

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: P472233

Luminaire Tested: **CCW-VA-1-760-U-T2**

Issue Date: 01/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P472233  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-VA-1-760-U-T2  
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T2 DISTRIBUTION LENS  
Light Source: 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2793.5 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

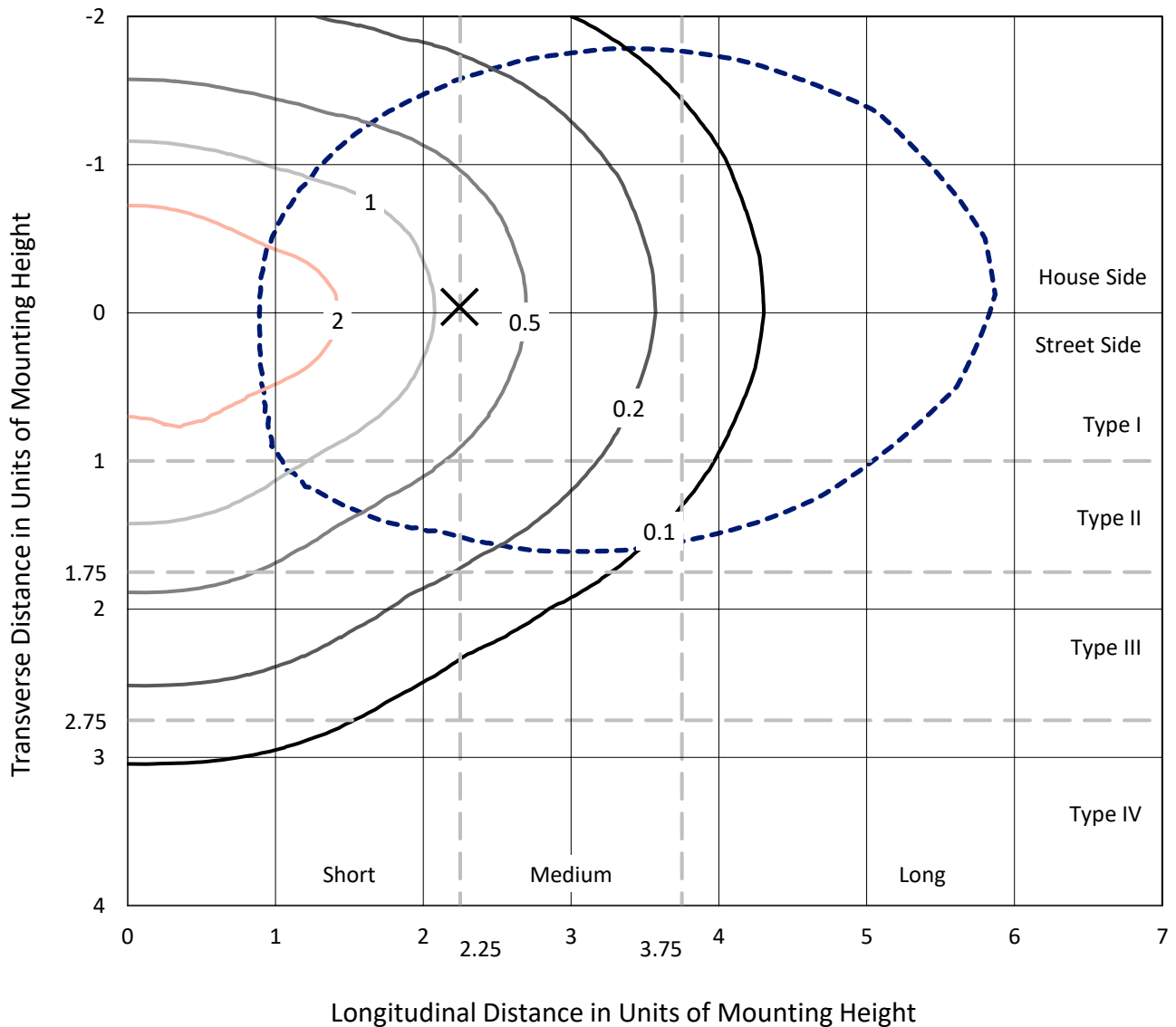
Input Watts (W): 29.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

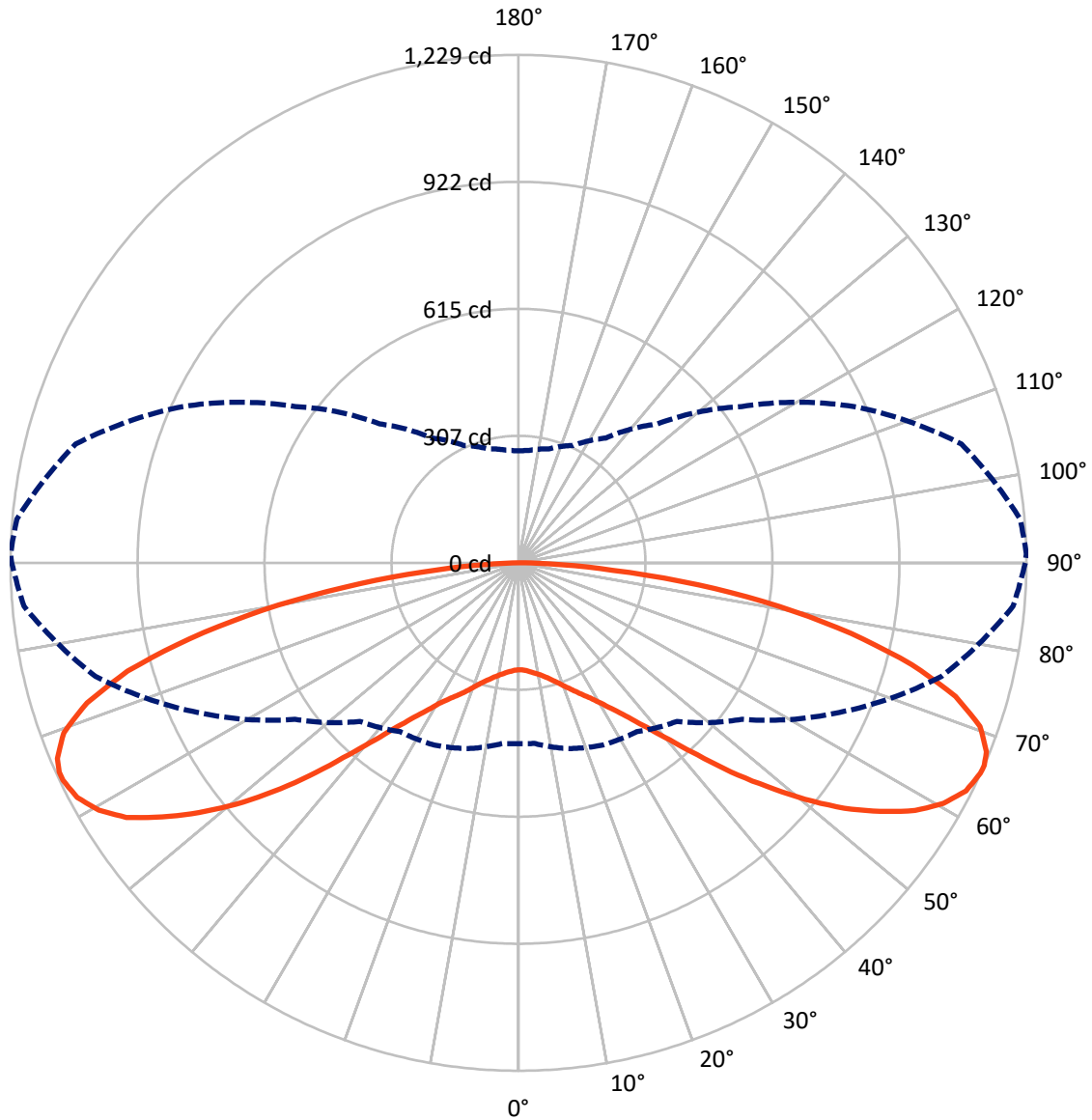
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 91-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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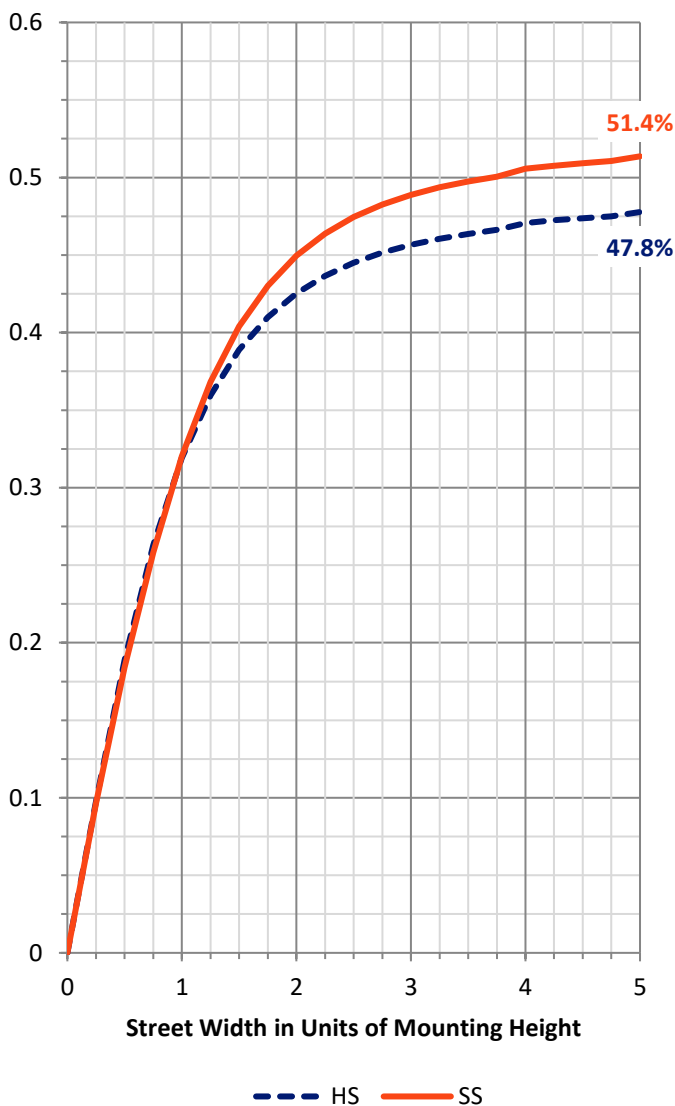
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1348.3	0.0	1348.3
	% Fixture	48.3	0.0	48.3
<b>Street Side</b>	Lumens	1445.2	0.0	1445.2
	% Fixture	51.7	0.0	51.7
<b>Total</b>	Lumens	2793.5	0.0	2793.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.5	0.9
10°-20°	83.4	3.0
20°-30°	161.3	5.8
30°-40°	264.6	9.5
40°-50°	419.2	15.0
50°-60°	578.0	20.7
60°-70°	649.1	23.2
