

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: P472189

Luminaire Tested: **CCP-VA-1-835-U-T4W**

Issue Date: 01/27/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P472189  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-VA-1-835-U-T4W  
Description: INVUE CLEARCURVE POLE MOUNT Wave Stream LUMINAIRE WITH T4W  
DISTRIBUTION LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

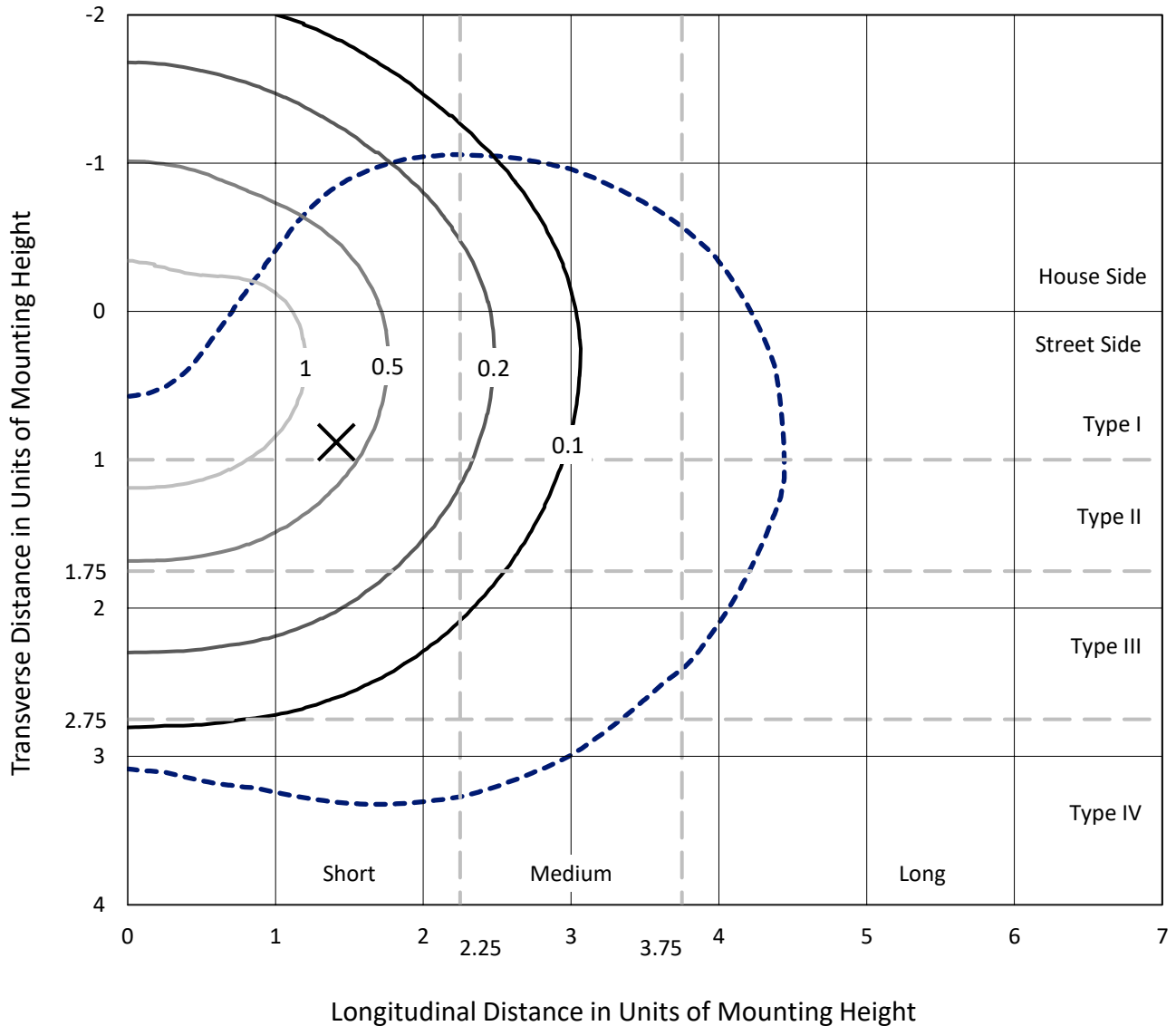
Lumens per Lamp: N/A  
Luminaire Lumens: 2981.9 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

