

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: P553712

Luminaire Tested: **LXS-VA1-830-U-AST-S**

Issue Date: 7/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553712  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1803-687-17-R2)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: LXS-VA1-830-U-AST-S  
Description: LUXESCAPE OUTDOOR ARCHITECTURAL LUMINAIRE  
80 CRI, 3000K LEDS AND TYPE IV OPTIC, SPIDER MOUNT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1983 lumens  
Efficiency: N/A  
Efficacy: 82.6 lumens/watt  
Luminous Opening: Circular (Dia: 1.62' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 24  
Input Voltage (V): NR  
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: 28.75 FT

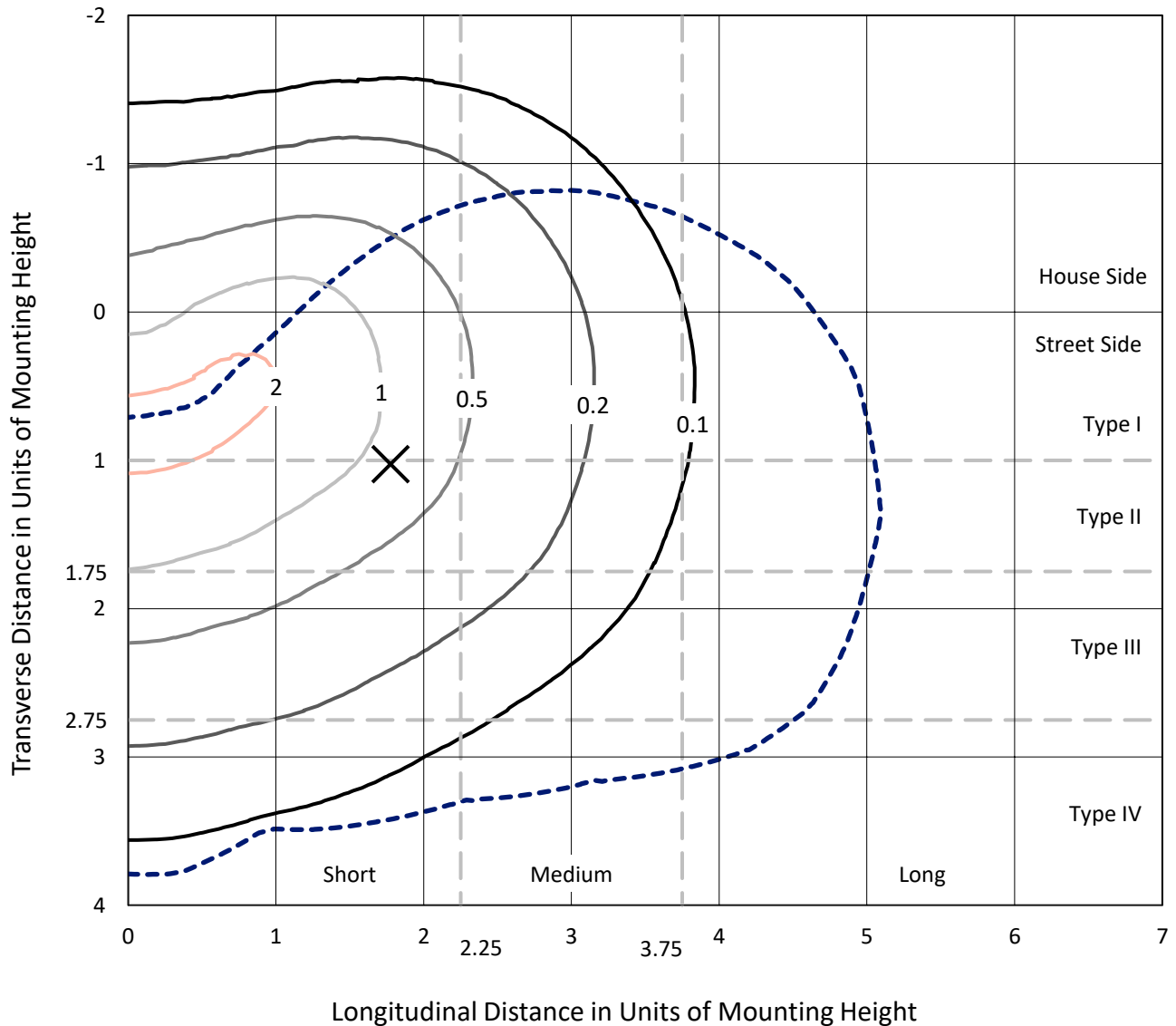


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### Iso-Footcandle Lines of Horizontal Illumination

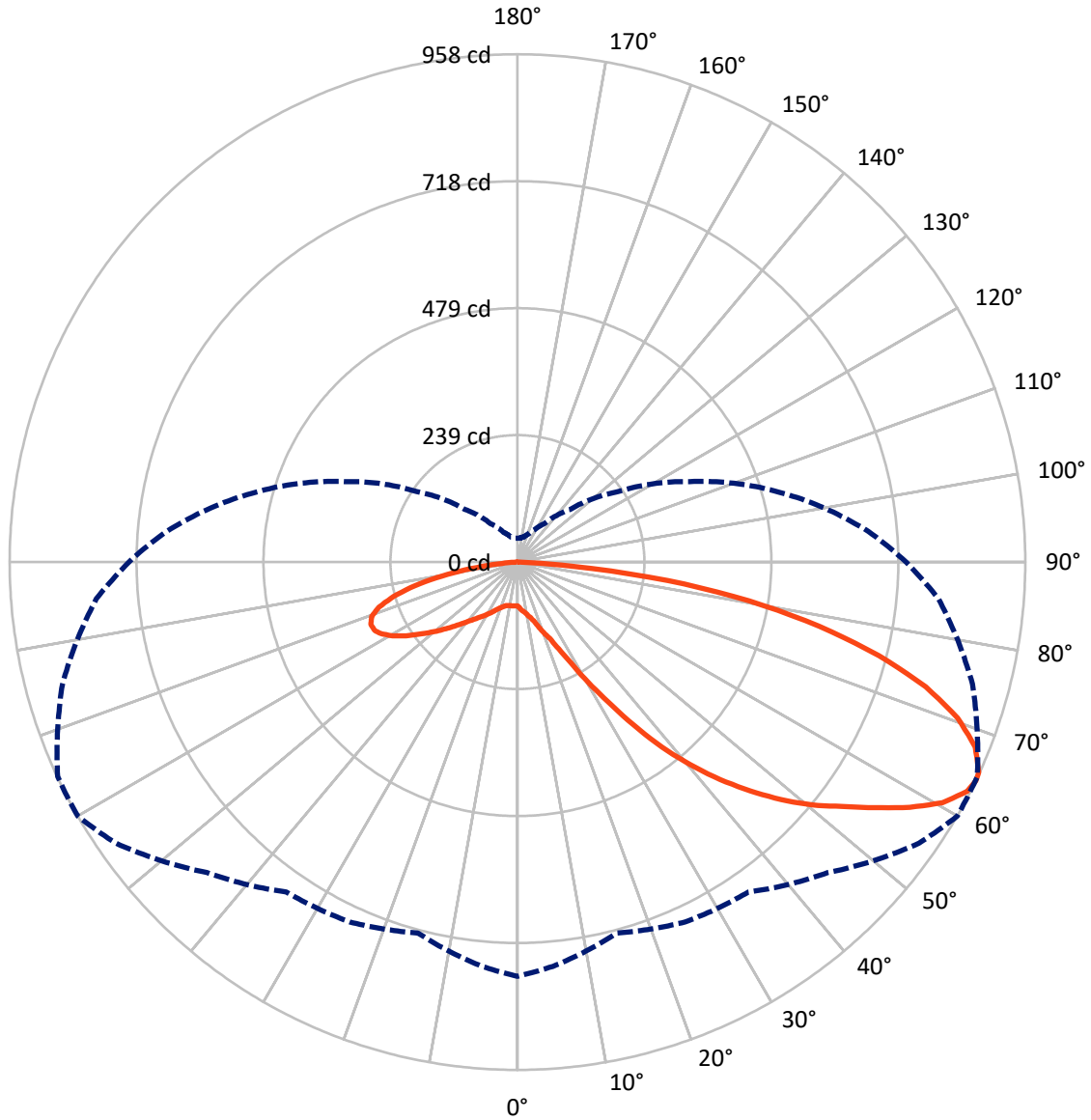
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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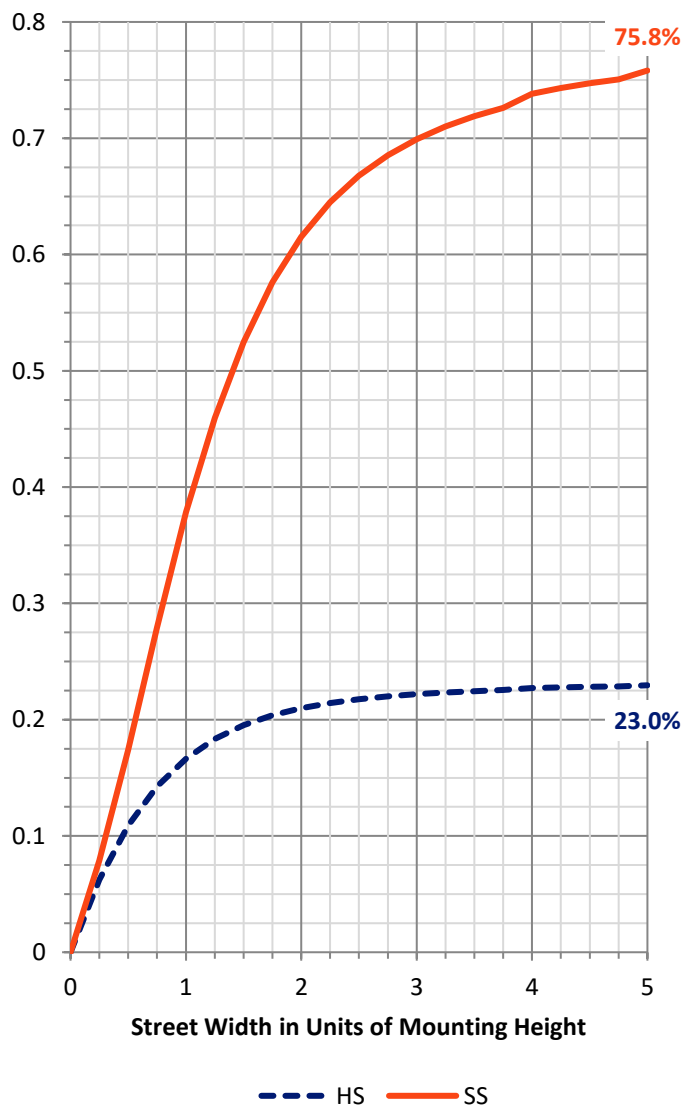
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	458.7	0.0	458.7
