

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: P472265

Luminaire Tested: **CCW-VA-1-730-U-T4FT**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472265
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-1-730-U-T4FT
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4FT DISTRIBUTION LENS
Light Source: 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3230.6 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

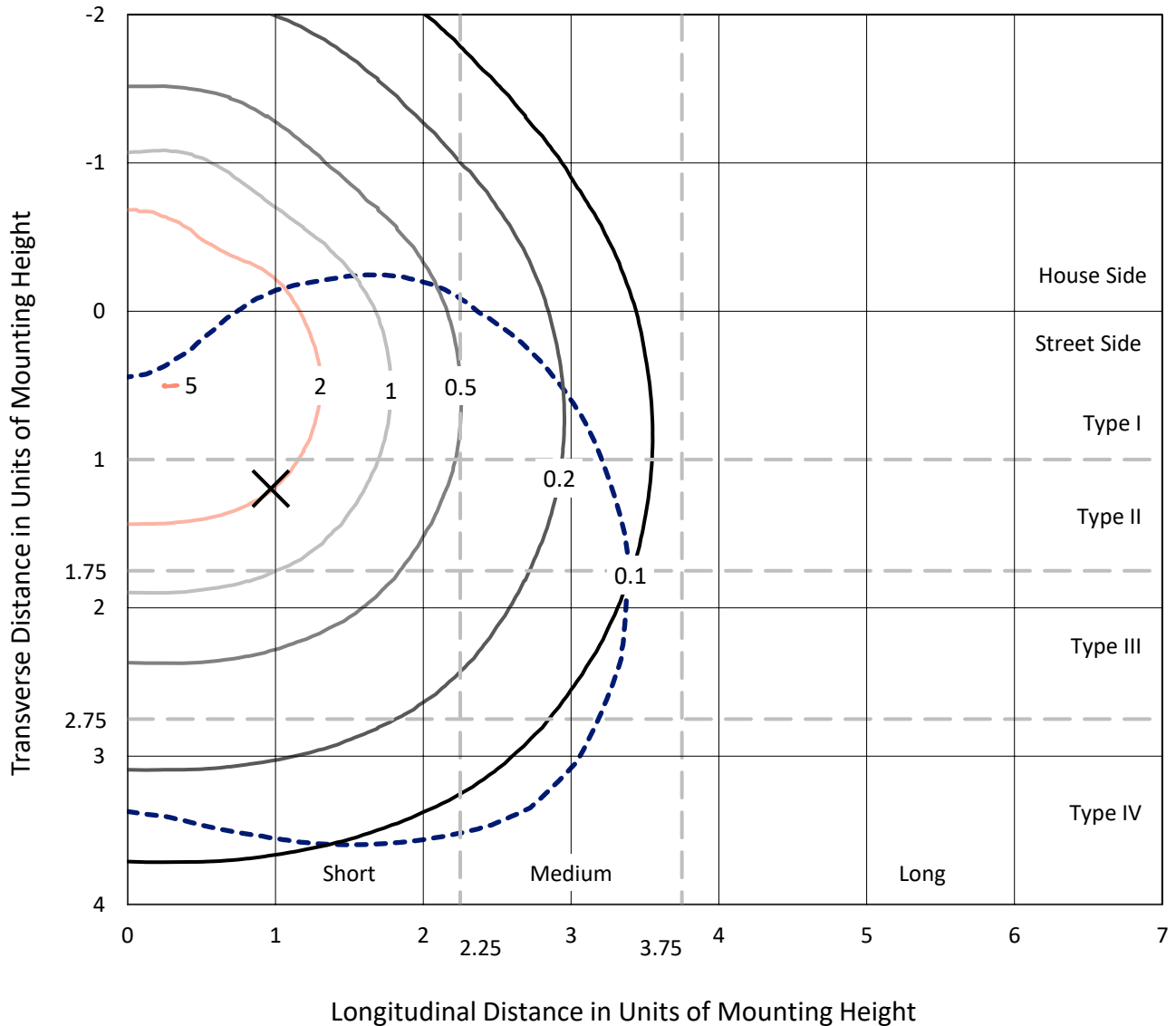
Input Watts (W): 30.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

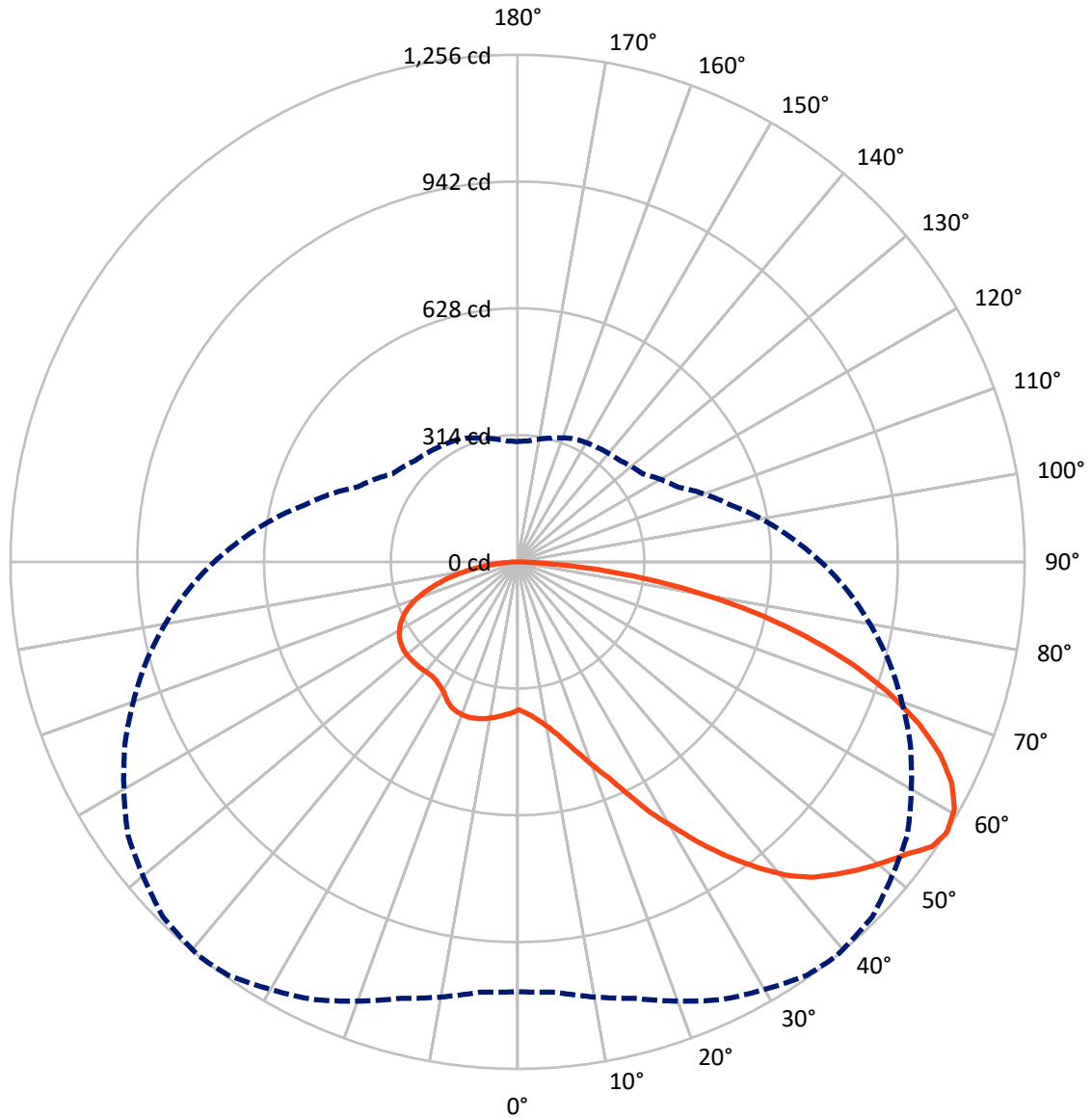
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 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	991.3	0.0	991.3
	% Fixture	30.7	0.0	30.7
Street Side	Lumens	2239.4	0.0	2239.4
	% Fixture	69.3	0.0	69.3
Total	Lumens	3230.6	0.0	3230.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.1	1.1
10°-20°	123.7	3.8
20°-30°	239.0	7.4
30°-40°	386.5	12.0
40°-50°	543.0	16.8
50°-60°	670.8	20.8
60°-70°	666.7	20.6
70°-80°	451.1	14.0
80°-90°	112.6	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°	3230.6	100.0
0°-180°	3230.6	100.0

Coefficient of Utilization



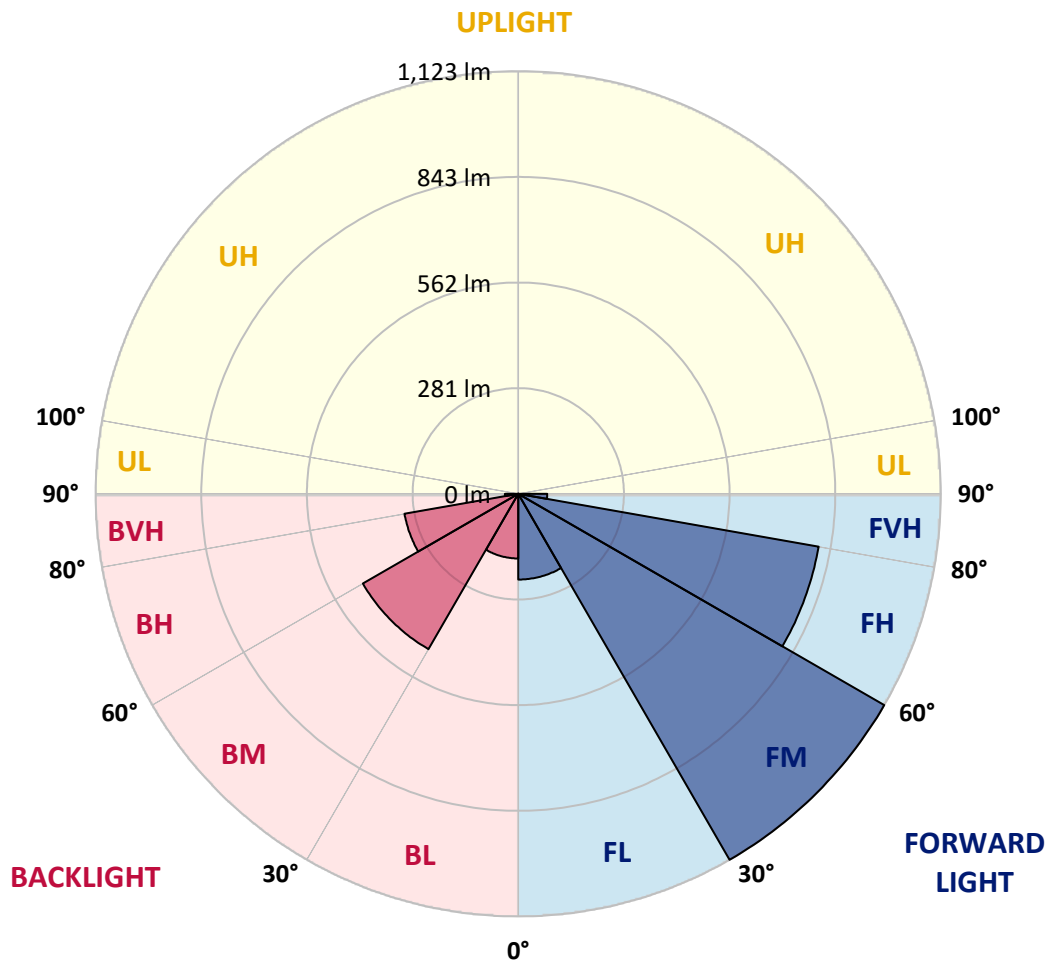
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	228.0	7.1			
FM (30°-60°)	1123.5	34.8			
FH (60°-80°)	810.9	25.1			G1/1800
FVH (80°-90°)	77.0	2.4			G1/100
