

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: P553710

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

Issue Date: 7/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553710  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1803-687-3)  
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-A  
Description: LUXESCAPE OUTDOOR ARCHITECTURAL LUMINAIRE  
80 CRI, 3000K LEDS AND TYPE IV OPTIC, ARM MOUNT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2166 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Circular (Dia: 1.62' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

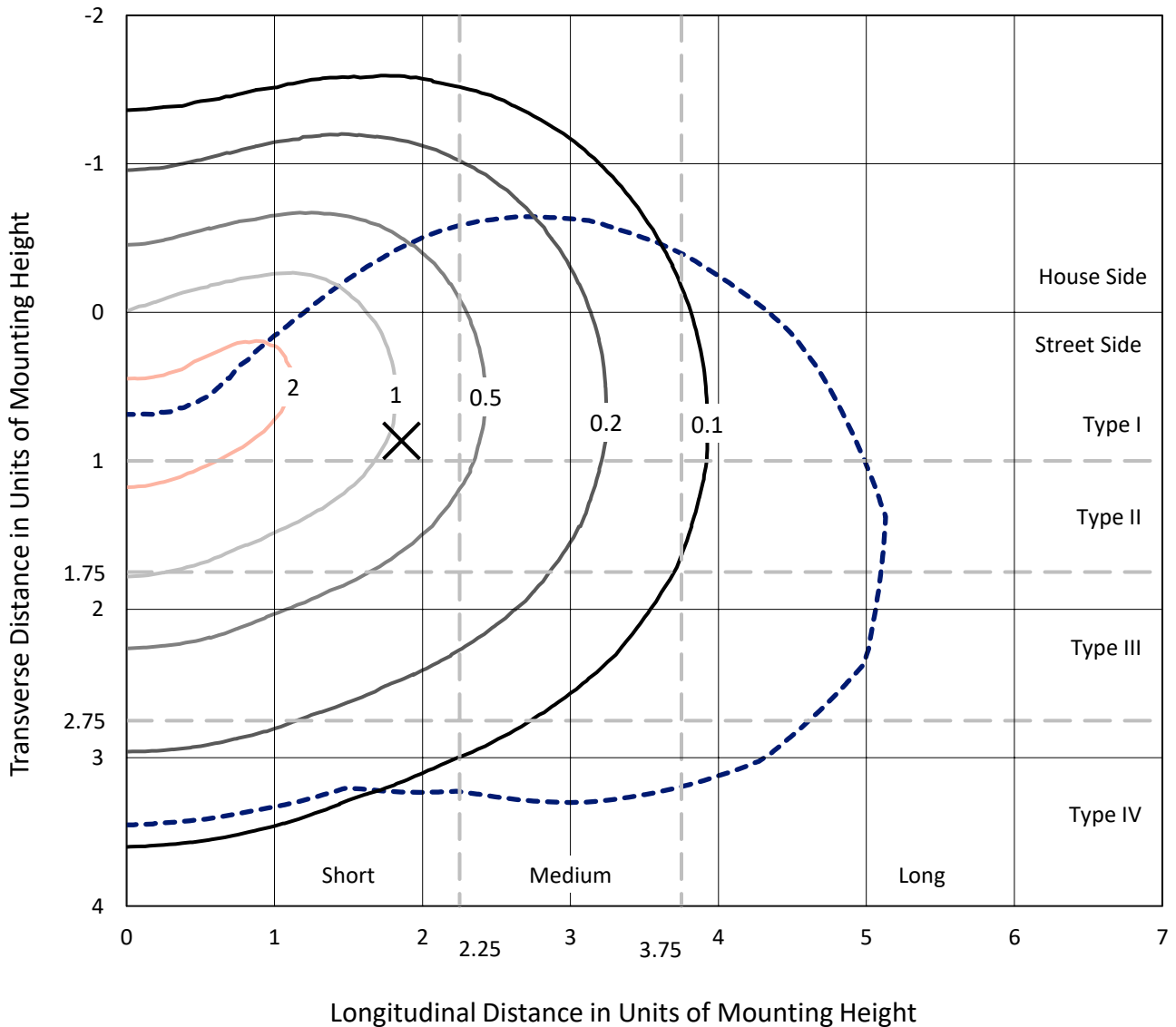
Input Watts (W): 24  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

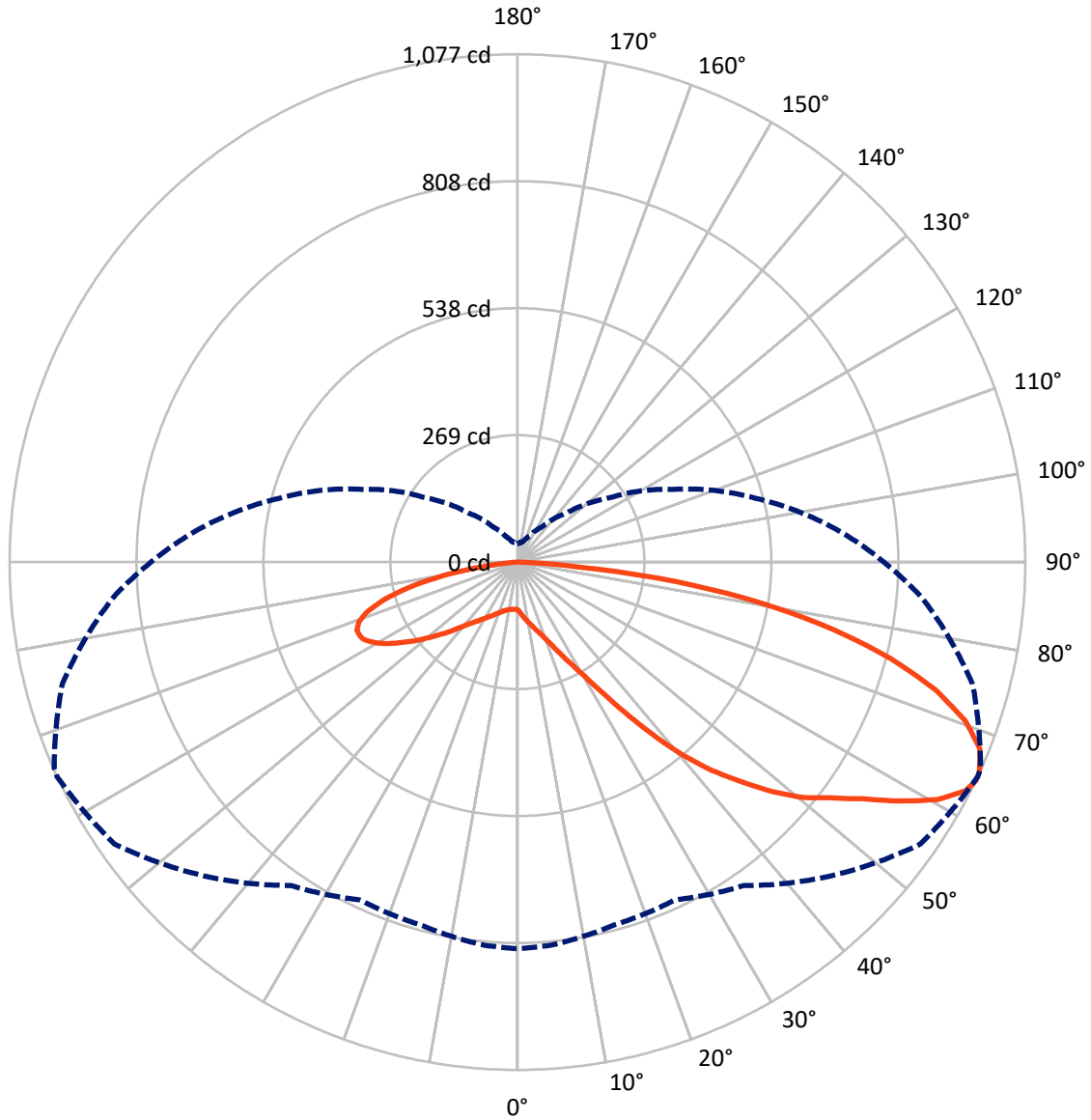
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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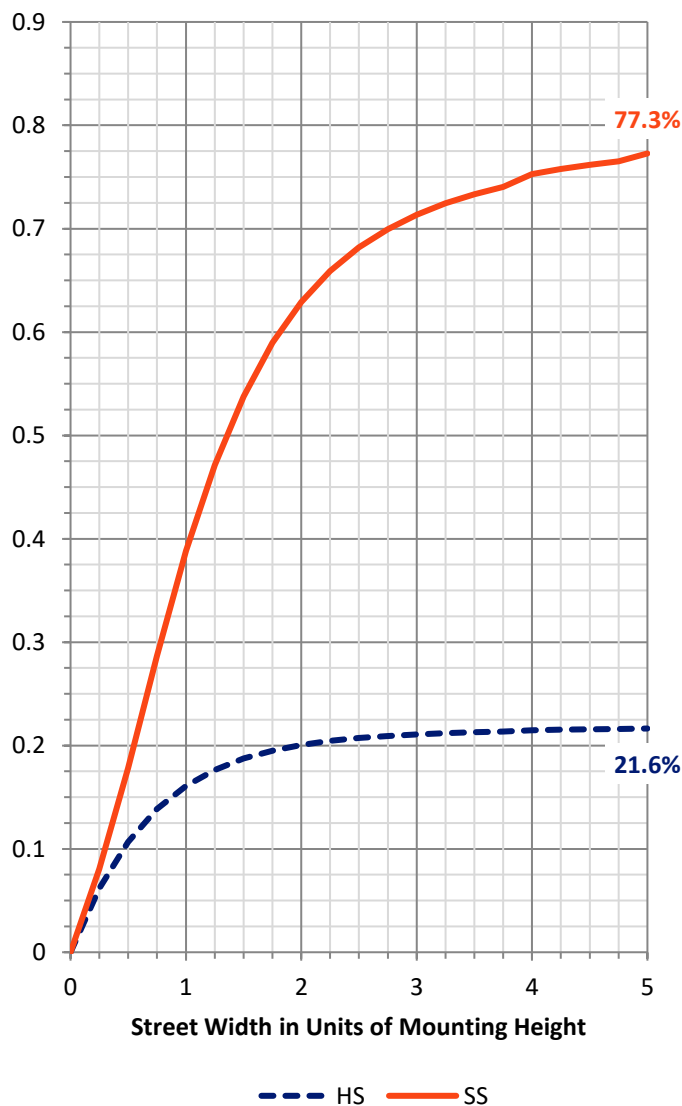
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	470.3	0.0	470.3
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	1695.7	0.0	1695.7
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	2166.0	0.0	2166.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.4	0.5
