

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: P472147

Luminaire Tested: **CCP-VA-1-730-U-T4W**

Issue Date: 01/27/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P472147  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-VA-1-730-U-T4W  
Description: INVUE CLEARCURVE POLE MOUNT Wave Stream LUMINAIRE WITH T4W  
DISTRIBUTION LENS  
Light Source: 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

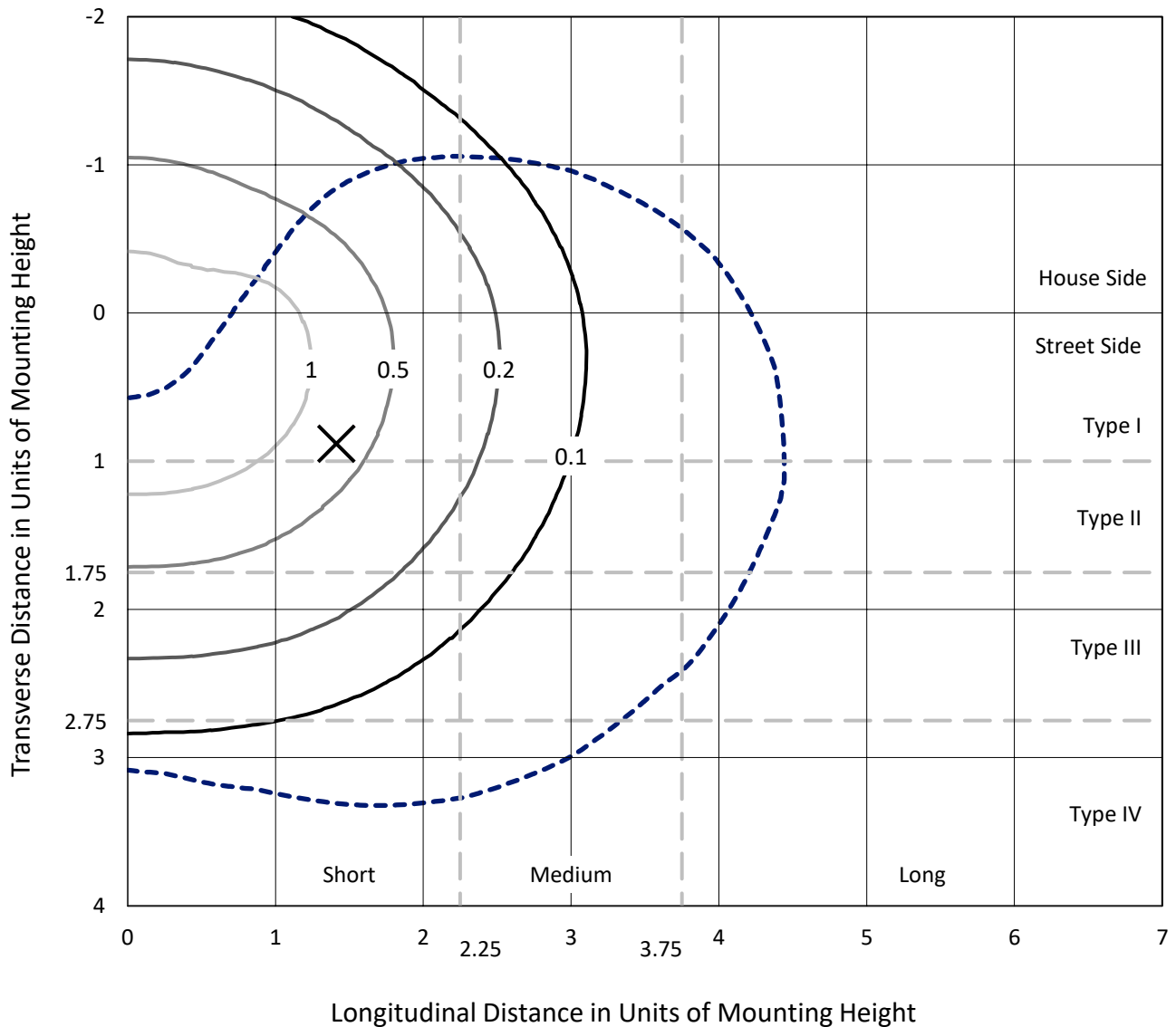
Lumens per Lamp: N/A  
Luminaire Lumens: 3122 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 29  
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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

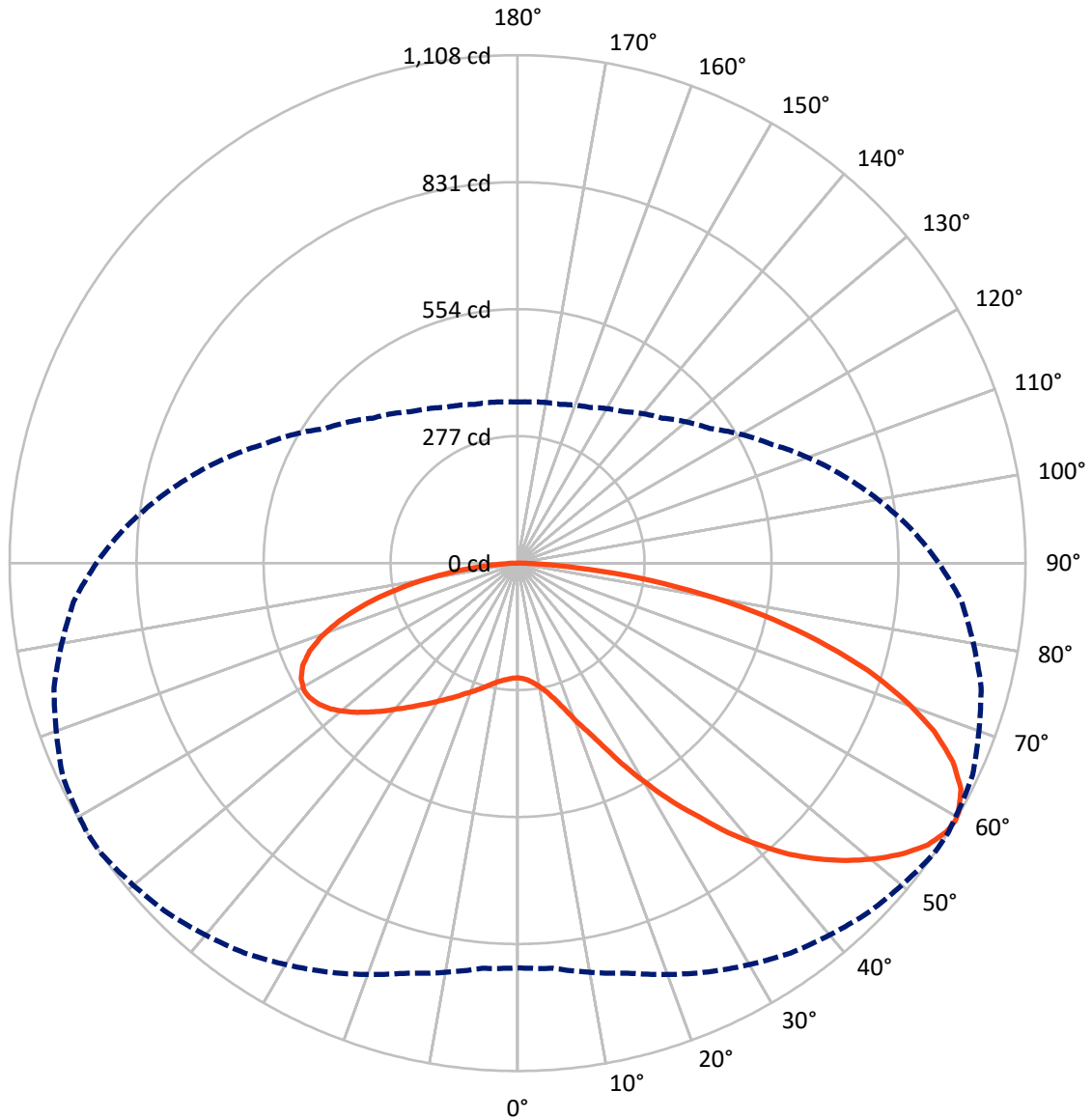
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 59-Deg Vertical

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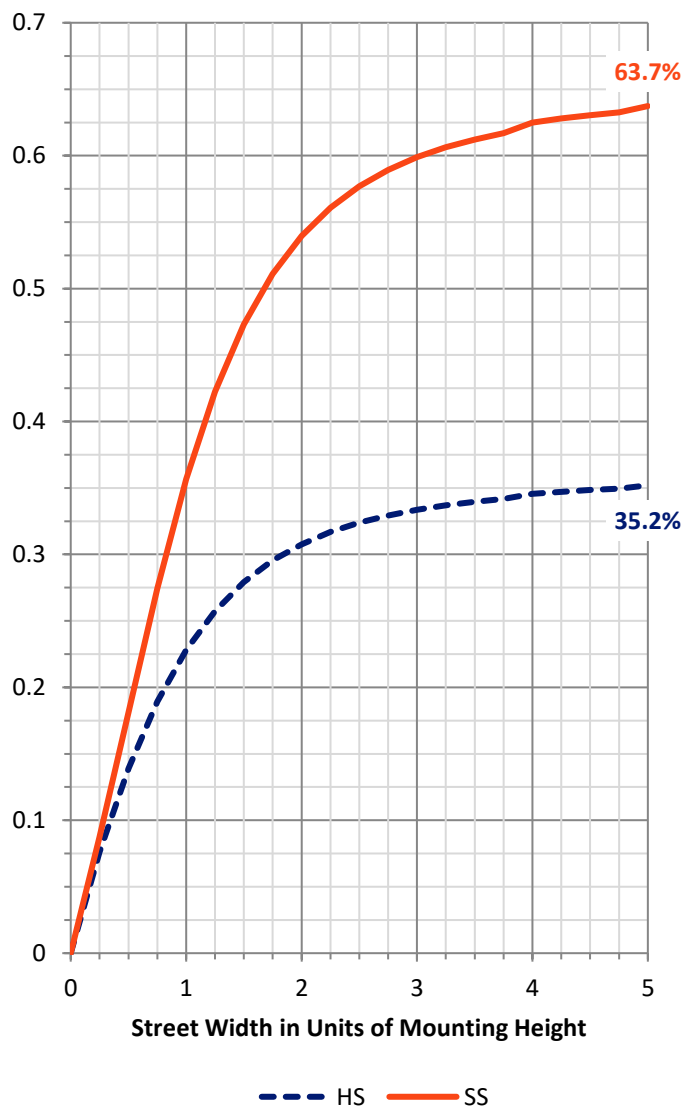
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1113.4	0.0	1113.4
	% Fixture	35.7	0.0	35.7
<b>Street Side</b>	Lumens	2008.6	0.0	2008.6
	% Fixture	64.3	0.0	64.3
<b>Total</b>	Lumens	3122.0	0.0	3122.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.8	0.8
10°-20°	84.7	2.7
20°-30°	178.7	5.7
30°-40°	328.9	10.5
