

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: P472297

Luminaire Tested: **CCW-VA-1-840-U-T4FT**

Issue Date: 01/27/2021

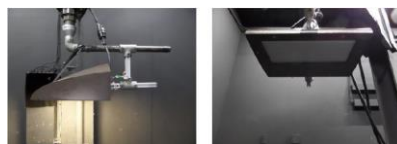
Test Information

Test Method: LM-79-08
Report Number: P472297
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-1-840-U-T4FT
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4FT DISTRIBUTION LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3187 lumens
Efficiency: N/A
Efficacy: 105.2 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

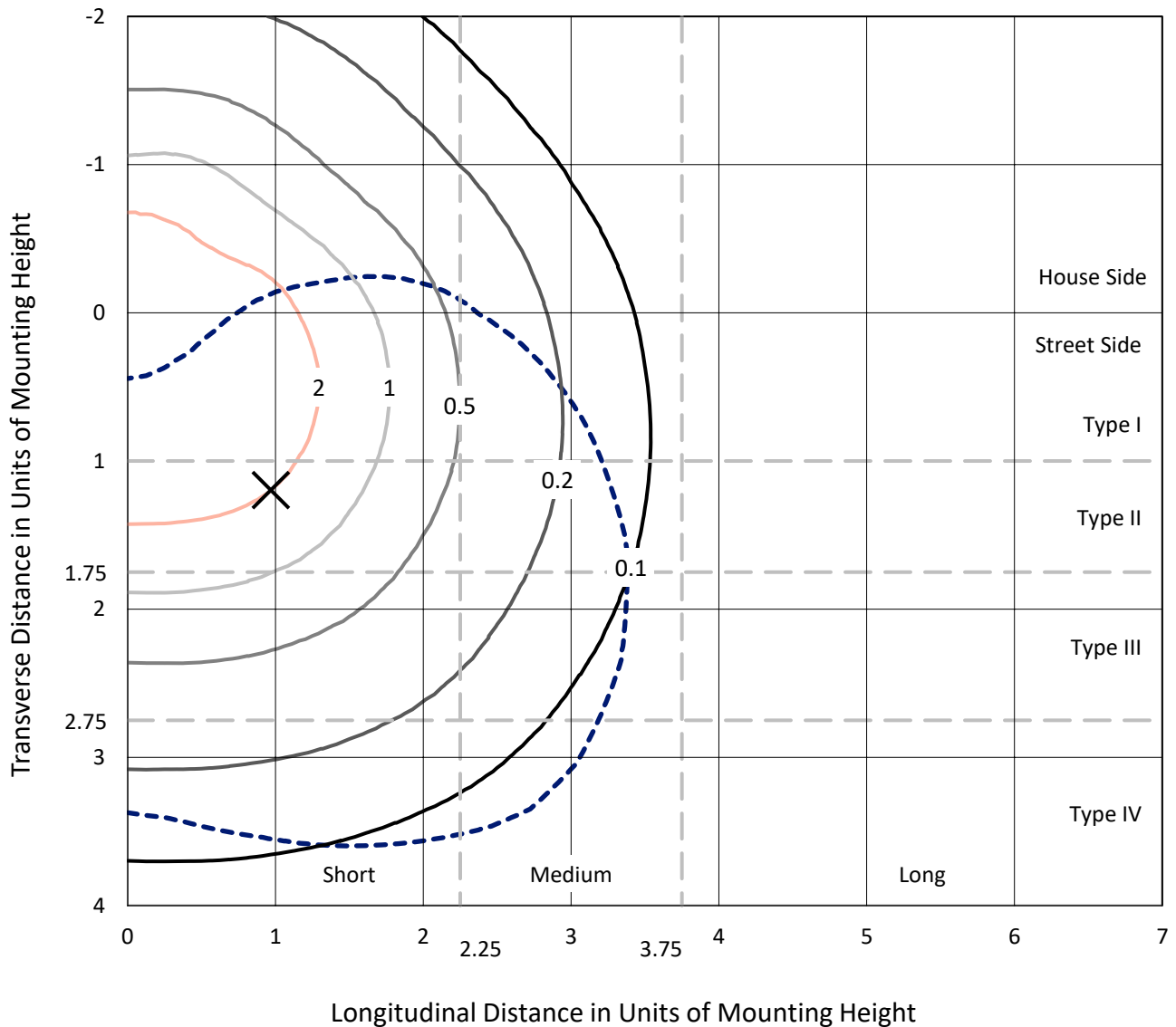




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Iso-Footcandle Lines of Horizontal Illumination