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

REPORT NUMBER: P472189  
 CATALOG NUMBER: CCP-VA-1-835-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

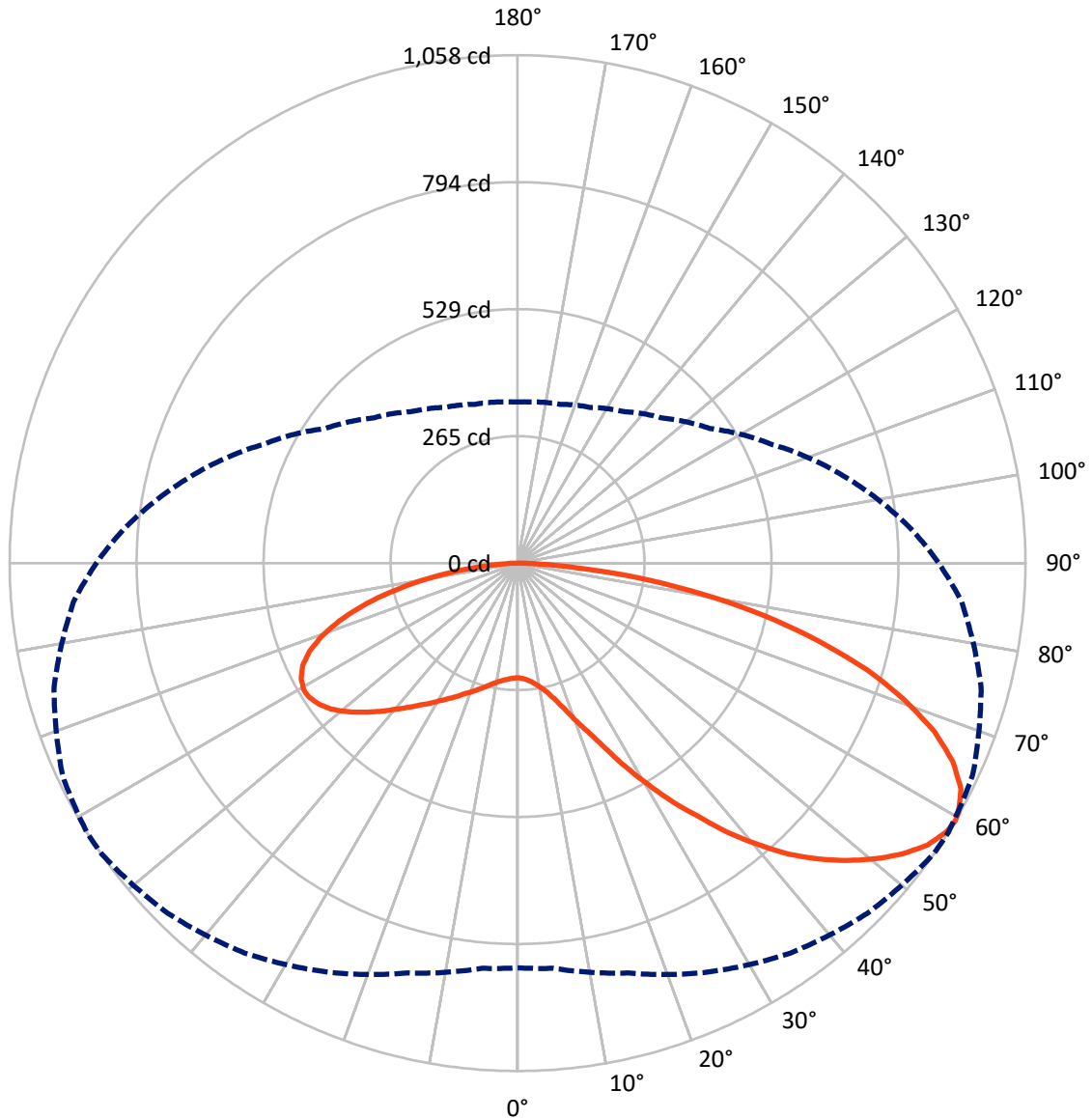
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P472189  
CATALOG NUMBER: CCP-VA-1-835-U-T4W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P472189