40°-50°	512.7	16.4
50°-60°	673.7	21.6
60°-70°	706.0	22.6
70°-80°	489.5	15.7
80°-90°	122.9	3.9
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°	3122.0	100.0
0°-180°	3122.0	100.0



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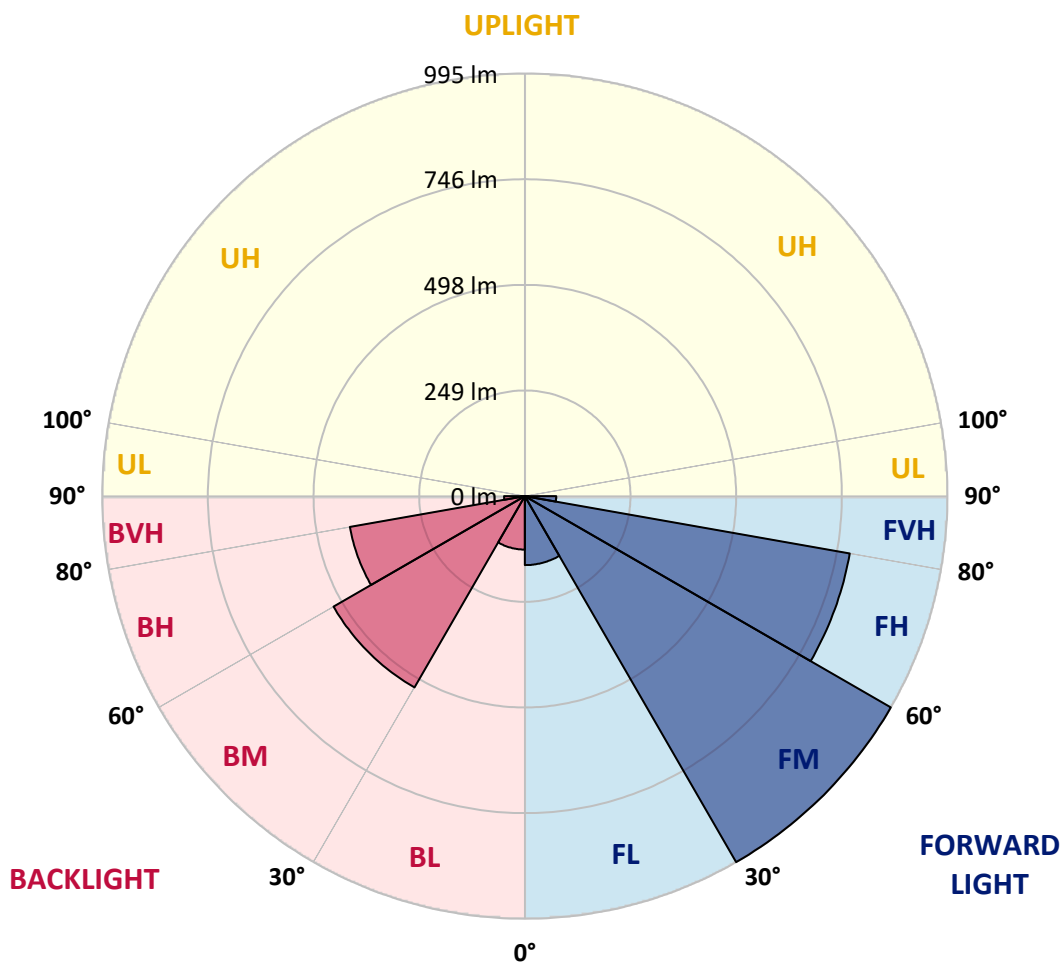
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	162.4	5.2			
FM (30°-60°)	995.2	31.9			
FH (60°-80°)	777.1	24.9			G1/1800
FVH (80°-90°)	73.9	2.4			G1/100
BL (0°-30°)	125.8	4.0	B1/500		
BM (30°-60°)	520.2	16.7	B1/1000		
BH (60°-80°)	418.3	13.4	B1/500		G1/500
BVH (80°-90°)	49.1	1.6			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°	45°	55°	58°	65°	75°	85°
0°	250.3	250.3	250.3	250.3	250.3	250.3	250.3	250.3	250.3	250.3	250.3
2.5°	253.8	253.8	253.8	253.1	253.1	253.1	252.4	252.4	252.4	251.7	251.0
5°	259.4	259.4	258.7	259.4	258.7	258.0	257.3	257.3	257.3	256.6	255.9
7.5°	267.1	267.9	267.1	267.9	267.1	266.4	265.0	265.0	264.3	262.9	261.5
10°	279.1	279.1	279.1	278.4	277.7	277.0	276.3	275.6	274.9	272.8	270.7
12.5°	293.9	293.9	293.9	292.5	292.5	291.1	290.3	289.6	288.2	285.4	282.6
15°	312.1	311.4	313.5	313.5	312.8	312.8	310.7	309.3	307.9	303.7	297.4
17.5°	336.7	336.0	338.2	339.6	339.6	340.3	336.7	335.3	330.4	324.8	316.4