10°-20°	36.2	1.7
20°-30°	80.2	3.7
30°-40°	177.9	8.2
40°-50°	315.5	14.6
50°-60°	460.9	21.3
60°-70°	557.7	25.8
70°-80°	429.8	19.8
80°-90°	97.3	4.5
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°	2166.0	100.0
0°-180°	2166.0	100.0

**Coefficient of Utilization**



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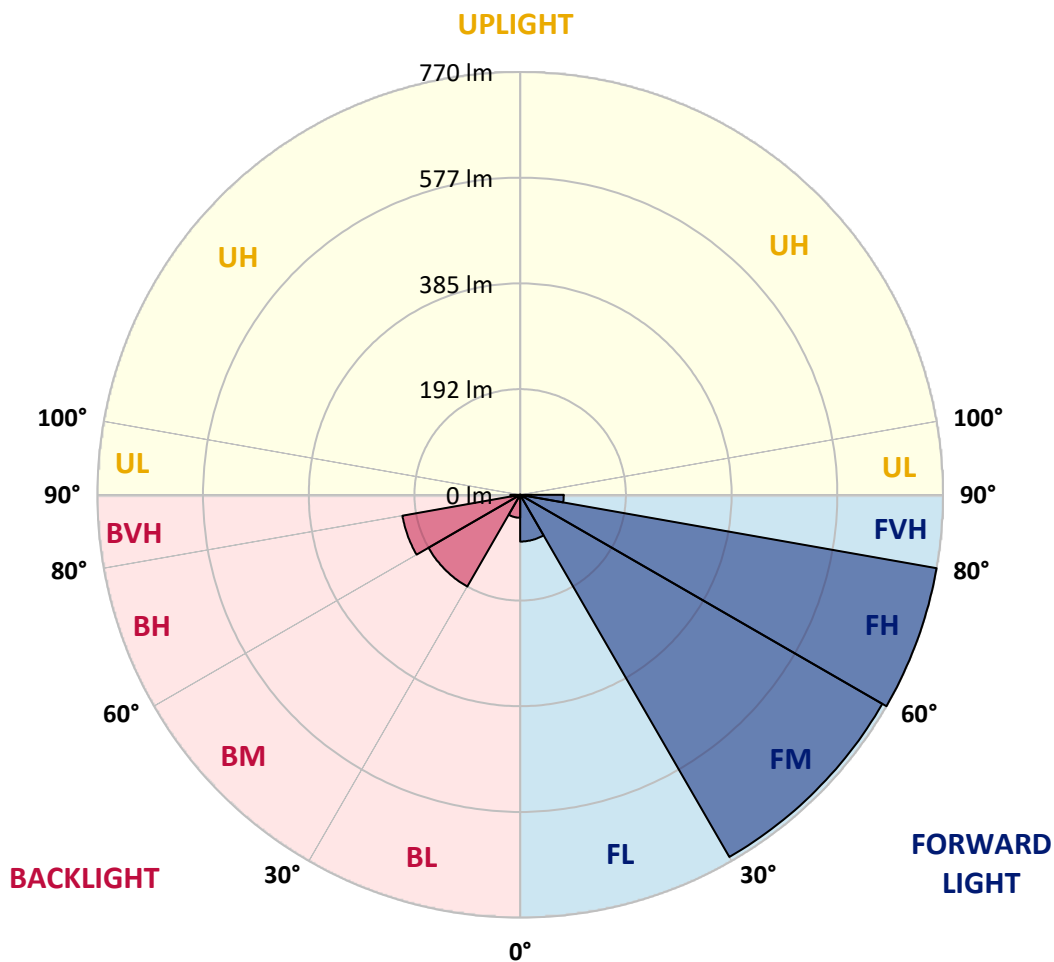
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	85.1	3.9			
FM (30°-60°)	761.4	35.2			
FH (60°-80°)	769.8	35.5			G1/1800
FVH (80°-90°)	79.4	3.7			G1/100
BL (0°-30°)	41.8	1.9	B0/110		
BM (30°-60°)	192.9	8.9	B0/220		
BH (60°-80°)	217.7	10.1	B1/500		G1/500
BVH (80°-90°)	17.9	0.8			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°	65°	66°	75°	85°
0°	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1
2.5°	113.6	113.6	112.8	112.8	111.9	110.3	109.4	106.9	106.9	105.3	103.6
5°	122.8	122.8	122.8	122.0	121.1	119.5	117.8	114.4	114.4	111.1	108.6
7.5°	131.2	131.2	130.3	130.3	128.6	127.8	126.1	122.0	122.0	117.8	112.8
10°	142.9	142.0	141.2	140.3	138.7	136.2	134.5	130.3	129.5	124.5	118.6
12.5°	153.7	153.7	153.7	152.9	151.2	147.9	143.7	138.7	138.7	132.0	124.5
