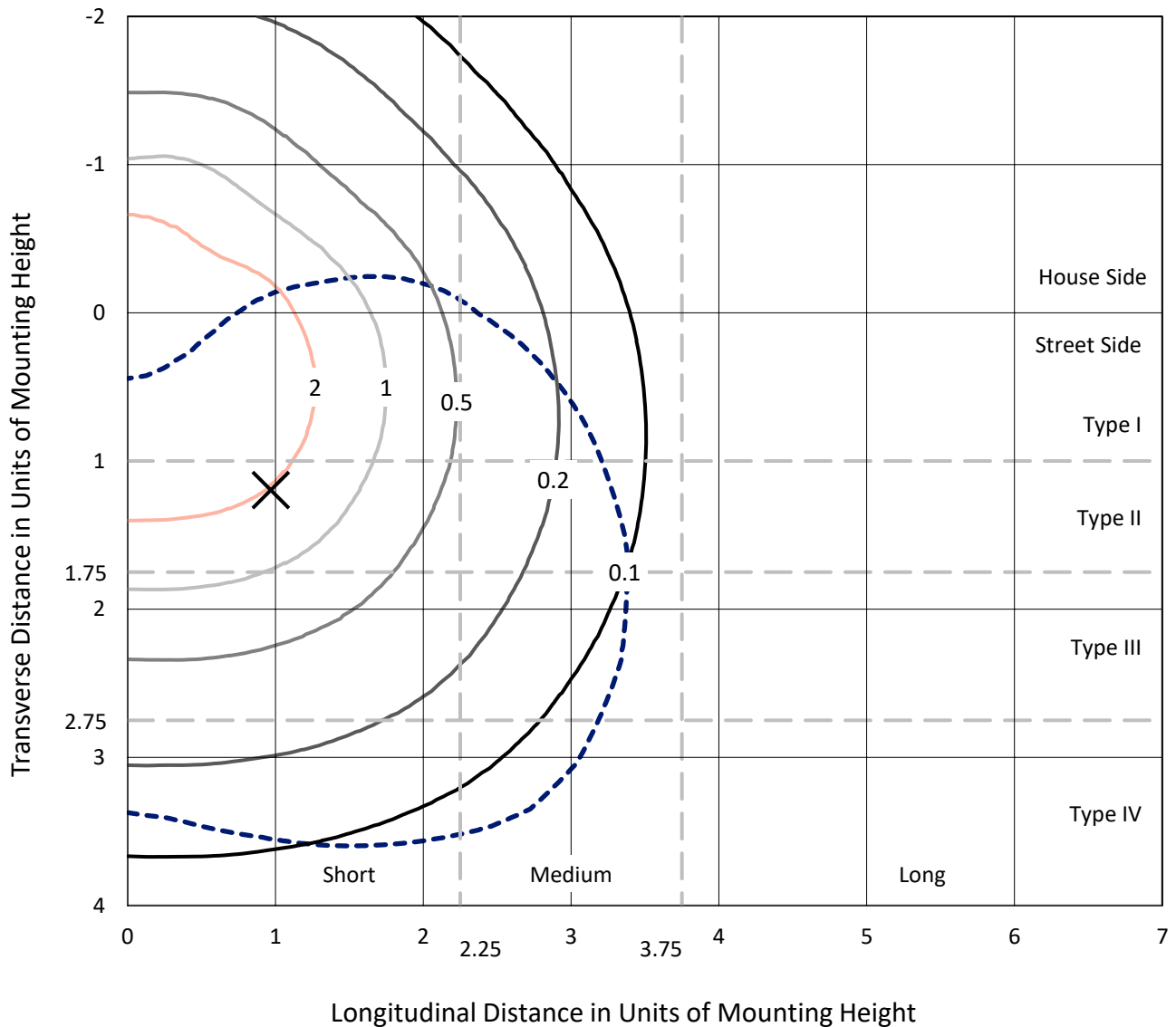




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Iso-Footcandle Lines of Horizontal Illumination

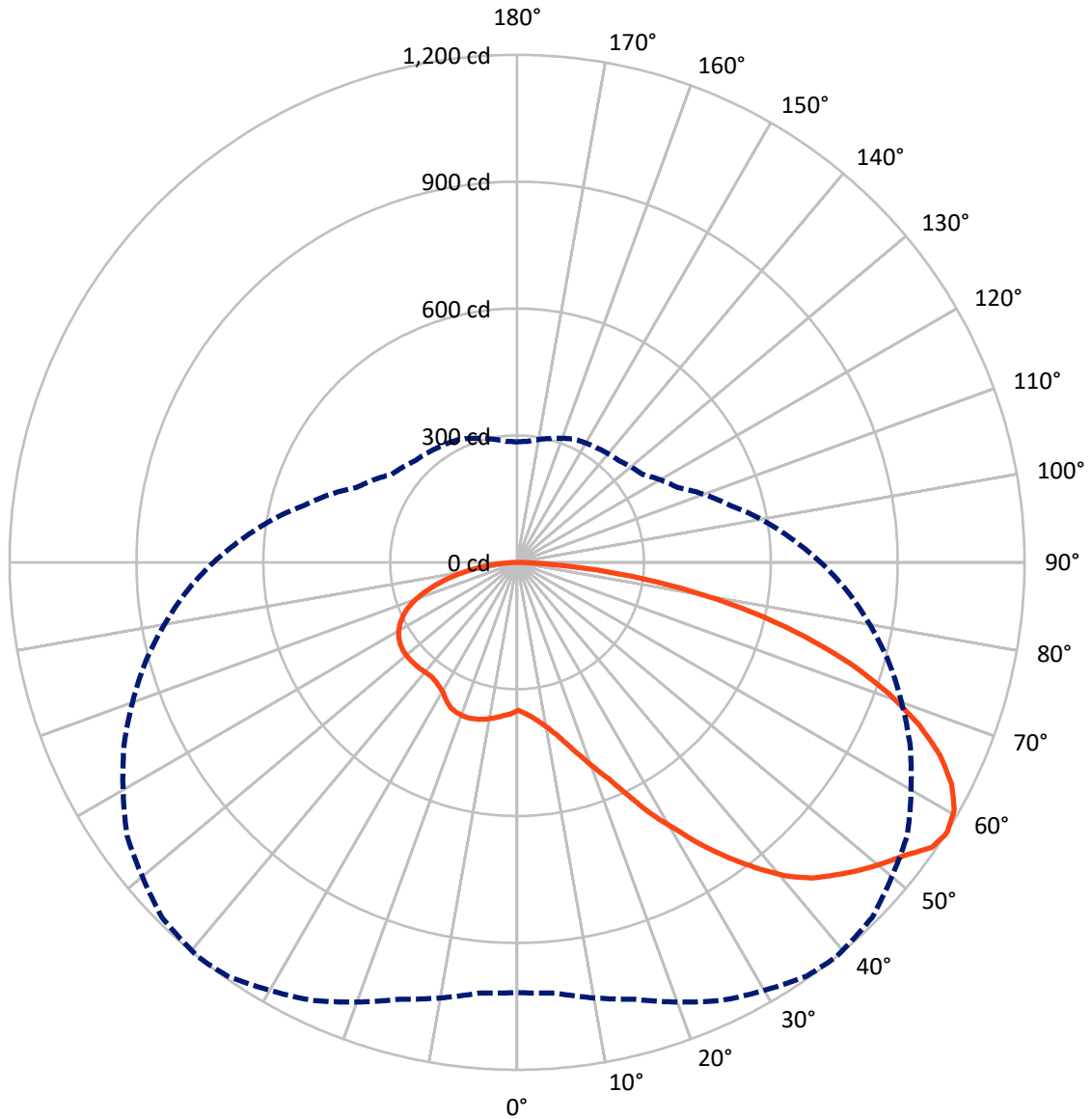
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 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
House Side	Lumens	946.8	0.0	946.8
	% Fixture	30.7	0.0	30.7
Street Side	Lumens	2138.9	0.0	2138.9
	% Fixture	69.3	0.0	69.3
Total	Lumens	3085.7	0.0	3085.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.4	1.1
10°-20°	118.2	3.8
20°-30°	228.2	7.4
30°-40°	369.2	12.0
40°-50°	518.7	16.8
50°-60°	640.7	20.8
60°-70°	636.8	20.6
70°-80°	430.9	14.0
80°-90°	107.5	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°	3085.7	100.0
0°-180°	3085.7	100.0

Coefficient of Utilization



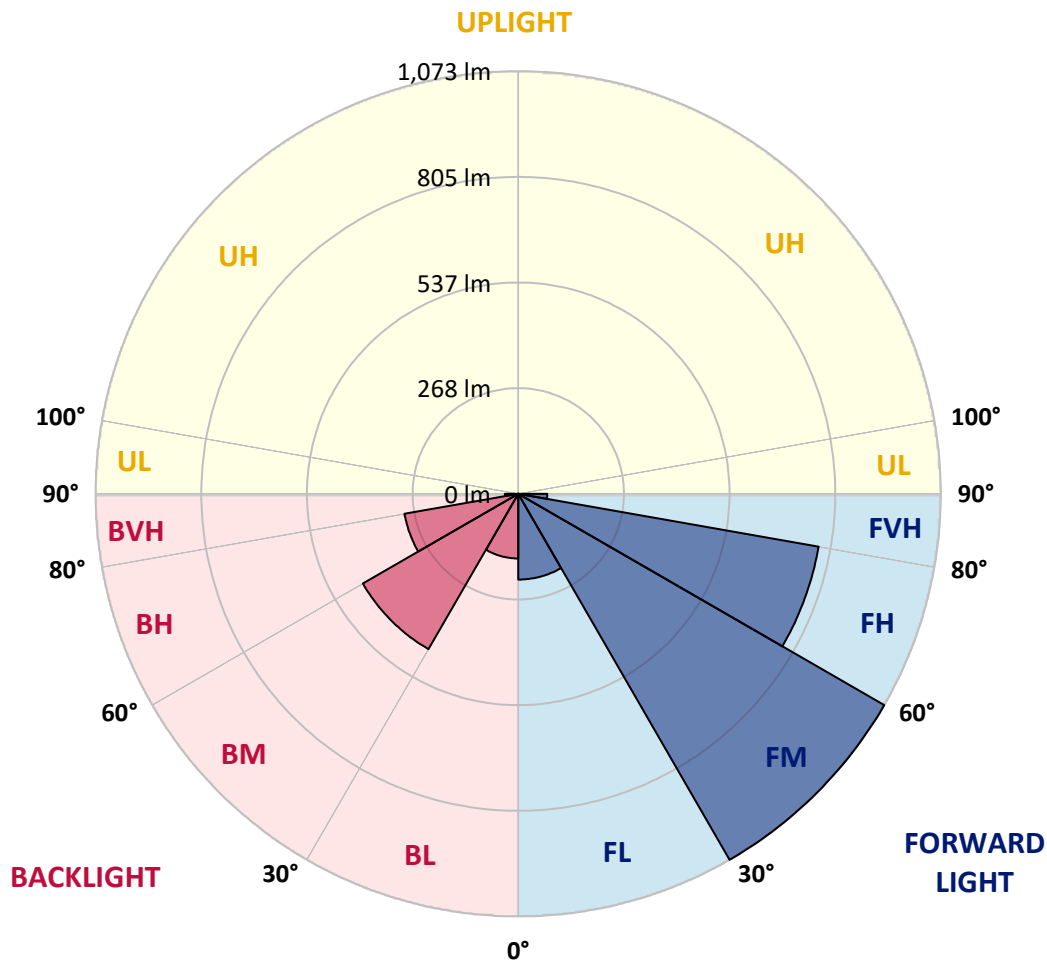
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	217.7	7.1			
FM (30°-60°)	1073.1	34.8			
FH (60°-80°)	774.5	25.1			G1/1800
FVH (80°-90°)	73.6	2.4			G1/100
BL (0°-30°)	164.1	5.3	B1/500		
BM (30°-60°)	455.5	14.8	B1/1000		
BH (60°-80°)	293.2	9.5	B1/500		G1/500
BVH (80°-90°)	33.9	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°	349.9	349.9	349.9	349.9	349.9	349.9	349.9	349.9	349.9	349.9	349.9
2.5°	360.3	359.8	359.4	359.4	358.4	357.5	357.0	356.0	356.5	357.5	357.9