CATALOG NUMBER: CCP-VA-1-835-U-T4W

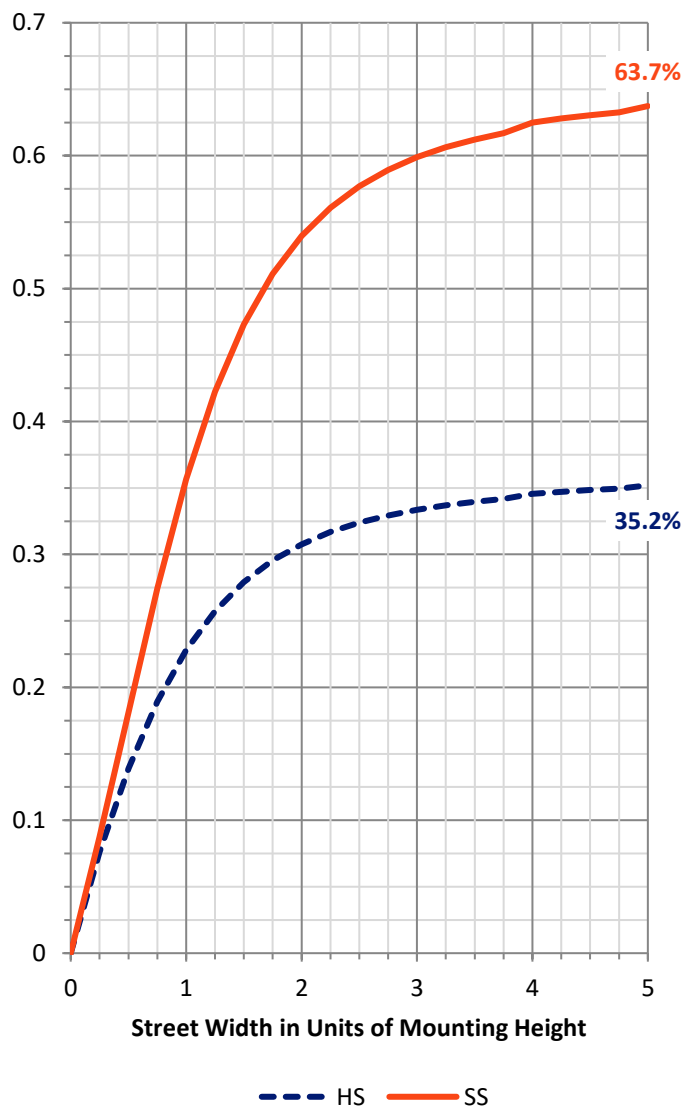
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1063.5	0.0	1063.5
	% Fixture	35.7	0.0	35.7
<b>Street Side</b>	Lumens	1918.5	0.0	1918.5
	% Fixture	64.3	0.0	64.3
<b>Total</b>	Lumens	2981.9	0.0	2981.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.7	0.8
10°-20°	80.9	2.7
20°-30°	170.7	5.7
30°-40°	314.2	10.5
40°-50°	489.7	16.4
50°-60°	643.5	21.6
60°-70°	674.3	22.6
70°-80°	467.5	15.7
80°-90°	117.4	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°	2981.9	100.0
0°-180°	2981.9	100.0



