

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: P472217

Luminaire Tested: **CCW-VA-1-730-U-T2**

Issue Date: 01/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P472217  
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-T2  
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T2 DISTRIBUTION LENS  
Light Source: 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2708.6 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

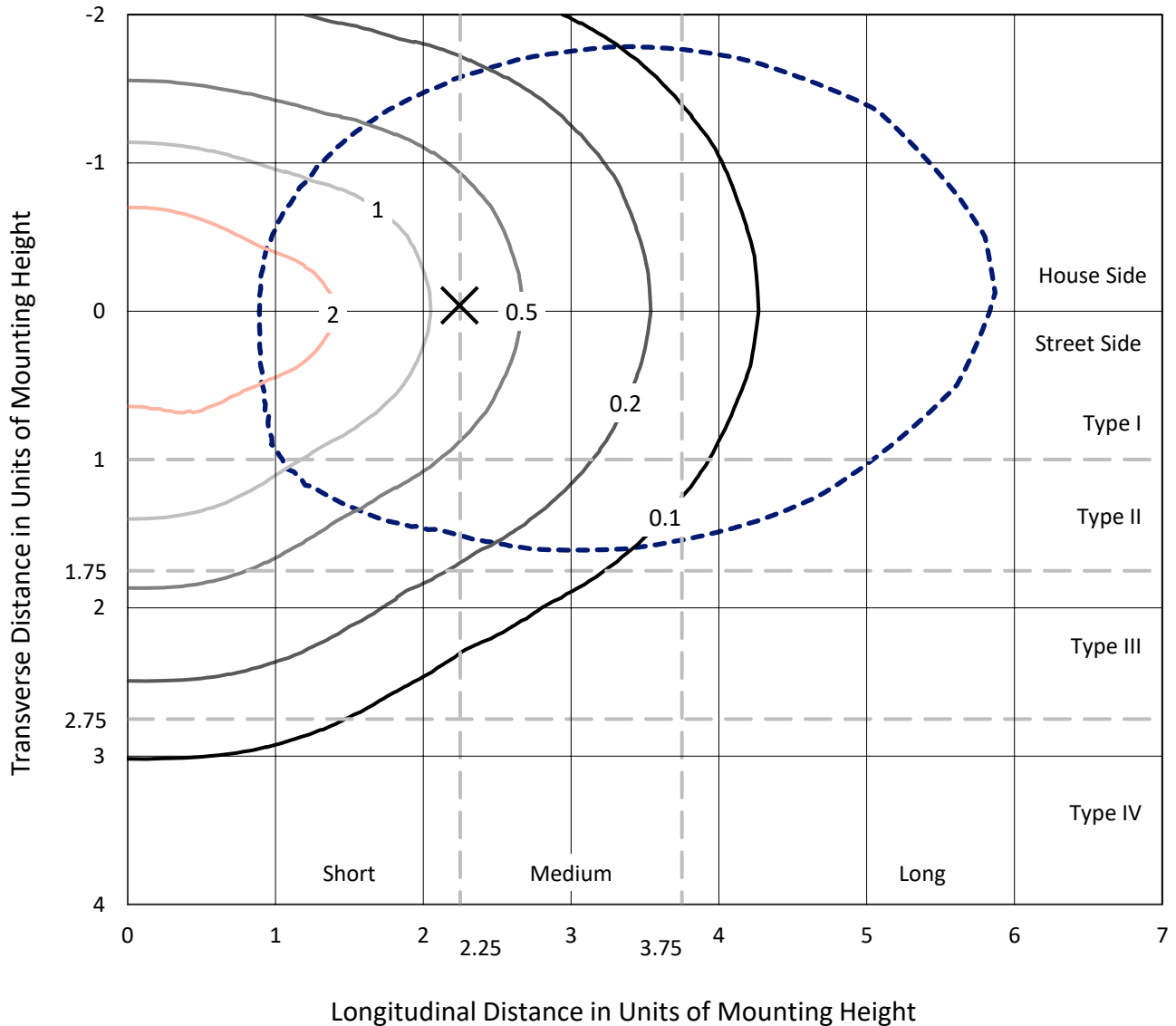
Input Watts (W): 29.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P472217  
 CATALOG NUMBER: CCW-VA-1-730-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