20°	369.8	368.4	370.5	371.9	370.5	371.9	368.4	369.1	362.1	352.2	338.9
22.5°	405.6	405.6	407.8	407.8	408.5	409.9	405.6	403.5	397.9	383.8	367.0
25°	449.9	453.4	453.4	453.4	456.3	457.0	452.7	449.2	441.5	422.5	399.3
27.5°	504.1	503.4	502.7	506.9	506.9	508.3	505.5	504.1	494.9	471.7	436.6
30°	561.7	557.5	560.3	561.7	564.5	566.6	563.8	559.6	548.4	523.0	479.5
32.5°	614.4	617.3	621.5	622.9	627.1	627.8	620.8	620.8	609.5	577.2	532.2
35°	674.2	674.2	685.4	690.4	690.4	694.6	684.0	678.4	670.7	636.9	580.0
37.5°	726.2	727.6	736.8	748.0	749.4	755.7	748.0	745.9	731.8	697.4	634.1
40°	774.7	776.1	787.4	800.7	808.5	818.3	810.6	807.1	792.3	752.9	688.3
42.5°	812.7	815.5	829.6	849.2	861.9	873.9	870.3	868.2	847.8	806.4	738.2
45°	841.5	846.4	866.1	889.3	906.9	924.5	925.2	921.0	902.0	855.6	786.7
47.5°	864.7	870.3	892.1	921.7	948.4	970.2	974.4	969.5	951.9	903.4	830.3
50°	883.7	886.5	911.1	949.1	982.1	1009.5	1018.0	1013.8	998.3	943.5	868.2
52.5°	893.5	897.8	925.9	969.5	1009.5	1042.6	1055.2	1053.1	1034.8	980.0	902.0
55°	898.5	902.7	935.7	985.6	1030.6	1069.3	1084.8	1085.5	1067.9	1013.1	933.6
57.5°	892.8	898.5	934.3	989.9	1039.8	1081.2	1105.1	1104.4	1090.4	1038.4	960.3