15°	166.2	165.4	165.4	164.6	163.7	161.2	155.4	149.5	148.7	142.0	132.0
17.5°	185.5	184.6	183.0	179.6	177.1	175.4	170.4	160.4	160.4	152.9	142.0
20°	208.8	208.0	205.5	202.2	196.3	191.3	187.1	175.4	173.8	165.4	152.0
22.5°	238.9	237.3	233.9	229.7	224.7	213.9	206.3	194.6	191.3	179.6	164.6
25°	280.7	279.0	272.3	259.8	251.5	244.8	229.7	218.0	214.7	197.2	179.6
27.5°	316.6	315.8	312.4	304.9	287.4	278.2	260.6	246.4	243.1	219.7	197.2
30°	370.9	368.4	360.1	350.9	342.5	322.5	305.8	280.7	277.3	248.9	219.7
32.5°	467.8	462.8	447.8	420.2	406.8	383.4	365.1	327.5	321.6	288.2	248.1
35°	586.4	580.6	553.0	512.9	474.5	457.8	426.0	389.3	379.3	337.5	282.4
37.5°	643.2	639.9	620.7	584.8	548.0	523.0	495.4	461.1	449.4	396.0	322.5
40°	680.0	679.2	663.3	634.9	610.7	582.3	567.2	535.5	523.8	461.1	372.6
42.5°	704.2	703.4	694.2	669.1	659.1	639.9	631.6	603.2	594.0	528.8	426.9
45°	710.9	708.4	704.2	702.6	690.0	693.4	693.4	663.3	657.5	595.6	487.0
47.5°	734.3	731.8	714.3	710.1	717.6	740.2	747.7	726.8	722.6	657.5	542.2
50°	732.6	732.6	733.5	715.9	746.0	770.2	789.4	784.4	781.1	714.3	600.6
52.5°	745.2	742.7	731.0	740.2	754.4	795.3	828.7	830.4	831.2	768.6	654.1