BL (0°-30°)	171.8	5.3	B1/500		
BM (30°-60°)	476.9	14.8	B1/1000		
BH (60°-80°)	307.0	9.5	B1/500		G1/500
BVH (80°-90°)	35.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3
2.5°	377.2	376.7	376.2	376.2	375.2	374.3	373.8	372.8	373.3	374.3	374.8
5°	388.1	387.1	387.1	386.1	384.7	384.7	383.2	381.2	380.7	380.2	380.2
7.5°	405.0	403.5	404.0	402.5	401.0	399.0	396.5	394.1	393.1	389.6	386.6
10°	424.3	423.8	422.3	419.8	418.3	416.3	413.9	409.4	405.9	402.0	399.5
12.5°	447.0	446.0	446.5	444.6	442.1	438.6	434.7	430.2	423.8	416.3	411.4
15°	476.7	474.8	474.8	474.3	469.3	468.3	464.4	454.5	445.5	435.6	424.3
17.5°	512.9	512.4	510.4	508.4	505.4	502.0	498.0	487.1	473.8	458.4	443.1
20°	551.5	550.5	552.0	549.0	543.1	541.6	535.2	522.8	506.4	488.6	465.3
22.5°	593.6	594.6	594.6	593.6	588.6	582.7	577.2	560.9	542.1	520.3	493.1
25°	644.6	645.1	648.0	651.0	648.0	638.6	631.2	605.9	580.7	553.0	520.8
27.5°	702.0	698.5	706.9	712.4	706.9	704.5	688.1	660.4	625.7	591.1	551.0
30°	757.4	757.4	764.4	772.3	768.8	762.9	749.5	713.9	674.3	630.2	581.7
32.5°	808.9	814.9	817.8	836.1	834.2	831.2	815.8	768.8	719.3	669.3	611.4
35°	869.8	867.8	880.2	891.6	900.5	896.5	885.2	837.6	772.8	710.4	644.1
37.5°	915.8	919.8	930.7	951.0	957.4	959.4	945.1	896.0	822.3	754.5	680.2
40°	951.0	954.0	974.8	1000.5	1013.9	1020.8	1006.4	947.0	868.8	789.6	708.4
42.5°	979.2	981.2	1003.0	1039.6	1061.9	1068.8	1055.9	993.1	908.4	817.8	731.7