REPORT NUMBER: P472189

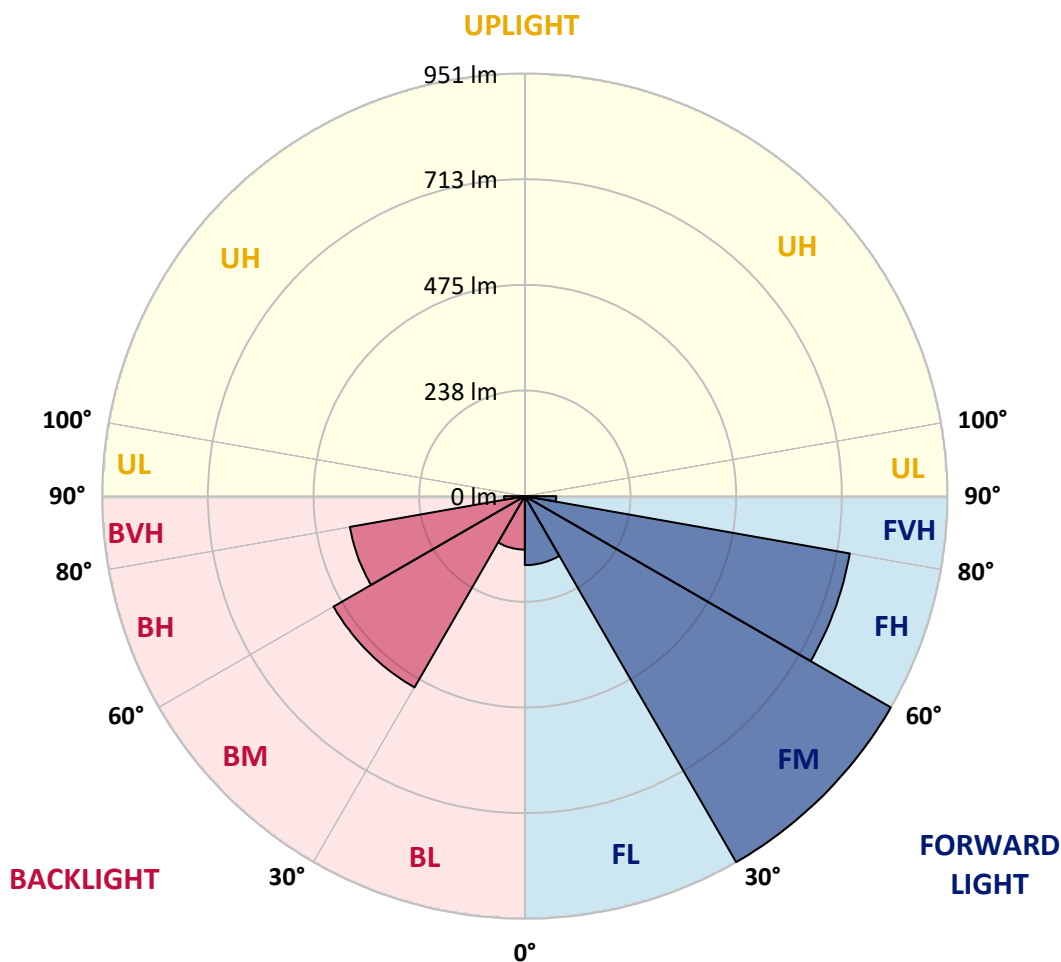
CATALOG NUMBER: CCP-VA-1-835-U-T4W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	155.1	5.2			
FM (30°-60°)	950.6	31.9			
FH (60°-80°)	742.2	24.9			G1/1800
FVH (80°-90°)	70.5	2.4			G1/100
BL (0°-30°)	120.2	4.0	B1/500		
BM (30°-60°)	496.8	16.7	B1/1000		
BH (60°-80°)	399.6	13.4	B1/500		G1/500
BVH (80°-90°)	46.9	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