59°	883.0	887.2	925.9	984.2	1038.4	1079.8	1107.3	1108.0	1095.3	1046.8	972.3
60°	871.7	876.7	916.0	977.2	1032.7	1074.9	1103.7	1105.1	1094.6	1048.9	977.2
62.5°	833.1	839.4	883.0	948.4	1008.8	1048.9	1083.4	1085.5	1079.8	1043.3	980.7
65°	778.9	784.6	831.7	901.3	964.5	1006.0	1038.4	1043.3	1042.6	1018.0	966.7
67.5°	712.9	713.6	757.9	833.8	899.9	940.6	971.6	980.0	986.3	970.2	925.2
70°	633.4	632.7	675.6	750.8	816.9	859.8	890.7	896.4	912.5	899.9	863.3
72.5°	535.0	543.4	583.5	646.8	712.2	760.0	787.4	797.9	807.1	809.9	779.6
75°	442.2	451.3	483.0	542.0	598.3	642.6	672.1	677.0	693.9	698.1	670.0
77.5°	353.6	354.3	377.5	424.6	475.9	512.5	536.4	549.1	558.2	566.6	537.1
80°	248.2	251.7	267.9	301.6	341.7	380.3	400.0	408.5	414.8	420.4	410.6
82.5°	155.4	156.8	167.3	187.7	215.1	236.9	257.3	264.3	265.7	278.4	277.0
85°	73.8	74.5	81.6	91.4	103.3	120.9	128.7	128.7	138.5	147.6	147.6
87.5°	9.8	9.8	12.0	13.4	16.9	21.8	30.2	30.9	36.6	40.8	44.3
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°	250.3	250.3	250.3	250.3	250.3	250.3	250.3	250.3	250.3	250.3	250.3
2.5°	251.0	251.0	251.0	251.0	251.0	250.3	251.0	251.0	251.0	251.0	251.0
5°	255.9	255.2	254.5	253.8	253.8	253.1	253.1	253.1	253.1	253.1	253.1
7.5°	260.8	260.1	259.4	258.0	257.3	256.6	256.6	255.9	255.9	255.9	255.9