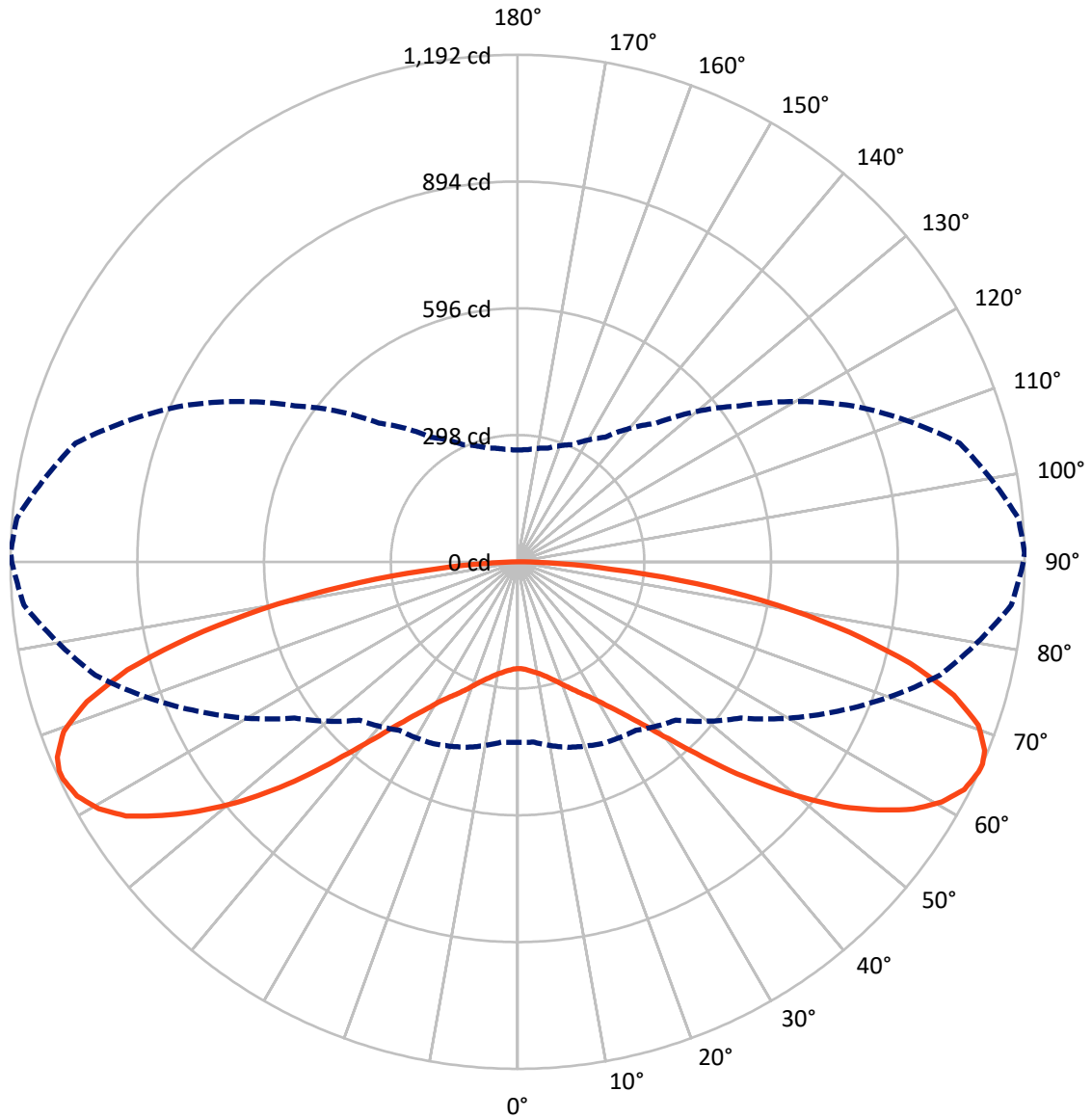
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P472217  
CATALOG NUMBER: CCW-VA-1-730-U-T2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P472217  
 CATALOG NUMBER: CCW-VA-1-730-U-T2