70°-80°	485.1	17.4
80°-90°	127.5	4.6
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°	2793.5	100.0
0°-180°	2793.5	100.0

**Coefficient of Utilization**

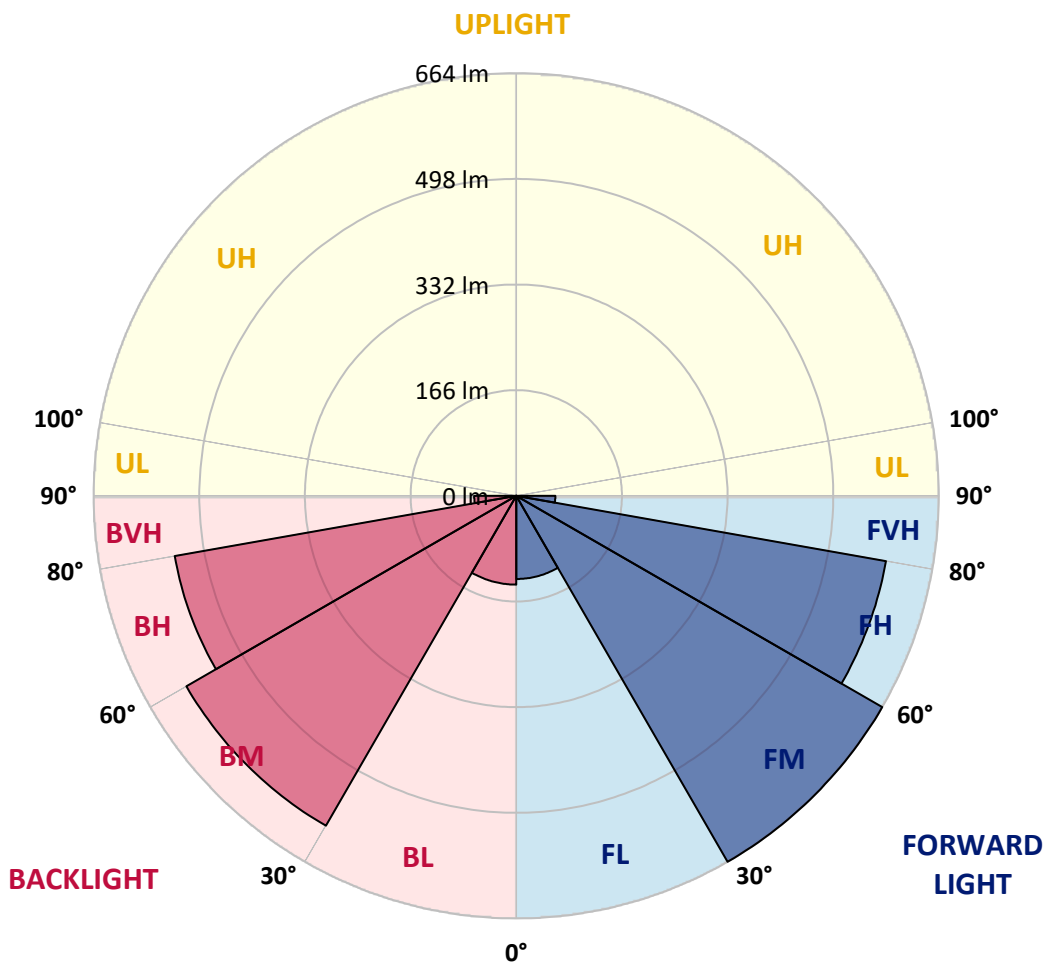


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	130.6	4.7			
FM (30°-60°)	663.7	23.8			
FH (60°-80°)	589.6	21.1			G0/660
FVH (80°-90°)	61.4	2.2			G1/100
BL (0°-30°)	139.5	5.0	B1/500		
BM (30°-60°)	598.1	21.4	B1/1000		
BH (60°-80°)	544.6	19.5	B2/1000		G2/1000
BVH (80°-90°)	66.1	2.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	258.9	258.9	258.9	258.9	258.9	258.9	258.9	258.9	258.9	258.9	258.9
2.5°	259.8	259.8	259.8	259.8	260.8	260.8	260.8	260.8	260.8	259.8	259.8
5°	261.8	261.8	261.8	261.8	262.8	262.8	262.8	262.8	263.8	263.8	263.8
7.5°	263.8	263.8	264.8	264.8	265.8	265.8	266.8	266.8	267.7	268.7	268.7
10°	267.7	267.7	268.7	268.7	270.7	271.7	272.7	272.7	274.7	274.7	274.7
12.5°	272.7	273.7	274.7	275.6	277.6	278.6	279.6	280.6	281.6	282.6	282.6
15°	280.6	279.6	281.6	283.5	284.5	286.5	287.5	288.5	290.5	292.4	292.4
17.5°	286.5	287.5	288.5	290.5	292.4	295.4	297.4	299.4	301.3	303.3	303.3
20°	294.4	293.4	297.4	300.3	302.3	306.3	309.2	313.2	315.2	317.1	318.1