REPORT NUMBER: P472189  
 CATALOG NUMBER: CCP-VA-1-835-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0
2.5°	242.4	242.4	242.4	241.7	241.7	241.7	241.1	241.1	241.1	240.4	239.7
5°	247.8	247.8	247.1	247.8	247.1	246.4	245.8	245.8	245.8	245.1	244.4
7.5°	255.2	255.8	255.2	255.8	255.2	254.5	253.1	253.1	252.5	251.1	249.8
10°	266.6	266.6	266.6	265.9	265.2	264.6	263.9	263.2	262.5	260.5	258.5
12.5°	280.7	280.7	280.7	279.3	279.3	278.0	277.3	276.6	275.3	272.6	269.9
15°	298.1	297.5	299.5	299.5	298.8	298.8	296.8	295.5	294.1	290.1	284.0
17.5°	321.6	321.0	323.0	324.3	324.3	325.0	321.6	320.3	315.6	310.2	302.2
20°	353.2	351.9	353.9	355.2	353.9	355.2	351.9	352.5	345.8	336.4	323.7
22.5°	387.4	387.4	389.5	389.5	390.1	391.5	387.4	385.4	380.1	366.6	350.5
25°	429.7	433.1	433.1	433.1	435.8	436.5	432.4	429.1	421.7	403.6	381.4
27.5°	481.5	480.8	480.1	484.1	484.1	485.5	482.8	481.5	472.7	450.6	417.0
30°	536.5	532.5	535.2	536.5	539.2	541.2	538.5	534.5	523.8	499.6	457.9
32.5°	586.9	589.6	593.6	594.9	599.0	599.6	592.9	592.9	582.2	551.3	508.3
35°	643.9	643.9	654.7	659.4	659.4	663.4	653.3	648.0	640.6	608.4	554.0
37.5°	693.6	695.0	703.7	714.5	715.8	721.8	714.5	712.4	699.0	666.1	605.7
40°	740.0	741.3	752.1	764.8	772.2	781.6	774.2	770.9	756.8	719.2	657.4
42.5°	776.2	778.9	792.3	811.1	823.2	834.6	831.3	829.3	809.8	770.2	705.1
45°	803.8	808.5	827.3	849.4	866.2	883.0	883.7	879.6	861.5	817.2	751.4
47.5°	825.9	831.3	852.1	880.3	905.8	926.6	930.7	926.0	909.2	862.9	793.0
50°	844.1	846.7	870.2	906.5	938.1	964.2	972.3	968.3	953.5	901.1	829.3
52.5°	853.5	857.5	884.3	926.0	964.2	995.8	1007.9	1005.9	988.4	936.0	861.5
55°	858.2	862.2	893.7	941.4	984.4	1021.3	1036.1	1036.8	1020.0	967.6	891.7
57.5°	852.8	858.2	892.4	945.4	993.1	1032.7	1055.6	1054.9	1041.5	991.8	917.2
59°	843.4	847.4	884.3	940.1	991.8	1031.4	1057.6	1058.3	1046.2	999.8	928.7
60°	832.6	837.3	874.9	933.4	986.4	1026.7	1054.2	1055.6	1045.5	1001.8	933.4
62.5°	795.7	801.7	843.4	905.8	963.6	1001.8	1034.8	1036.8	1031.4	996.5	936.7
65°	744.0	749.4	794.4	860.8	921.3	960.9	991.8	996.5	995.8	972.3	923.3
67.5°	680.9	681.6	723.9	796.4	859.5	898.4	928.0	936.0	942.1	926.6	883.7
70°	605.0	604.3	645.3	717.1	780.3	821.2	850.8	856.1	871.6	859.5	824.6
72.5°	511.0	519.1	557.3	617.8	680.2	725.9	752.1	762.1	770.9	773.5	744.7
75°	422.4	431.1	461.3	517.7	571.4	613.7	641.9	646.6	662.8	666.8	639.9
77.5°	337.8	338.4	360.6	405.6	454.6	489.5	512.3	524.4	533.2	541.2	513.0
80°	237.0	240.4	255.8	288.1	326.3	363.3	382.1	390.1	396.2	401.5	392.1
82.5°	148.4	149.7	159.8	179.3	205.5	226.3	245.8	252.5	253.8	265.9	264.6
85°	70.5	71.2	77.9	87.3	98.7	115.5	122.9	122.9	132.3	141.0	141.0
87.5°	9.4	9.4	11.4	12.8	16.1	20.8	28.9	29.5	34.9	38.9	42.3
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: P472189  