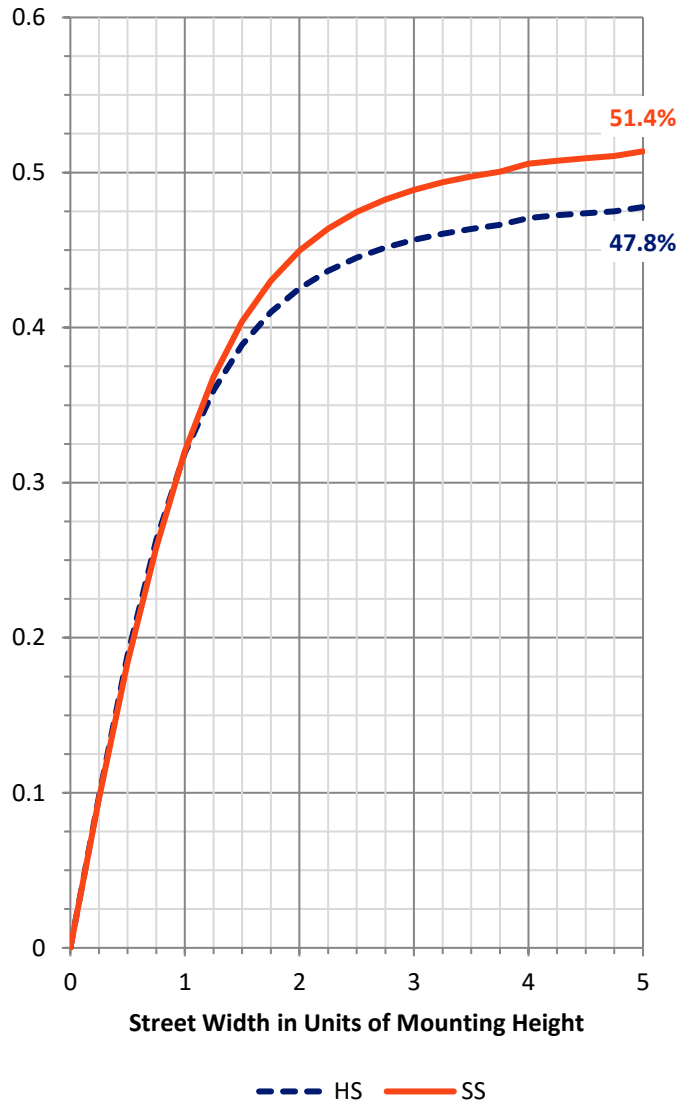
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1307.3	0.0	1307.3
	% Fixture	48.3	0.0	48.3
<b>Street Side</b>	Lumens	1401.3	0.0	1401.3
	% Fixture	51.7	0.0	51.7
<b>Total</b>	Lumens	2708.6	0.0	2708.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.7	0.9
10°-20°	80.8	3.0
20°-30°	156.4	5.8
30°-40°	256.6	9.5
40°-50°	406.4	15.0
50°-60°	560.4	20.7
60°-70°	629.3	23.2
70°-80°	470.3	17.4
80°-90°	123.6	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°	2708.6	100.0
0°-180°	2708.6	100.0