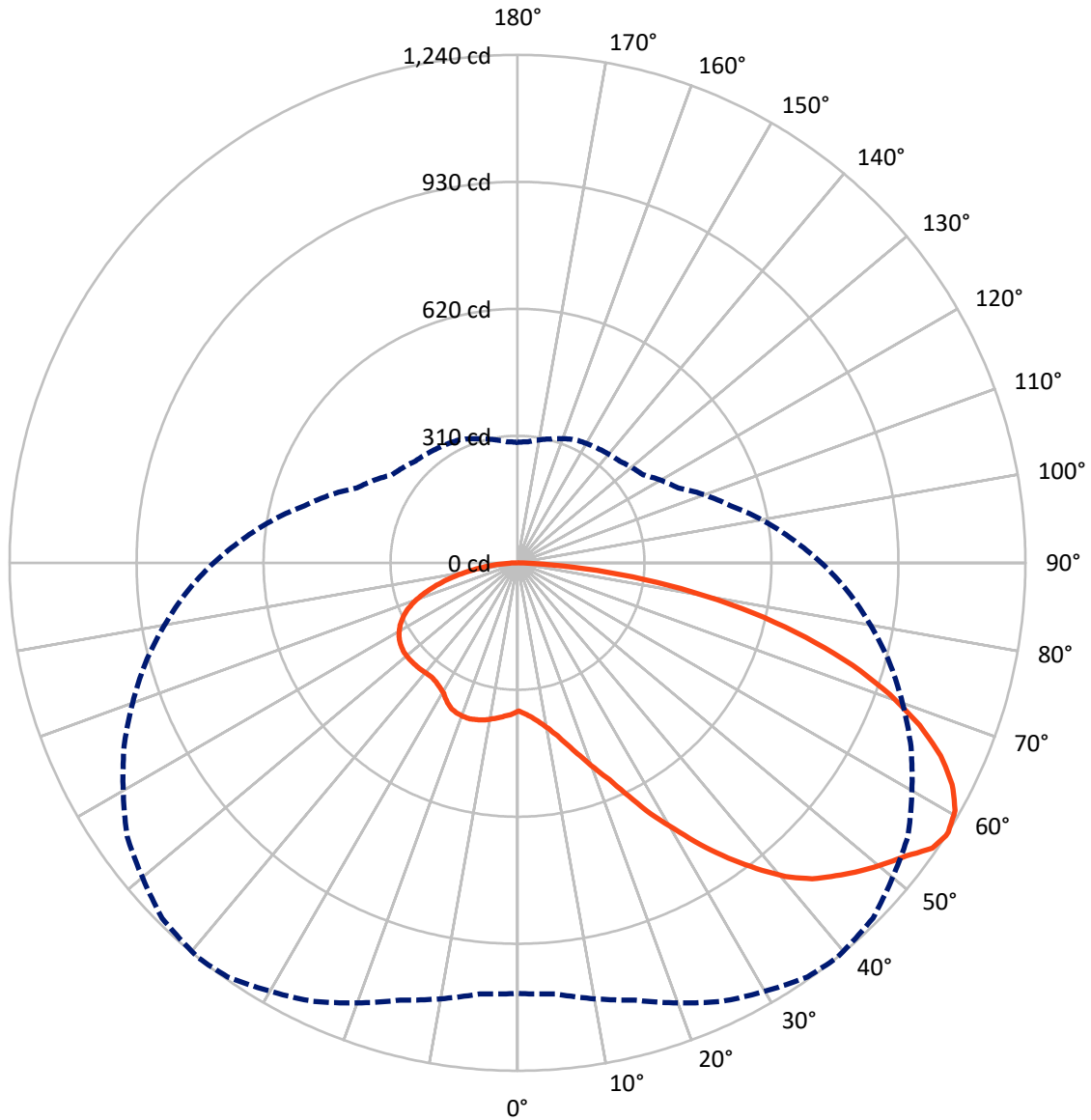
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.9 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
House Side	Lumens	977.9	0.0	977.9
	% Fixture	30.7	0.0	30.7
Street Side	Lumens	2209.1	0.0	2209.1
	% Fixture	69.3	0.0	69.3
Total	Lumens	3187.0	0.0	3187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.6	1.1
10°-20°	122.0	3.8
20°-30°	235.7	7.4
30°-40°	381.3	12.0
40°-50°	535.7	16.8
50°-60°	661.8	20.8
60°-70°	657.7	20.6
70°-80°	445.0	14.0
80°-90°	111.1	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°	3187.0	100.0
0°-180°	3187.0	100.0