22.5°	301.3	302.3	304.3	308.2	312.2	318.1	324.1	327.0	330.0	332.0	334.9
25°	310.2	311.2	314.2	318.1	324.1	331.0	337.9	341.8	344.8	348.8	351.7
27.5°	319.1	319.1	324.1	330.0	336.9	345.8	353.7	357.6	362.6	367.5	369.5
30°	329.0	329.0	333.9	341.8	351.7	361.6	368.5	376.4	383.3	388.3	392.2
32.5°	343.8	343.8	349.7	357.6	368.5	380.4	390.3	398.2	407.0	415.9	423.8
35°	360.6	361.6	369.5	379.4	392.2	407.0	415.9	426.8	436.7	451.5	459.4
37.5°	387.3	388.3	397.2	410.0	422.9	438.7	453.5	466.3	481.1	497.9	503.9
40°	426.8	429.8	438.7	444.6	456.4	468.3	490.0	511.8	537.5	560.2	564.1
42.5°	497.9	495.0	489.0	487.1	490.0	502.9	526.6	560.2	605.6	634.3	634.3
45°	525.6	525.6	526.6	524.6	522.6	531.5	559.2	612.5	676.8	716.3	724.2
47.5°	530.5	531.5	540.4	548.3	550.3	560.2	593.8	663.9	749.9	808.2	813.1
50°	530.5	532.5	544.4	558.2	568.1	581.9	623.4	709.4	822.0	889.2	902.0
52.5°	528.6	530.5	543.4	560.2	576.0	595.8	649.1	756.8	886.2	977.1	983.0
55°	523.6	525.6	541.4	559.2	577.0	603.7	669.8	797.3	948.5	1050.2	1061.1
57.5°	517.7	520.7	537.5	556.2	573.0	605.6	683.7	828.9	998.8	1115.4	1135.2
60°	505.8	510.8	529.6	548.3	564.1	598.7	690.6	853.6	1036.4	1162.8	1182.6
62.5°	482.1	487.1	507.8	528.6	544.4	581.9	686.6	865.5	1058.1	1192.5	1213.2