**Coefficient of Utilization**

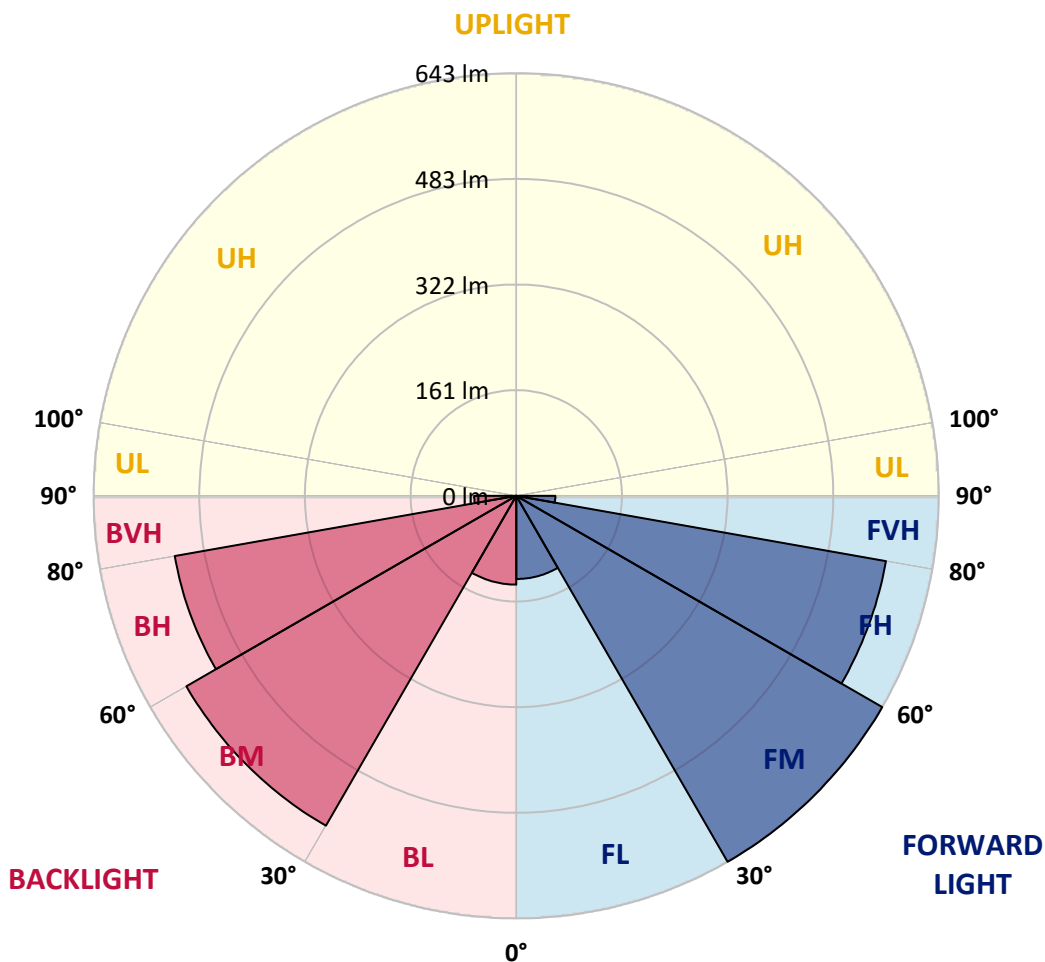


REPORT NUMBER: P472217  
 CATALOG NUMBER: CCW-VA-1-730-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	126.6	4.7			
FM (30°-60°)	643.5	23.8			
FH (60°-80°)	571.7	21.1			G0/660
FVH (80°-90°)	59.5	2.2			G1/100
BL (0°-30°)	135.3	5.0	B1/500		
BM (30°-60°)	579.9	21.4	B1/1000		
BH (60°-80°)	528.0	19.5	B2/1000		G2/1000
BVH (80°-90°)	64.1	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