Coefficient of Utilization

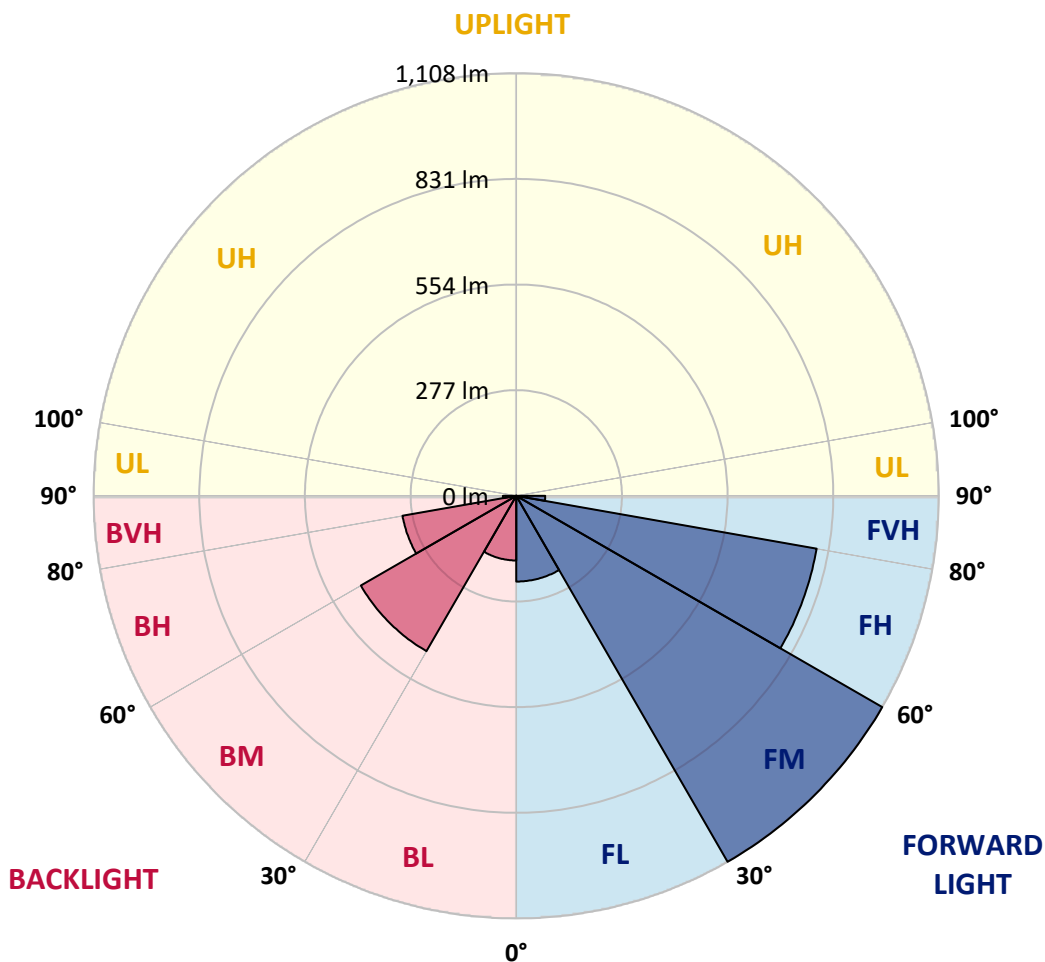


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	224.9	7.1			
FM (30°-60°)	1108.3	34.8			
FH (60°-80°)	799.9	25.1			G1/1800
FVH (80°-90°)	76.0	2.4			G1/100
BL (0°-30°)	169.5	5.3	B1/500		
BM (30°-60°)	470.5	14.8	B1/1000		
BH (60°-80°)	302.8	9.5	B1/500		G1/500
BVH (80°-90°)	35.1	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-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4
2.5°	372.1	371.6	371.2	371.2	370.2	369.2	368.7	367.7	368.2	369.2	369.7
5°	382.9	381.9	381.9	380.9	379.5	379.5	378.0	376.0	375.6	375.1	375.1
7.5°	399.5	398.0	398.5	397.0	395.6	393.6	391.2	388.7	387.8	384.3	381.4
10°	418.5	418.0	416.6	414.1	412.7	410.7	408.3	403.9	400.5	396.6	394.1
12.5°	441.0	440.0	440.5	438.6	436.1	432.7	428.8	424.4	418.0	410.7	405.8
15°	470.3	468.3	468.3	467.9	463.0	462.0	458.1	448.3	439.5	429.8	418.5
17.5°	505.9	505.5	503.5	501.5	498.6	495.2	491.3	480.5	467.4	452.2	437.1
20°	544.0	543.1	544.5	541.6	535.7	534.3	527.9	515.7	499.6	482.0	459.1
22.5°	585.5	586.5	586.5	585.5	580.7	574.8	569.4	553.3	534.8	513.3	486.4
25°	635.8	636.3	639.3	642.2	639.3	630.0	622.7	597.8	572.8	545.5	513.8
27.5°	692.5	689.1	697.4	702.8	697.4	694.9	678.8	651.5	617.3	583.1	543.5
30°	747.2	747.2	754.0	761.8	758.4	752.6	739.4	704.2	665.2	621.7	573.8
32.5°	798.0	803.8	806.8	824.8	822.9	820.0	804.8	758.4	709.6	660.3	603.1
35°	858.1	856.1	868.3	879.5	888.3	884.4	873.2	826.3	762.3	700.8	635.4
37.5°	903.5	907.4	918.1	938.1	944.5	946.4	932.3	883.9	811.2	744.3	671.0
40°	938.1	941.1	961.6	987.0	1000.2	1007.0	992.8	934.2	857.1	778.9	698.8
42.5°	966.0	967.9	989.4	1025.6	1047.5	1054.4	1041.7	979.7	896.1	806.8	721.8
45°	984.5	988.0	1013.4	1050.5	1084.7	1089.5	1083.2	1019.7	930.8	833.1	738.4
47.5°	1000.7	1004.6	1032.9	1079.8	1117.9	1124.2	1118.4	1054.9	964.0	857.1	752.6
50°	1022.1	1026.5	1054.9	1107.1	1149.1	1156.4	1154.5	1092.0	995.3	883.9	767.2