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	1524.3	0.0	1524.3
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	1983.0	0.0	1983.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.4	0.4
10°-20°	28.9	1.5
20°-30°	67.8	3.4
30°-40°	158.9	8.0
40°-50°	287.2	14.5
50°-60°	423.7	21.4
60°-70°	514.5	25.9
70°-80°	399.7	20.2
80°-90°	93.8	4.7
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°	1983.0	100.0
0°-180°	1983.0	100.0

**Coefficient of Utilization**



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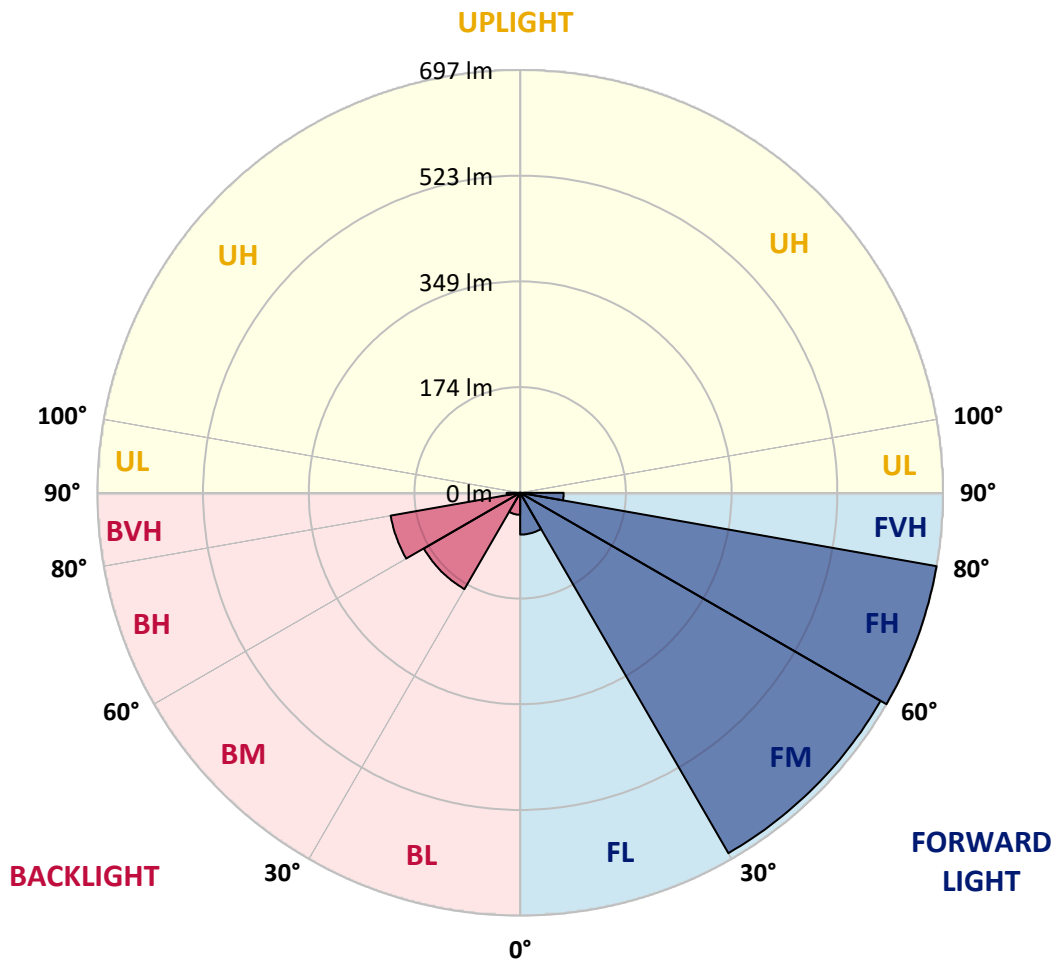
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	68.9	3.5			
FM (30°-60°)	686.3	34.6			
FH (60°-80°)	697.4	35.2			G1/1800
FVH (80°-90°)	71.7	3.6			G1/100
BL (0°-30°)	36.2	1.8	B0/110		
BM (30°-60°)	183.5	9.3	B0/220		
BH (60°-80°)	216.9	10.9	B1/500		G1/500
BVH (80°-90°)	22.1	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°	45°	55°	60°	65°	75°	85°
0°	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
2.5°	90.3	90.3	90.3	89.5	89.5	88.7	87.0	87.0	86.2	85.3	84.5
5°	95.4	95.4	95.4	94.5	94.5	93.7	92.0	92.0	91.2	89.5	87.8
7.5°	99.5	100.4	99.5	99.5	98.7	97.9	96.2	95.4	94.5	92.9	90.3
10°	108.7	107.9	107.1	106.2	104.6	102.9	101.2	100.4	99.5	97.0	93.7