55°	830.4	830.4	804.5	781.9	802.8	854.6	893.9	885.5	883.8	824.5	705.9
57.5°	867.1	863.8	844.6	820.4	852.9	917.3	966.5	955.7	950.7	883.0	755.2
60°	852.9	847.9	837.9	827.0	868.8	945.7	1018.3	1022.5	1018.3	936.5	802.8
62.5°	841.2	837.1	812.8	812.8	854.6	949.8	1040.9	1066.8	1062.6	979.9	842.9
64°	819.5	815.3	796.1	790.3	837.1	940.6	1042.6	1076.8	1075.1	999.1	860.5
65°	791.1	790.3	779.4	771.9	823.7	930.6	1037.6	1076.0	1076.0	1006.6	866.3
67.5°	716.8	712.6	725.1	723.4	783.6	896.4	1007.5	1057.6	1056.8	1003.3	864.6
70°	645.8	642.4	653.3	665.0	729.3	838.7	954.0	1006.6	1005.8	964.9	836.2
72.5°	574.7	578.9	581.4	594.8	653.3	761.0	873.0	927.3	925.6	892.2	779.4
75°	507.1	502.1	504.6	510.4	566.4	665.8	768.6	817.8	817.0	788.6	690.0
77.5°	421.0	418.5	419.4	418.5	472.0	555.5	639.9	682.5	681.7	654.9	568.1
80°	329.1	323.3	324.1	320.0	365.1	429.4	492.0	522.1	517.1	496.2	422.7
82.5°	228.1	221.4	219.7	214.7	250.6	291.6	325.8	337.5	331.6	312.4	258.1
85°	98.6	89.4	101.9	101.9	112.8	122.8	130.3	127.8	124.5	116.1	86.9
87.5°	0.0	0.0	0.0	0.0	0.8	0.0	0.8	0.8	0.8	0.8	0.8
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°	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1