5°	370.7	369.8	369.8	368.8	367.4	367.4	366.0	364.1	363.6	363.1	363.1
7.5°	386.8	385.4	385.8	384.4	383.0	381.1	378.7	376.4	375.4	372.1	369.3
10°	405.2	404.8	403.3	401.0	399.6	397.7	395.3	391.0	387.7	383.9	381.6
12.5°	427.0	426.0	426.5	424.6	422.2	418.9	415.2	410.9	404.8	397.7	392.9
15°	455.3	453.5	453.5	453.0	448.3	447.3	443.5	434.1	425.6	416.1	405.2
17.5°	489.9	489.4	487.5	485.6	482.8	479.5	475.7	465.3	452.5	437.9	423.2
20°	526.7	525.8	527.2	524.4	518.7	517.3	511.1	499.3	483.7	466.7	444.5
22.5°	566.9	567.9	567.9	566.9	562.2	556.5	551.3	535.7	517.8	497.0	471.0
25°	615.6	616.1	618.9	621.8	618.9	610.0	602.9	578.8	554.6	528.2	497.4
27.5°	670.5	667.2	675.2	680.4	675.2	672.9	657.3	630.8	597.7	564.6	526.3
30°	723.4	723.4	730.1	737.6	734.3	728.6	715.9	681.8	644.0	601.9	555.6
32.5°	772.6	778.3	781.1	798.6	796.7	793.9	779.2	734.3	687.0	639.3	584.0
35°	830.8	828.9	840.7	851.6	860.1	856.3	845.4	800.0	738.1	678.5	615.2
37.5°	874.8	878.5	888.9	908.3	914.5	916.4	902.7	855.8	785.4	720.6	649.7
40°	908.3	911.2	931.0	955.6	968.4	975.0	961.3	904.5	829.8	754.2	676.6
42.5°	935.3	937.2	958.0	993.0	1014.2	1020.9	1008.6	948.5	867.7	781.1	698.9
45°	953.2	956.6	981.1	1017.1	1050.2	1054.9	1048.8	987.3	901.2	806.7	714.9
47.5°	968.9	972.6	1000.1	1045.5	1082.3	1088.5	1082.8	1021.3	933.4	829.8	728.6