45°	998.0	1001.5	1027.2	1064.9	1099.5	1104.5	1098.0	1033.7	943.6	844.6	748.5
47.5°	1014.4	1018.3	1047.0	1094.6	1133.2	1139.6	1133.7	1069.3	977.2	868.8	762.9
50°	1036.1	1040.6	1069.3	1122.3	1164.9	1172.3	1170.3	1106.9	1008.9	896.0	777.7
52.5°	1056.9	1060.4	1094.6	1153.5	1199.5	1204.5	1203.0	1142.1	1041.1	925.3	796.5
55°	1073.3	1077.2	1117.8	1190.6	1240.1	1245.6	1235.2	1169.3	1066.3	946.5	814.4
57°	1064.9	1070.3	1119.8	1197.0	1250.5	1256.4	1243.1	1179.2	1073.8	952.5	820.8
57.5°	1062.4	1066.3	1117.8	1196.5	1251.0	1256.4	1243.1	1178.7	1073.3	952.0	820.8
60°	1026.2	1035.6	1093.6	1178.7	1236.6	1243.6	1230.7	1158.9	1060.9	938.1	807.4
62.5°	977.7	990.6	1051.5	1136.6	1202.0	1206.9	1194.1	1125.7	1033.2	908.9	779.7
65°	907.9	927.7	991.6	1073.8	1144.6	1150.5	1137.6	1070.3	987.1	864.4	738.1
67.5°	839.6	851.5	919.8	998.0	1063.9	1072.8	1061.9	1002.0	923.8	805.0	682.7
70°	761.9	770.3	826.7	903.5	969.8	977.2	967.8	911.9	838.1	731.2	617.8
72.5°	668.3	677.2	725.3	796.0	855.0	866.8	860.4	802.5	735.6	643.1	545.5
75°	562.9	572.8	615.8	672.3	729.7	736.6	729.2	686.6	626.2	542.6	457.4
77.5°	456.4	462.9	494.1	536.6	581.2	596.0	594.1	563.9	503.0	436.6	367.3
80°	341.6	342.6	358.9	394.1	429.7	440.6	443.1	415.8	375.7	325.7	275.2
82.5°	215.8	219.3	228.2	254.5	271.8	286.6	290.1	274.3	249.0	217.8	186.6
85°	100.5	97.5	104.5	113.4	138.1	138.1	142.6	134.2	126.7	116.3	96.5