52.5°	1042.7	1046.1	1079.8	1137.9	1183.3	1188.2	1186.7	1126.7	1027.0	912.8	785.8
55°	1058.8	1062.7	1102.7	1174.5	1223.3	1228.7	1218.5	1153.5	1051.9	933.8	803.4
57°	1050.5	1055.8	1104.7	1180.9	1233.6	1239.5	1226.3	1163.3	1059.3	939.6	809.7
57.5°	1048.0	1051.9	1102.7	1180.4	1234.1	1239.5	1226.3	1162.8	1058.8	939.1	809.7
60°	1012.4	1021.7	1078.8	1162.8	1219.9	1226.8	1214.1	1143.3	1046.6	925.4	796.5
62.5°	964.5	977.2	1037.3	1121.3	1185.7	1190.6	1177.9	1110.5	1019.2	896.6	769.2
65°	895.7	915.2	978.2	1059.3	1129.1	1135.0	1122.3	1055.8	973.8	852.7	728.1
67.5°	828.3	840.0	907.4	984.5	1049.5	1058.3	1047.5	988.4	911.3	794.1	673.5
70°	751.6	759.9	815.6	891.3	956.7	964.0	954.7	899.6	826.8	721.3	609.5
72.5°	659.3	668.1	715.5	785.3	843.4	855.1	848.8	791.6	725.7	634.4	538.2
75°	555.3	565.0	607.5	663.2	719.8	726.7	719.4	677.4	617.8	535.2	451.2
77.5°	450.3	456.6	487.4	529.4	573.3	588.0	586.0	556.2	496.2	430.7	362.4
80°	337.0	337.9	354.1	388.7	423.9	434.6	437.1	410.2	370.7	321.3	271.5
82.5°	212.9	216.3	225.1	251.0	268.1	282.8	286.2	270.6	245.6	214.9	184.1
85°	99.1	96.2	103.0	111.8	136.3	136.3	140.6	132.3	125.0	114.8	95.2
87.5°	8.3	7.8	7.8	8.3	13.2	14.2	22.5	24.9	26.9	26.9	28.3
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°	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4
2.5°	368.7	368.2	366.8	366.8	367.7	369.2	369.7	370.2	370.7	371.2	371.2
5°	374.6	374.1	373.1	372.1	373.1	373.6	375.1	376.0	376.0	377.0	376.5
7.5°	379.9	380.4	379.5	379.0	379.0	379.9	381.9	383.4	384.3	384.8	385.8
10°	392.2	389.2	385.3	383.4	383.4	385.3	387.3	389.2	391.2	392.2	392.2
12.5°	402.9	399.5	392.2	389.2	388.7	390.7	393.1	396.1	397.5	399.0	399.0
15°	412.7	409.7	400.9	394.1	392.2	393.6	396.6	400.0	402.4	403.9	403.9
17.5°	431.2	422.4	410.7	399.5	395.6	396.1	399.5	402.9	405.8	406.8	406.3
20°	448.8	437.6	420.0	403.9	397.5	395.6	399.0	403.4	405.8	407.3	407.3
22.5°	468.8	456.6	429.3	408.3	396.6	393.6	396.6	400.5	403.4	404.4	405.3