50°	989.7	993.9	1021.3	1071.9	1112.6	1119.7	1117.8	1057.3	963.7	855.8	742.8
52.5°	1009.5	1012.8	1045.5	1101.7	1145.7	1150.4	1149.0	1090.8	994.4	883.7	760.8
55°	1025.1	1028.9	1067.7	1137.2	1184.5	1189.7	1179.7	1116.9	1018.5	904.1	777.8
57°	1017.1	1022.3	1069.6	1143.3	1194.4	1200.1	1187.3	1126.3	1025.6	909.7	784.0
57.5°	1014.7	1018.5	1067.7	1142.9	1194.9	1200.1	1187.3	1125.8	1025.1	909.3	784.0
60°	980.2	989.2	1044.5	1125.8	1181.2	1187.8	1175.5	1106.9	1013.3	896.0	771.2
62.5°	933.9	946.2	1004.3	1085.6	1148.1	1152.8	1140.5	1075.2	986.8	868.1	744.7
65°	867.2	886.1	947.1	1025.6	1093.2	1098.9	1086.6	1022.3	942.8	825.6	705.0
67.5°	801.9	813.3	878.5	953.2	1016.1	1024.6	1014.2	957.0	882.3	768.8	652.0
70°	727.7	735.7	789.6	862.9	926.3	933.4	924.4	871.0	800.5	698.4	590.1
72.5°	638.3	646.8	692.7	760.3	816.6	827.9	821.8	766.5	702.6	614.2	521.1
75°	537.6	547.1	588.2	642.1	697.0	703.6	696.5	655.8	598.1	518.2	436.9
77.5°	436.0	442.1	471.9	512.6	555.1	569.3	567.4	538.6	480.4	417.0	350.8
80°	326.3	327.2	342.8	376.4	410.4	420.8	423.2	397.2	358.9	311.1	262.9
82.5°	206.2	209.5	218.0	243.0	259.6	273.8	277.1	262.0	237.8	208.1	178.3
85°	96.0	93.1	99.8	108.3	131.9	131.9	136.2	128.1	121.0	111.1	92.2
87.5°	8.0	7.6	7.6	8.0	12.8	13.7	21.8	24.1	26.0	26.0	27.4
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°	349.9	349.9	349.9	349.9	349.9	349.9	349.9	349.9	349.9	349.9	349.9