65°	452.5	454.5	477.2	498.9	514.7	554.3	669.8	863.5	1063.1	1202.4	1226.1
66°	437.7	438.7	465.3	486.1	498.9	542.4	660.0	856.6	1060.1	1201.4	1226.1
67.5°	411.0	415.9	438.7	460.4	475.2	515.7	636.3	840.8	1048.2	1191.5	1217.2
70°	364.6	368.5	387.3	409.0	424.8	463.4	584.9	794.3	1004.8	1151.0	1180.6
72.5°	314.2	317.1	336.9	352.7	362.6	404.1	522.6	718.3	928.7	1074.9	1103.6
75°	260.8	262.8	280.6	291.5	300.3	336.9	439.6	620.4	809.2	951.4	989.0
77.5°	205.5	206.5	221.3	231.2	231.2	262.8	348.8	502.9	663.9	795.3	823.0
80°	151.2	150.2	159.1	164.0	167.0	187.7	250.9	369.5	505.8	608.6	635.3
82.5°	98.8	97.8	103.7	105.7	105.7	118.6	158.1	234.2	332.0	413.0	428.8
85°	52.4	54.3	53.4	53.4	53.4	58.3	79.0	122.5	176.8	221.3	232.2
87.5°	8.9	8.9	8.9	9.9	11.9	15.8	20.7	34.6	50.4	68.2	77.1
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):**

	91°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	258.9	258.9	258.9	258.9	258.9	258.9	258.9	258.9	258.9	258.9	258.9
2.5°	259.8	260.8	260.8	260.8	260.8	260.8	260.8	260.8	260.8	260.8	260.8
5°	263.8	263.8	263.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8
7.5°	268.7	268.7	269.7	269.7	269.7	270.7	270.7	269.7	269.7	269.7	269.7