12.5°	117.1	116.3	116.3	114.6	112.9	110.4	107.9	107.1	106.2	102.9	98.7
15°	126.3	126.3	125.5	124.6	123.0	120.5	116.3	114.6	113.8	109.6	102.9
17.5°	142.2	142.2	140.5	139.7	137.2	135.5	130.5	128.0	124.6	119.6	112.1
20°	161.4	161.4	161.4	161.4	156.4	149.7	144.7	142.2	138.0	130.5	122.1
22.5°	184.9	184.9	184.0	185.7	182.4	168.1	159.8	156.4	152.2	144.7	134.7
25°	223.3	224.2	221.7	219.2	210.8	198.3	184.0	181.5	178.2	164.8	152.2
27.5°	255.1	256.0	261.0	260.2	245.1	232.6	222.5	215.8	211.6	188.2	171.5
30°	302.0	302.0	307.8	307.8	295.3	277.7	271.0	262.7	250.1	218.3	192.4
32.5°	384.8	383.1	389.0	366.4	355.5	335.4	327.9	313.7	293.6	256.0	220.0
35°	488.5	486.0	486.0	448.4	418.3	406.5	386.5	377.3	352.2	302.0	253.5
37.5°	542.9	542.9	550.4	514.5	488.5	467.6	450.9	442.5	419.1	358.0	292.8
40°	580.5	583.9	592.3	564.6	548.8	521.1	516.1	502.7	482.7	417.4	339.6
42.5°	608.1	611.5	620.7	603.1	593.9	573.0	573.0	560.5	546.2	476.8	390.7
45°	622.4	624.9	630.7	638.3	624.9	619.0	626.6	615.7	604.0	536.2	446.7
47.5°	651.6	653.3	639.9	649.1	650.0	660.0	673.4	669.2	659.2	590.6	501.1
50°	656.7	659.2	660.0	660.8	677.6	687.6	712.7	720.2	708.5	641.6	556.3