87.5°	8.4	7.9	7.9	8.4	13.4	14.4	22.8	25.2	27.2	27.2	28.7
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°	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3
2.5°	373.8	373.3	371.8	371.8	372.8	374.3	374.8	375.2	375.7	376.2	376.2
5°	379.7	379.2	378.2	377.2	378.2	378.7	380.2	381.2	381.2	382.2	381.7
7.5°	385.2	385.6	384.7	384.2	384.2	385.2	387.1	388.6	389.6	390.1	391.1
10°	397.5	394.6	390.6	388.6	388.6	390.6	392.6	394.6	396.5	397.5	397.5
12.5°	408.4	405.0	397.5	394.6	394.1	396.0	398.5	401.5	403.0	404.5	404.5
15°	418.3	415.3	406.4	399.5	397.5	399.0	402.0	405.4	407.9	409.4	409.4
17.5°	437.1	428.2	416.3	405.0	401.0	401.5	405.0	408.4	411.4	412.4	411.9
20°	455.0	443.6	425.7	409.4	403.0	401.0	404.5	408.9	411.4	412.9	412.9
22.5°	475.2	462.9	435.2	413.9	402.0	399.0	402.0	405.9	408.9	409.9	410.9
25°	504.0	482.2	445.5	417.3	400.5	394.6	396.5	400.5	404.0	404.5	404.0
27.5°	529.7	505.0	459.4	420.8	397.0	386.1	384.2	387.1	392.6	396.0	397.0
30°	552.0	529.2	473.8	423.8	390.6	372.3	369.8	370.8	374.3	383.7	384.2
32.5°	585.2	550.0	488.1	426.2	383.2	364.9	361.4	360.4	361.4	366.3	366.3
35°	607.9	573.3	502.5	430.7	377.7	358.9	355.4	354.0	353.0	348.0	346.5
37.5°	637.6	599.0	516.3	434.7	375.2	356.4	351.5	352.5	347.5	333.7	329.7
40°	670.3	622.3	530.2	438.6	376.2	356.9	352.5	352.0	343.6	324.3	320.3
42.5°	686.1	642.1	544.6	444.1	380.2	358.4	354.5	353.0	342.6	320.8	315.3