REPORT NUMBER: P472217  
 CATALOG NUMBER: CCW-VA-1-730-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	251.0	251.0	251.0	251.0	251.0	251.0	251.0	251.0	251.0	251.0	251.0
2.5°	251.9	251.9	251.9	251.9	252.9	252.9	252.9	252.9	252.9	251.9	251.9
5°	253.9	253.9	253.9	253.9	254.8	254.8	254.8	254.8	255.8	255.8	255.8
7.5°	255.8	255.8	256.7	256.7	257.7	257.7	258.6	258.6	259.6	260.6	260.6
10°	259.6	259.6	260.6	260.6	262.5	263.4	264.4	264.4	266.3	266.3	266.3
12.5°	264.4	265.4	266.3	267.3	269.2	270.1	271.1	272.1	273.0	274.0	274.0
15°	272.1	271.1	273.0	274.9	275.9	277.8	278.8	279.7	281.6	283.6	283.6
17.5°	277.8	278.8	279.7	281.6	283.6	286.4	288.3	290.3	292.2	294.1	294.1
20°	285.5	284.5	288.3	291.2	293.1	297.0	299.8	303.7	305.6	307.5	308.5
22.5°	292.2	293.1	295.0	298.9	302.7	308.5	314.2	317.1	320.0	321.9	324.7
25°	300.8	301.8	304.6	308.5	314.2	320.9	327.6	331.4	334.3	338.2	341.0
27.5°	309.4	309.4	314.2	320.0	326.7	335.3	342.9	346.8	351.6	356.4	358.3
30°	319.0	319.0	323.8	331.4	341.0	350.6	357.3	365.0	371.7	376.5	380.3
32.5°	333.4	333.4	339.1	346.8	357.3	368.8	378.4	386.1	394.7	403.3	411.0
35°	349.6	350.6	358.3	367.9	380.3	394.7	403.3	413.8	423.4	437.8	445.4
37.5°	375.5	376.5	385.1	397.5	410.0	425.3	439.7	452.1	466.5	482.8	488.6
40°	413.8	416.7	425.3	431.1	442.6	454.1	475.1	496.2	521.1	543.2	547.0
42.5°	482.8	479.9	474.2	472.3	475.1	487.6	510.6	543.2	587.2	615.0	615.0
45°	509.6	509.6	510.6	508.7	506.8	515.4	542.2	593.9	656.2	694.5	702.2
47.5°	514.4	515.4	524.0	531.7	533.6	543.2	575.7	643.7	727.1	783.6	788.4
50°	514.4	516.3	527.8	541.2	550.8	564.2	604.5	687.8	797.0	862.1	874.6
52.5°	512.5	514.4	526.9	543.2	558.5	577.6	629.4	733.8	859.3	947.4	953.2
55°	507.7	509.6	525.0	542.2	559.4	585.3	649.5	773.1	919.6	1018.3	1028.8
57.5°	502.0	504.8	521.1	539.3	555.6	587.2	662.9	803.7	968.5	1081.5	1100.7
60°	490.5	495.3	513.5	531.7	547.0	580.5	669.6	827.7	1004.9	1127.5	1146.7
62.5°	467.5	472.3	492.4	512.5	527.8	564.2	665.8	839.2	1026.0	1156.2	1176.4
65°	438.7	440.7	462.7	483.8	499.1	537.4	649.5	837.2	1030.7	1165.8	1188.8
66°	424.4	425.3	451.2	471.3	483.8	525.9	639.9	830.5	1027.9	1164.9	1188.8
67.5°	398.5	403.3	425.3	446.4	460.8	500.0	616.9	815.2	1016.4	1155.3	1180.2
70°	353.5	357.3	375.5	396.6	411.9	449.3	567.1	770.2	974.2	1116.0	1144.7
72.5°	304.6	307.5	326.7	342.0	351.6	391.8	506.8	696.4	900.5	1042.2	1070.0
75°	252.9	254.8	272.1	282.6	291.2	326.7	426.3	601.6	784.6	922.5	958.9
77.5°	199.3	200.2	214.6	224.2	224.2	254.8	338.2	487.6	643.7	771.1	798.0
80°	146.6	145.6	154.2	159.0	161.9	182.0	243.3	358.3	490.5	590.1	616.0
82.5°	95.8	94.8	100.6	102.5	102.5	115.0	153.3	227.0	321.9	400.4	415.7
85°	50.8	52.7	51.7	51.7	51.7	56.5	76.6	118.8	171.5	214.6	225.1
87.5°	8.6	8.6	8.6	9.6	11.5	15.3	20.1	33.5	48.9	66.1	74.7
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: P472217  
 CATALOG NUMBER: CCW-VA-1-730-U-T2