2.5°	103.6	102.8	101.1	100.2	99.4	98.6	97.7	96.9	96.9	96.9	96.1
5°	106.9	105.3	102.8	100.2	98.6	96.1	94.4	92.7	91.9	91.1	91.1
7.5°	110.3	108.6	104.4	101.1	96.9	93.6	90.2	88.6	86.9	86.0	86.0
10°	115.3	112.8	106.9	101.9	96.1	91.9	87.7	85.2	83.5	83.5	82.7
12.5°	120.3	117.0	111.1	103.6	96.1	91.1	86.9	83.5	81.0	80.2	80.2
15°	127.8	123.6	115.3	106.1	97.7	91.1	85.2	80.2	77.7	76.0	76.0
17.5°	135.3	130.3	120.3	109.4	100.2	91.1	83.5	78.5	75.2	73.5	73.5
20°	144.5	138.7	126.1	113.6	102.8	91.1	82.7	76.9	72.7	71.0	71.0
22.5°	155.4	147.9	132.8	117.8	104.4	91.9	82.7	75.2	70.2	67.7	67.7
25°	167.9	158.7	140.3	123.6	106.9	93.6	81.9	72.7	67.7	65.2	65.2
27.5°	183.0	172.9	148.7	129.5	110.3	95.2	81.0	71.8	66.0	62.7	62.7
30°	200.5	188.0	159.6	136.2	114.4	96.1	81.9	71.0	64.3	61.0	60.1
32.5°	223.9	207.2	172.1	143.7	119.5	97.7	81.9	69.3	62.7	59.3	59.3
35°	252.3	230.6	187.1	152.0	123.6	100.2	81.9	69.3	61.0	57.6	56.8
37.5°	287.4	258.1	205.5	162.1	129.5	102.8	81.9	68.5	59.3	56.0	55.1
40°	329.1	291.6	225.6	173.8	135.3	105.3	83.5	67.7	59.3	55.1	55.1
42.5°	375.9	331.6	250.6	188.8	143.7	109.4	84.4	67.7	58.5	53.5	53.5
45°	426.9	375.9	279.9	207.2	153.7	113.6	85.2	68.5	56.8	52.6	51.8