52.5°	678.4	672.6	660.0	687.6	685.1	707.7	747.0	765.4	752.9	691.8	607.3
55°	774.6	757.0	724.4	732.0	726.1	761.2	805.6	817.3	802.2	740.3	653.3
57.5°	809.7	793.0	764.6	770.4	772.9	812.3	867.5	872.5	860.8	788.8	698.5
60°	803.1	785.5	760.4	779.6	788.8	835.7	910.1	921.0	916.0	834.8	745.3
62.5°	799.7	781.3	737.8	768.8	775.5	837.4	926.0	952.0	950.3	872.5	783.0
64°	781.3	765.4	724.4	748.7	759.6	828.2	924.4	957.8	957.0	888.4	797.2
65°	757.0	746.2	711.0	731.1	747.0	817.3	918.5	956.1	954.5	893.4	803.1
67.5°	681.8	678.4	663.4	686.8	712.7	783.8	888.4	931.0	934.4	888.4	803.1
70°	618.2	614.8	599.8	632.4	660.0	731.1	839.0	880.9	885.0	853.2	778.8
72.5°	556.3	555.4	532.0	568.0	592.3	660.0	765.4	805.6	811.4	788.8	726.9
75°	485.2	486.9	464.3	487.7	511.9	572.2	665.0	704.3	709.4	696.0	645.8
77.5°	404.0	404.9	385.6	403.2	427.5	473.5	556.3	582.2	591.4	580.5	536.2
80°	313.7	316.2	297.8	309.5	326.2	363.0	425.8	443.4	444.2	435.8	400.7
82.5°	226.7	218.3	201.6	210.8	227.5	242.6	281.1	286.1	281.9	271.9	244.3
85°	103.7	95.4	96.2	106.2	107.1	98.7	109.6	104.6	102.9	92.9	85.3
87.5°	4.2	3.3	3.3	3.3	2.5	1.7	2.5	1.7	1.7	1.7	1.7
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°	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
