

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: P673938

Luminaire Tested: **CCP-SA-1A-722-U-SL4-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673938  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1A-722-U-SL4-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ SL4 distribution lens and House Side Shield  
Light Source: (16) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

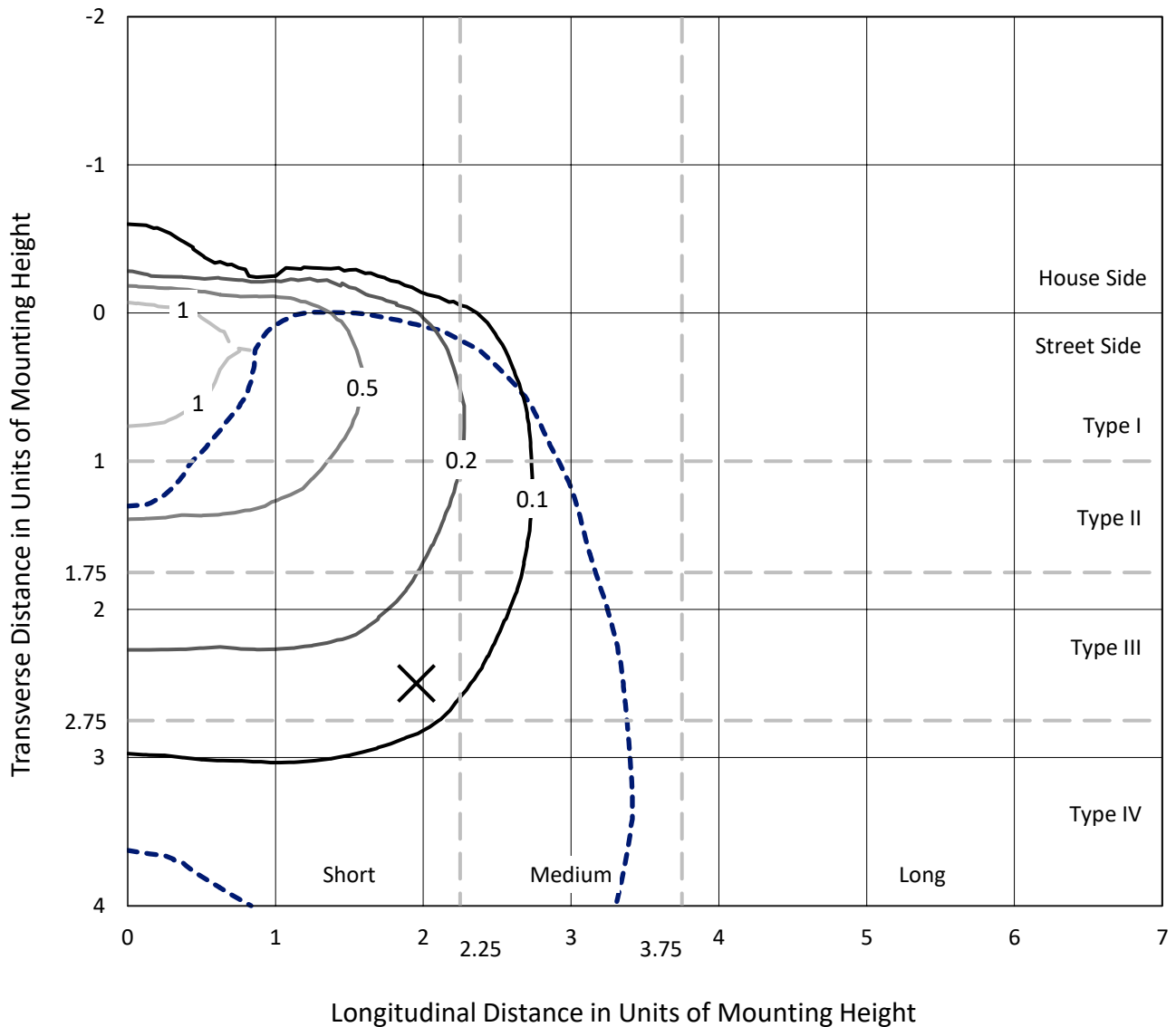
Lumens per Lamp: N/A  
Luminaire Lumens: 1664.6 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