2.5°	357.0	356.5	355.1	355.1	356.0	357.5	357.9	358.4	358.9	359.4	359.4
5°	362.7	362.2	361.3	360.3	361.3	361.7	363.1	364.1	364.1	365.0	364.6
7.5°	367.9	368.3	367.4	366.9	366.9	367.9	369.8	371.2	372.1	372.6	373.5
10°	379.7	376.9	373.1	371.2	371.2	373.1	375.0	376.9	378.7	379.7	379.7
12.5°	390.1	386.8	379.7	376.9	376.4	378.3	380.6	383.5	384.9	386.3	386.3
15°	399.6	396.7	388.2	381.6	379.7	381.1	383.9	387.3	389.6	391.0	391.0
17.5°	417.5	409.0	397.7	386.8	383.0	383.5	386.8	390.1	392.9	393.9	393.4
20°	434.5	423.7	406.6	391.0	384.9	383.0	386.3	390.6	392.9	394.4	394.4
22.5°	453.9	442.1	415.6	395.3	383.9	381.1	383.9	387.7	390.6	391.5	392.5
25°	481.4	460.5	425.6	398.6	382.5	376.9	378.7	382.5	385.8	386.3	385.8
27.5°	505.9	482.3	438.8	401.9	379.2	368.8	366.9	369.8	375.0	378.3	379.2
30°	527.2	505.5	452.5	404.8	373.1	355.6	353.2	354.2	357.5	366.5	366.9
32.5°	558.9	525.3	466.2	407.1	366.0	348.5	345.2	344.2	345.2	349.9	349.9
35°	580.6	547.6	479.9	411.4	360.8	342.8	339.5	338.1	337.1	332.4	331.0
37.5°	609.0	572.1	493.2	415.2	358.4	340.4	335.7	336.7	331.9	318.7	314.9
40°	640.2	594.4	506.4	418.9	359.4	340.9	336.7	336.2	328.2	309.7	305.9
42.5°	655.4	613.3	520.1	424.1	363.1	342.3	338.6	337.1	327.2	306.4	301.2
45°	670.0	627.0	530.1	428.4	366.9	344.2	339.5	338.1	326.7	303.6	299.8