25°	497.2	475.7	439.5	411.7	395.1	389.2	391.2	395.1	398.5	399.0	398.5
27.5°	522.5	498.1	453.2	415.1	391.7	380.9	379.0	381.9	387.3	390.7	391.7
30°	544.5	522.1	467.4	418.0	385.3	367.2	364.8	365.8	369.2	378.5	379.0
32.5°	577.2	542.6	481.5	420.5	378.0	359.9	356.5	355.5	356.5	361.4	361.4
35°	599.7	565.5	495.7	424.9	372.6	354.1	350.6	349.2	348.2	343.3	341.9
37.5°	629.0	590.9	509.4	428.8	370.2	351.6	346.7	347.7	342.8	329.2	325.2
40°	661.2	613.9	523.0	432.7	371.2	352.1	347.7	347.2	338.9	319.9	316.0
42.5°	676.9	633.4	537.2	438.1	375.1	353.6	349.7	348.2	337.9	316.5	311.1
45°	692.0	647.6	547.5	442.5	379.0	355.5	350.6	349.2	337.5	313.5	309.6
47.5°	705.7	656.4	552.3	444.9	381.9	357.0	351.1	348.7	335.0	312.1	308.2
50°	712.0	661.2	552.3	444.9	382.9	358.5	350.2	346.7	331.1	309.6	306.2
52.5°	721.8	664.2	547.9	442.0	381.4	358.5	348.2	342.8	326.2	306.2	303.3
55°	736.5	669.5	542.1	437.6	378.0	355.5	344.8	337.5	319.4	301.3	298.9
57°	741.3	671.5	538.2	432.2	374.1	351.6	340.9	331.6	313.0	296.4	294.0
57.5°	740.4	670.5	536.7	430.7	372.6	350.2	339.9	330.1	311.6	295.5	293.0
60°	727.2	661.2	527.4	421.5	364.8	342.3	331.1	320.4	301.3	287.2	285.2
62.5°	705.7	640.2	510.8	409.2	354.1	331.6	319.9	307.7	288.6	276.4	275.4
65°	669.1	605.1	486.9	391.7	340.4	317.4	304.7	291.6	274.9	264.2	261.3
67.5°	608.0	558.2	453.2	367.2	319.4	299.9	286.2	272.5	257.4	248.1	246.1
70°	557.2	506.9	410.2	336.5	294.0	275.4	262.7	249.6	236.4	228.1	227.6
72.5°	492.8	444.4	356.5	298.4	261.8	243.7	233.9	222.2	211.9	204.6	204.6
75°	414.6	376.5	300.8	253.0	223.2	210.0	201.7	192.4	183.6	178.7	179.7
77.5°	329.6	300.8	245.6	204.6	182.6	173.9	166.0	160.7	155.3	150.9	151.4
80°	243.2	221.7	180.7	150.4	139.7	131.9	130.4	127.0	124.0	122.6	120.1
82.5°	166.5	147.5	120.1	103.0	95.2	92.8	93.3	93.3	93.8	93.8	92.8
85°	86.4	79.1	61.0	55.2	54.2	56.7	59.6	61.5	61.0	61.0	59.6
87.5°	24.9	22.5	19.5	17.6	18.6	20.0	17.6	17.1	16.6	16.1	16.1
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)