Input Watts (W): 18  
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

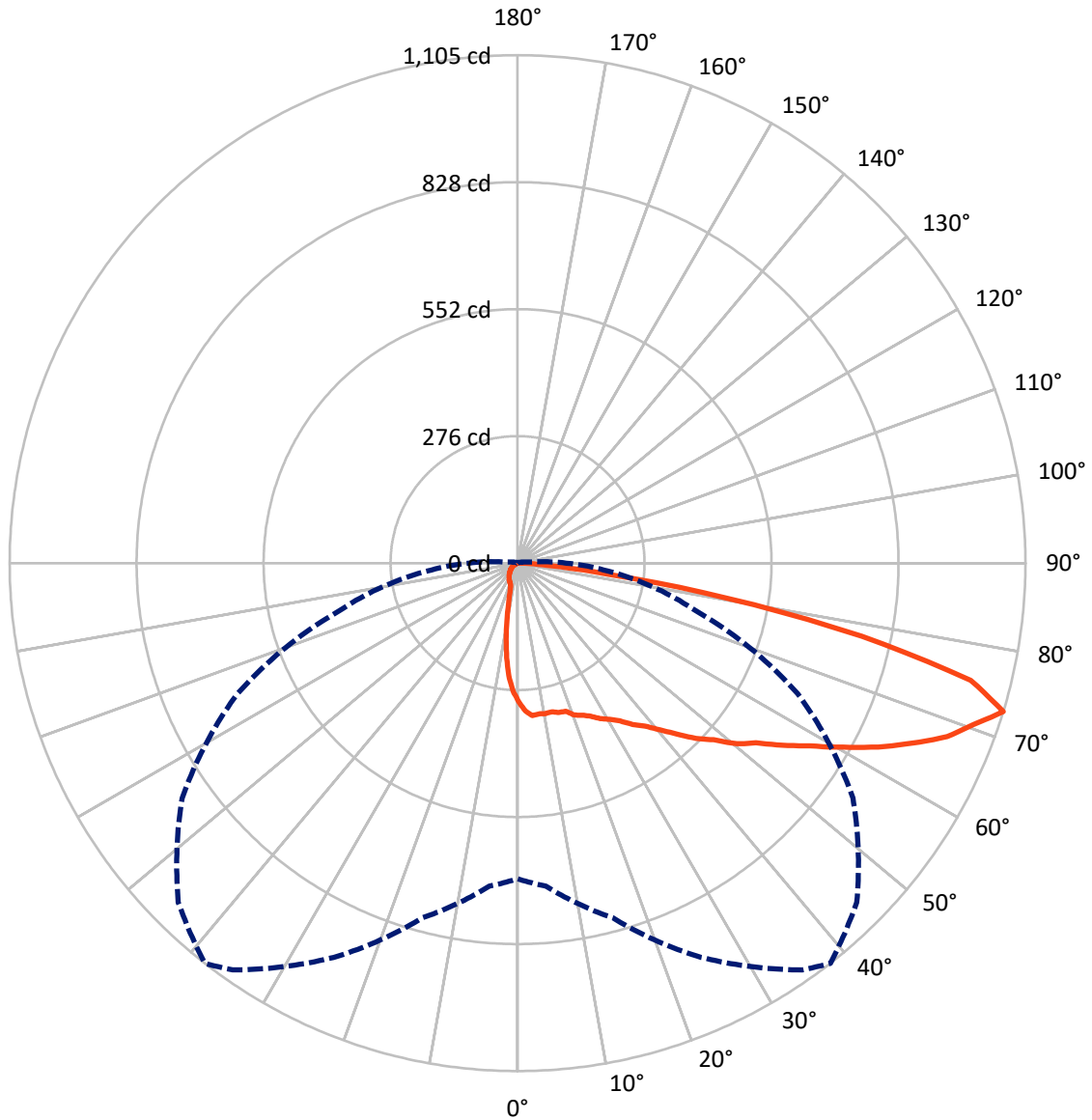
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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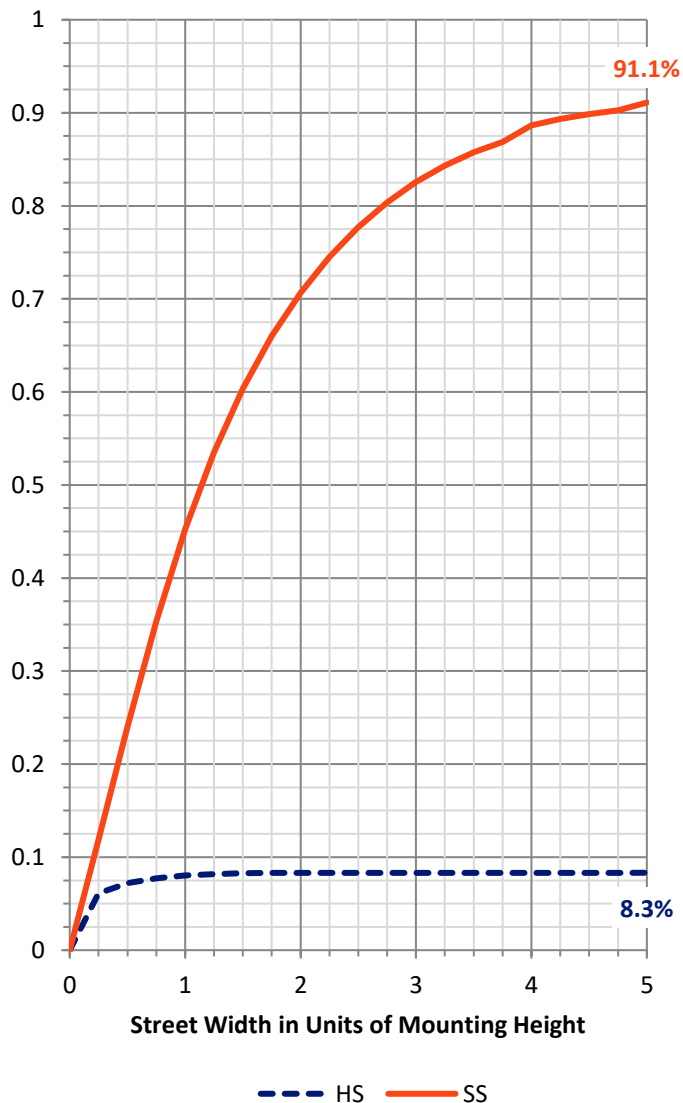
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	139.4	0.0	139.4
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	1525.2	0.0	1525.2
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	1664.6	0.0	1664.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.3	1.6
10°-20°	64.5	3.9
20°-30°	103.4	6.2
30°-40°	156.1	9.4
40°-50°	237.6	14.3
50°-60°	334.6	20.1
60°-70°	408.7	24.6
70°-80°	296.8	17.8
80°-90°	36.6	2.2
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°	1664.6	100.0
0°-180°	1664.6	100.0