 CATALOG NUMBER: CCP-VA-1-835-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0
2.5°	239.7	239.7	239.7	239.7	239.7	239.0	239.7	239.7	239.7	239.7	239.7
5°	244.4	243.7	243.1	242.4	242.4	241.7	241.7	241.7	241.7	241.7	241.7
7.5°	249.1	248.4	247.8	246.4	245.8	245.1	245.1	244.4	244.4	244.4	244.4
10°	257.2	256.5	253.8	251.8	250.5	249.8	249.1	248.4	247.8	247.8	247.8
12.5°	267.9	266.6	261.9	259.2	257.2	255.8	254.5	253.8	253.1	252.5	252.5
15°	281.4	278.0	271.9	267.9	265.2	263.2	261.2	259.9	259.2	258.5	258.5
17.5°	297.5	293.4	285.4	278.0	273.3	269.9	267.2	265.2	264.6	264.6	264.6
20°	317.6	310.9	299.5	289.4	282.0	277.3	273.3	271.3	270.6	269.9	269.3
22.5°	341.1	332.4	315.6	300.2	290.8	284.0	279.3	276.6	274.6	274.0	274.0
25°	368.0	355.2	333.1	314.3	301.5	292.1	286.1	282.7	279.3	278.0	278.0
27.5°	400.2	383.4	353.9	329.0	311.6	300.2	293.4	288.7	285.4	282.7	281.4
30°	435.1	416.3	376.7	345.1	323.0	310.2	302.2	296.8	292.1	287.4	286.7
32.5°	479.4	452.6	404.2	363.3	336.4	320.3	310.9	304.2	298.1	293.4	292.1
35°	524.4	492.2	433.1	382.1	349.2	329.7	318.3	310.9	304.9	299.5	298.8
37.5°	570.8	536.5	464.7	404.2	363.9	340.4	326.3	318.3	310.9	305.5	304.9
40°	619.1	578.8	496.9	427.1	379.4	351.2	335.1	325.0	316.9	312.2	311.6
42.5°	664.8	621.1	531.8	453.9	397.5	362.6	343.8	333.1	323.0	318.3	317.6
45°	708.4	661.4	566.7	478.8	415.6	374.7	352.5	339.8	329.0	324.3	323.7
47.5°	748.0	701.0	599.0	505.6	434.4	388.1	361.9	346.5	334.4	329.7	329.7
50°	783.6	734.6	630.5	530.5	451.9	401.5	370.0	352.5	340.4	335.7	335.1
52.5°	817.2	764.1	658.1	552.0	468.7	413.6	378.0	357.2	344.5	339.1	338.4
55°	844.1	791.0	680.9	569.4	480.1	421.7	383.4	359.9	345.8	341.1	340.4
57.5°	867.6	813.2	697.0	581.5	487.5	426.4	386.1	359.9	345.1	339.8	339.1
59°	877.6	822.6	702.4	584.9	488.8	427.1	385.4	357.9	342.5	337.1	335.7
60°	883.0	826.6	704.4	585.5	488.2	425.7	384.8	355.9	339.8	333.7	333.7
62.5°	888.4	829.9	701.7	580.2	480.8	418.3	378.0	347.8	329.7	323.0	323.0
65°	877.0	817.9	686.3	565.4	466.0	405.6	365.3	334.4	314.3	307.5	307.5
67.5°	843.4	788.3	658.1	537.9	441.8	383.4	344.5	312.9	294.1	286.7	284.7
70°	786.3	740.0	613.7	498.2	408.9	355.2	318.3	288.1	268.6	261.2	258.5
72.5°	709.8	664.1	554.6	449.9	365.3	318.3	286.1	257.2	235.7	228.3	229.0
75°	604.3	572.1	478.1	388.8	314.9	271.3	244.4	220.2	202.1	196.1	196.7
77.5°	490.2	463.3	387.4	316.9	257.2	223.6	200.8	181.3	169.2	165.9	163.8
80°	375.4	349.2	290.8	236.4	195.4	171.9	156.5	143.0	133.6	128.9	130.3
82.5°	251.8	235.7	192.7	156.5	133.0	116.2	110.8	102.1	98.7	96.0	98.0
85°	135.6	121.5	100.7	83.9	73.2	68.5	69.8	69.2	66.5	65.8	67.8
87.5°	44.3	38.3	29.5	24.8	25.5	22.8	22.8	21.5	19.5	18.8	20.1
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)