47.5°	482.9	422.7	312.4	225.6	162.9	118.6	86.9	67.7	56.0	51.8	51.0
50°	534.6	472.0	348.4	246.4	173.8	122.8	88.6	66.8	55.1	51.0	50.1
52.5°	584.8	519.6	385.1	269.0	185.5	128.6	90.2	66.8	54.3	49.3	48.5
55°	632.4	563.9	421.0	292.4	198.8	134.5	91.9	66.8	53.5	48.5	47.6
57.5°	675.8	605.7	454.5	316.6	213.0	140.3	92.7	66.0	52.6	46.8	45.9
60°	720.9	646.6	484.5	339.2	226.4	145.4	93.6	65.2	50.1	45.1	44.3
62.5°	759.4	680.8	510.4	357.5	233.9	147.0	92.7	62.7	47.6	41.8	40.9
64°	776.9	694.2	523.0	365.1	237.3	147.0	91.9	61.0	45.1	40.1	39.3
65°	783.6	700.9	528.0	368.4	238.9	147.0	90.2	60.1	43.4	39.3	38.4
67.5°	786.1	703.4	531.3	370.1	237.3	143.7	86.0	56.0	36.8	35.1	34.3
70°	762.7	682.5	515.4	358.4	227.2	135.3	80.2	50.1	30.9	29.2	30.1
72.5°	710.1	635.7	481.2	331.6	208.8	122.8	71.0	43.4	25.9	25.1	25.9
75°	624.9	558.0	421.9	289.0	181.3	106.1	60.1	34.3	20.0	20.9	21.7
77.5°	517.9	460.3	341.7	232.2	143.7	82.7	45.9	23.4	15.0	16.7	16.7
80°	379.3	334.2	244.8	162.1	99.4	55.1	28.4	14.2	10.0	11.7	11.7
82.5°	226.4	194.6	138.7	90.2	53.5	26.7	12.5	5.8	5.0	6.7	6.7
85°	80.2	66.0	42.6	25.1	13.4	5.8	2.5	0.8	0.8	0.0	0.0
87.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)