10°	269.3	268.6	265.7	263.6	262.2	261.5	260.8	260.1	259.4	259.4	259.4
12.5°	280.5	279.1	274.2	271.4	269.3	267.9	266.4	265.7	265.0	264.3	264.3
15°	294.6	291.1	284.7	280.5	277.7	275.6	273.5	272.1	271.4	270.7	270.7
17.5°	311.4	307.2	298.8	291.1	286.1	282.6	279.8	277.7	277.0	277.0	277.0
20°	332.5	325.5	313.5	303.0	295.3	290.3	286.1	284.0	283.3	282.6	281.9
22.5°	357.1	348.0	330.4	314.2	304.4	297.4	292.5	289.6	287.5	286.8	286.8
25°	385.3	371.9	348.7	329.0	315.7	305.8	299.5	296.0	292.5	291.1	291.1
27.5°	419.0	401.4	370.5	344.5	326.2	314.2	307.2	302.3	298.8	296.0	294.6
30°	455.6	435.9	394.4	361.4	338.2	324.8	316.4	310.7	305.8	300.9	300.2
32.5°	502.0	473.8	423.2	380.3	352.2	335.3	325.5	318.5	312.1	307.2	305.8
35°	549.1	515.3	453.4	400.0	365.6	345.2	333.2	325.5	319.2	313.5	312.8
37.5°	597.6	561.7	486.5	423.2	381.0	356.4	341.7	333.2	325.5	319.9	319.2
40°	648.2	606.0	520.2	447.1	397.2	367.7	350.8	340.3	331.8	326.9	326.2
42.5°	696.0	650.3	556.8	475.2	416.2	379.6	359.9	348.7	338.2	333.2	332.5
45°	741.7	692.5	593.3	501.3	435.2	392.3	369.1	355.7	344.5	339.6	338.9
47.5°	783.2	734.0	627.1	529.4	454.9	406.3	378.9	362.8	350.1	345.2	345.2
50°	820.4	769.1	660.1	555.4	473.1	420.4	387.4	369.1	356.4	351.5	350.8