10°	274.7	274.7	275.6	276.6	276.6	277.6	277.6	276.6	276.6	275.6	275.6
12.5°	282.6	283.5	284.5	285.5	286.5	286.5	285.5	284.5	283.5	282.6	282.6
15°	292.4	293.4	294.4	296.4	296.4	296.4	295.4	294.4	292.4	291.5	292.4
17.5°	304.3	305.3	307.3	308.2	309.2	308.2	308.2	307.3	307.3	306.3	306.3
20°	319.1	320.1	323.1	324.1	324.1	325.0	328.0	330.0	332.9	333.9	333.9
22.5°	333.9	335.9	338.9	342.8	344.8	348.8	349.7	351.7	350.7	347.8	347.8
25°	351.7	353.7	359.6	364.6	368.5	370.5	368.5	365.6	360.6	356.7	355.7
27.5°	370.5	373.5	382.3	389.3	391.2	389.3	381.4	374.4	368.5	363.6	361.6
30°	394.2	399.1	409.0	413.0	412.0	404.1	392.2	383.3	374.4	368.5	367.5
32.5°	423.8	428.8	437.7	438.7	432.7	417.9	402.1	390.3	379.4	372.5	371.5
35°	459.4	464.3	469.3	466.3	449.5	430.8	411.0	394.2	383.3	375.4	375.4
37.5°	504.9	507.8	507.8	493.0	467.3	442.6	417.9	398.2	386.3	378.4	377.4
40°	564.1	563.1	549.3	520.7	487.1	453.5	422.9	402.1	387.3	379.4	378.4
42.5°	635.3	628.4	598.7	552.3	505.8	463.4	428.8	403.1	386.3	378.4	377.4
45°	722.2	710.4	657.0	588.8	525.6	472.3	431.7	402.1	383.3	374.4	373.5
47.5°	808.2	801.2	728.1	627.4	545.4	482.1	433.7	399.1	377.4	364.6	364.6
50°	899.1	882.3	799.3	673.8	566.1	489.0	433.7	394.2	367.5	353.7	351.7