2.5°	84.5	83.7	82.8	82.8	82.0	82.0	81.1	81.1	80.3	80.3	80.3
5°	87.0	86.2	84.5	83.7	82.0	81.1	80.3	78.6	77.8	77.8	77.8
7.5°	89.5	87.8	86.2	84.5	82.0	80.3	77.8	76.1	75.3	74.4	74.4
10°	92.0	91.2	87.8	84.5	82.0	78.6	76.1	74.4	73.6	72.8	72.8
12.5°	96.2	94.5	90.3	86.2	82.0	78.6	76.1	73.6	71.1	70.3	70.3
15°	100.4	97.9	92.9	87.0	82.0	78.6	74.4	71.1	68.6	66.9	66.9
17.5°	107.9	105.4	98.7	90.3	84.5	78.6	73.6	69.4	66.9	65.2	65.2
20°	117.9	113.8	104.6	94.5	87.0	79.5	73.6	68.6	64.4	62.7	61.9
22.5°	129.7	124.6	112.1	99.5	89.5	80.3	73.6	67.8	62.7	59.4	59.4
25°	143.9	137.2	120.5	106.2	92.9	82.0	74.4	66.9	61.9	58.6	58.6
27.5°	160.6	151.4	130.5	114.6	97.9	84.5	74.4	66.9	61.9	59.4	58.6
30°	179.0	168.1	142.2	122.1	102.9	86.2	75.3	66.1	61.1	59.4	59.4
32.5°	200.8	187.4	156.4	130.5	107.9	88.7	75.3	65.2	60.2	59.4	59.4
35°	228.4	210.0	171.5	139.7	112.9	91.2	75.3	65.2	60.2	57.7	57.7
37.5°	263.5	237.6	189.9	150.6	118.8	93.7	76.1	66.1	60.2	56.9	56.9
40°	304.5	270.2	211.6	163.1	125.5	97.0	77.8	66.1	60.2	56.9	56.0
42.5°	347.2	308.7	235.9	178.2	133.8	100.4	78.6	66.9	59.4	56.0	55.2
45°	396.5	352.2	264.3	195.7	143.0	104.6	80.3	67.8	58.6	55.2	54.4
47.5°	449.2	398.2	297.0	215.8	152.2	108.7	82.0	67.8	57.7	54.4	53.5