52.5°	855.6	800.0	689.0	577.9	490.7	433.1	395.8	374.0	360.6	355.0	354.3
55°	883.7	828.2	712.9	596.2	502.7	441.5	401.4	376.8	362.1	357.1	356.4
57.5°	908.3	851.4	729.7	608.8	510.4	446.4	404.2	376.8	361.4	355.7	355.0
59°	918.8	861.2	735.4	612.3	511.8	447.1	403.5	374.7	358.5	352.9	351.5
60°	924.5	865.4	737.5	613.0	511.1	445.7	402.8	372.6	355.7	349.4	349.4
62.5°	930.1	868.9	734.7	607.4	503.4	438.0	395.8	364.2	345.2	338.2	338.2
65°	918.1	856.3	718.5	591.9	487.9	424.6	382.4	350.1	329.0	322.0	322.0
67.5°	883.0	825.3	689.0	563.1	462.6	401.4	360.6	327.6	307.9	300.2	298.1
70°	823.2	774.7	642.6	521.6	428.1	371.9	333.2	301.6	281.2	273.5	270.7
72.5°	743.1	695.3	580.7	471.0	382.4	333.2	299.5	269.3	246.8	239.0	239.7
75°	632.7	599.0	500.6	407.0	329.7	284.0	255.9	230.6	211.6	205.3	206.0
77.5°	513.2	485.1	405.6	331.8	269.3	234.1	210.2	189.8	177.2	173.6	171.5
80°	393.0	365.6	304.4	247.5	204.6	180.0	163.8	149.7	139.9	135.0	136.4
82.5°	263.6	246.8	201.8	163.8	139.2	121.6	116.0	106.9	103.3	100.5	102.6
85°	142.0	127.2	105.5	87.9	76.6	71.7	73.1	72.4	69.6	68.9	71.0
87.5°	46.4	40.1	30.9	26.0	26.7	23.9	23.9	22.5	20.4	19.7	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)