52.5°	987.0	970.2	871.4	720.2	588.8	496.0	431.7	387.3	358.6	343.8	341.8
55°	1062.1	1048.2	941.5	772.6	612.5	500.9	428.8	379.4	349.7	335.9	333.9
57.5°	1131.2	1117.4	1002.8	817.1	635.3	503.9	421.9	369.5	338.9	325.0	324.1
60°	1181.6	1170.8	1055.2	858.6	654.0	503.9	412.0	357.6	327.0	313.2	312.2
62.5°	1215.2	1204.3	1092.7	886.2	665.9	497.0	397.2	341.8	312.2	299.4	296.4
65°	1228.1	1218.2	1109.5	897.1	663.9	483.1	377.4	322.1	293.4	280.6	278.6
66°	1229.0	1218.2	1109.5	895.1	659.0	475.2	368.5	313.2	285.5	272.7	270.7
67.5°	1221.1	1211.3	1102.6	885.2	645.1	460.4	350.7	298.4	270.7	257.9	256.9
70°	1184.6	1176.7	1065.0	847.7	612.5	427.8	321.1	269.7	243.0	234.2	231.2
72.5°	1105.5	1096.7	990.0	777.5	559.2	383.3	283.5	236.1	214.4	203.5	202.5
75°	983.0	979.1	875.3	684.7	482.1	330.0	240.1	199.6	181.8	173.9	173.9
77.5°	823.0	815.1	727.2	566.1	396.2	266.8	192.7	162.0	148.2	141.3	142.3
80°	640.2	634.3	560.2	424.8	299.4	200.6	144.2	123.5	113.6	109.7	107.7
82.5°	438.7	422.9	373.5	281.6	194.6	135.4	99.8	86.0	81.0	80.0	79.0
85°	228.2	234.2	196.6	149.2	105.7	75.1	60.3	55.3	53.4	54.3	54.3
87.5°	75.1	77.1	59.3	45.4	34.6	26.7	22.7	21.7	18.8	20.7	21.7
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)