**CANDELA DISTRIBUTION (continued):**

	91°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	251.0	251.0	251.0	251.0	251.0	251.0	251.0	251.0	251.0	251.0	251.0
2.5°	251.9	252.9	252.9	252.9	252.9	252.9	252.9	252.9	252.9	252.9	252.9
5°	255.8	255.8	255.8	256.7	256.7	256.7	256.7	256.7	256.7	256.7	256.7
7.5°	260.6	260.6	261.5	261.5	261.5	262.5	262.5	261.5	261.5	261.5	261.5
10°	266.3	266.3	267.3	268.2	268.2	269.2	269.2	268.2	268.2	267.3	267.3
12.5°	274.0	274.9	275.9	276.8	277.8	277.8	276.8	275.9	274.9	274.0	274.0
15°	283.6	284.5	285.5	287.4	287.4	287.4	286.4	285.5	283.6	282.6	283.6
17.5°	295.0	296.0	297.9	298.9	299.8	298.9	298.9	297.9	297.9	297.0	297.0
20°	309.4	310.4	313.2	314.2	314.2	315.2	318.0	320.0	322.8	323.8	323.8
22.5°	323.8	325.7	328.6	332.4	334.3	338.2	339.1	341.0	340.1	337.2	337.2
25°	341.0	342.9	348.7	353.5	357.3	359.2	357.3	354.4	349.6	345.8	344.9
27.5°	359.2	362.1	370.7	377.4	379.3	377.4	369.8	363.1	357.3	352.5	350.6
30°	382.2	387.0	396.6	400.4	399.5	391.8	380.3	371.7	363.1	357.3	356.4
32.5°	411.0	415.7	424.4	425.3	419.6	405.2	389.9	378.4	367.9	361.1	360.2
35°	445.4	450.2	455.0	452.1	435.9	417.7	398.5	382.2	371.7	364.0	364.0
37.5°	489.5	492.4	492.4	478.0	453.1	429.2	405.2	386.1	374.6	366.9	365.9
40°	547.0	546.0	532.6	504.8	472.3	439.7	410.0	389.9	375.5	367.9	366.9
42.5°	616.0	609.3	580.5	535.5	490.5	449.3	415.7	390.8	374.6	366.9	365.9
45°	700.3	688.8	637.0	570.9	509.6	457.9	418.6	389.9	371.7	363.1	362.1
47.5°	783.6	776.9	706.0	608.3	528.8	467.5	420.5	387.0	365.9	353.5	353.5
50°	871.7	855.4	775.0	653.3	548.9	474.2	420.5	382.2	356.4	342.9	341.0
52.5°	957.0	940.7	844.9	698.3	570.9	480.9	418.6	375.5	347.7	333.4	331.4
55°	1029.8	1016.4	912.9	749.1	593.9	485.7	415.7	367.9	339.1	325.7	323.8
57.5°	1096.8	1083.4	972.3	792.2	616.0	488.6	409.0	358.3	328.6	315.2	314.2
60°	1145.7	1135.2	1023.1	832.5	634.2	488.6	399.5	346.8	317.1	303.7	302.7
62.5°	1178.3	1167.7	1059.5	859.3	645.7	481.8	385.1	331.4	302.7	290.3	287.4
65°	1190.7	1181.1	1075.8	869.8	643.7	468.4	365.9	312.3	284.5	272.1	270.1
66°	1191.7	1181.1	1075.8	867.9	638.9	460.8	357.3	303.7	276.8	264.4	262.5
67.5°	1184.0	1174.4	1069.1	858.3	625.5	446.4	340.1	289.3	262.5	250.0	249.1
70°	1148.6	1140.9	1032.7	821.9	593.9	414.8	311.3	261.5	235.7	227.0	224.2
72.5°	1071.9	1063.3	959.9	753.9	542.2	371.7	274.9	228.9	207.9	197.3	196.4
75°	953.2	949.3	848.7	663.9	467.5	320.0	232.8	193.5	176.3	168.6	168.6
77.5°	798.0	790.3	705.0	548.9	384.1	258.6	186.8	157.1	143.7	137.0	137.9
80°	620.7	615.0	543.2	411.9	290.3	194.5	139.9	119.7	110.2	106.3	104.4
82.5°	425.3	410.0	362.1	273.0	188.7	131.2	96.8	83.3	78.6	77.6	76.6
85°	221.3	227.0	190.6	144.6	102.5	72.8	58.4	53.6	51.7	52.7	52.7
87.5°	72.8	74.7	57.5	44.1	33.5	25.9	22.0	21.1	18.2	20.1	21.1
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)