50°	501.1	446.7	334.6	237.6	163.1	113.8	83.7	67.8	57.7	53.5	52.7
52.5°	548.8	492.7	370.6	259.3	174.8	118.8	85.3	67.8	56.9	52.7	51.9
55°	593.9	535.4	406.5	282.7	189.1	124.6	87.0	66.9	56.0	51.9	51.0
57.5°	636.6	577.2	440.8	307.8	203.3	131.3	88.7	66.1	54.4	50.2	50.2
60°	679.3	616.5	471.8	330.4	216.7	135.5	89.5	65.2	53.5	48.5	48.5
62.5°	716.9	650.0	498.6	349.7	227.5	138.9	89.5	63.6	51.0	46.8	46.0
64°	732.8	664.2	510.3	358.9	231.7	140.5	88.7	61.9	49.4	45.2	45.2
65°	740.3	670.0	516.1	363.0	234.2	140.5	87.8	60.2	48.5	44.3	43.5
67.5°	744.5	673.4	521.1	366.4	234.2	138.0	84.5	56.9	45.2	40.2	40.2
70°	723.6	656.7	509.4	358.9	228.4	133.0	78.6	51.9	41.0	36.8	36.8
72.5°	675.9	616.5	478.5	337.1	211.6	123.0	71.9	46.8	36.8	32.6	32.6
75°	599.8	544.6	423.3	297.8	186.5	107.9	62.7	41.0	31.8	29.3	28.4
77.5°	496.1	455.1	350.5	243.4	153.9	87.8	51.0	33.5	26.8	24.3	24.3
80°	367.2	337.1	254.3	177.3	112.9	65.2	38.5	25.9	20.9	19.2	19.2
82.5°	220.0	202.4	148.1	106.2	69.4	41.0	25.9	17.6	15.1	14.2	14.2
85°	76.1	71.1	49.4	39.3	31.8	20.1	13.4	10.0	10.0	8.4	8.4
87.5°	1.7	3.3	3.3	5.0	5.0	5.0	4.2	3.3	4.2	4.2	4.2
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)