45°	701.5	656.4	555.0	448.5	384.2	360.4	355.4	354.0	342.1	317.8	313.9
47.5°	715.3	665.3	559.9	451.0	387.1	361.9	355.9	353.5	339.6	316.3	312.4
50°	721.8	670.3	559.9	451.0	388.1	363.4	355.0	351.5	335.6	313.9	310.4
52.5°	731.7	673.3	555.4	448.0	386.6	363.4	353.0	347.5	330.7	310.4	307.4
55°	746.5	678.7	549.5	443.6	383.2	360.4	349.5	342.1	323.8	305.4	303.0
57°	751.5	680.7	545.5	438.1	379.2	356.4	345.5	336.1	317.3	300.5	298.0
57.5°	750.5	679.7	544.1	436.6	377.7	355.0	344.6	334.7	315.8	299.5	297.0
60°	737.1	670.3	534.7	427.2	369.8	347.0	335.6	324.8	305.4	291.1	289.1
62.5°	715.3	649.0	517.8	414.9	358.9	336.1	324.3	311.9	292.6	280.2	279.2
65°	678.2	613.4	493.6	397.0	345.1	321.8	308.9	295.5	278.7	267.8	264.9
67.5°	616.3	565.8	459.4	372.3	323.8	304.0	290.1	276.2	260.9	251.5	249.5
70°	564.9	513.9	415.8	341.1	298.0	279.2	266.3	253.0	239.6	231.2	230.7
72.5°	499.5	450.5	361.4	302.5	265.3	247.0	237.1	225.2	214.9	207.4	207.4
75°	420.3	381.7	305.0	256.4	226.2	212.9	204.5	195.1	186.1	181.2	182.2
77.5°	334.2	305.0	249.0	207.4	185.1	176.2	168.3	162.9	157.4	153.0	153.5
80°	246.5	224.8	183.2	152.5	141.6	133.7	132.2	128.7	125.7	124.3	121.8
82.5°	168.8	149.5	121.8	104.5	96.5	94.1	94.6	94.6	95.0	95.0	94.1
85°	87.6	80.2	61.9	55.9	55.0	57.4	60.4	62.4	61.9	61.9	60.4
87.5°	25.2	22.8	19.8	17.8	18.8	20.3	17.8	17.3	16.8	16.3	16.3
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)