47.5°	683.3	635.5	534.8	430.8	369.8	345.6	340.0	337.6	324.4	302.1	298.4
50°	689.4	640.2	534.8	430.8	370.7	347.1	339.0	335.7	320.6	299.8	296.5
52.5°	698.9	643.1	530.5	427.9	369.3	347.1	337.1	331.9	315.9	296.5	293.6
55°	713.0	648.3	524.9	423.7	366.0	344.2	333.8	326.7	309.2	291.7	289.4
57°	717.8	650.2	521.1	418.5	362.2	340.4	330.0	321.1	303.1	287.0	284.7
57.5°	716.8	649.2	519.7	417.0	360.8	339.0	329.1	319.6	301.7	286.1	283.7
60°	704.1	640.2	510.7	408.1	353.2	331.5	320.6	310.2	291.7	278.0	276.1
62.5°	683.3	619.9	494.6	396.2	342.8	321.1	309.7	297.9	279.4	267.6	266.7
65°	647.8	585.9	471.4	379.2	329.6	307.3	295.1	282.3	266.2	255.8	253.0
67.5°	588.7	540.5	438.8	355.6	309.2	290.3	277.1	263.8	249.2	240.2	238.3
70°	539.5	490.8	397.2	325.8	284.7	266.7	254.4	241.6	228.9	220.8	220.3
72.5°	477.1	430.3	345.2	288.9	253.4	235.9	226.5	215.1	205.2	198.1	198.1
75°	401.4	364.6	291.3	244.9	216.1	203.3	195.3	186.3	177.8	173.1	174.0
77.5°	319.2	291.3	237.8	198.1	176.8	168.3	160.8	155.6	150.4	146.1	146.6
80°	235.5	214.7	175.0	145.6	135.2	127.7	126.2	122.9	120.1	118.7	116.3
82.5°	161.2	142.8	116.3	99.8	92.2	89.8	90.3	90.3	90.8	90.8	89.8
85°	83.7	76.6	59.1	53.4	52.5	54.8	57.7	59.6	59.1	59.1	57.7
87.5°	24.1	21.8	18.9	17.0	18.0	19.4	17.0	16.5	16.1	15.6	15.6
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)