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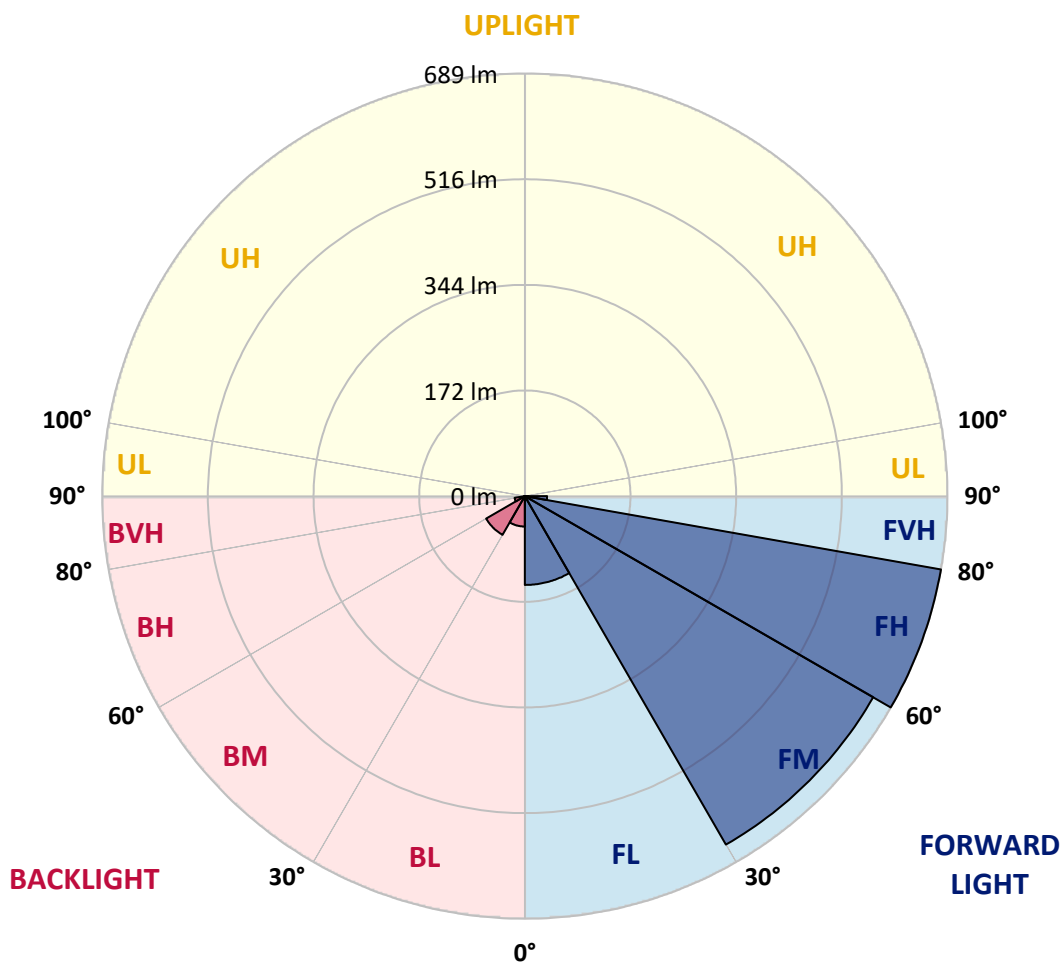
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	144.8	8.7			
FM (30°-60°)	655.5	39.4			
FH (60°-80°)	688.5	41.4			G1/1800
FVH (80°-90°)	36.4	2.2			G1/100
BL (0°-30°)	49.5	3.0	B0/110		
BM (30°-60°)	72.8	4.4	B0/220		
BH (60°-80°)	16.9	1.0	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	301.0	301.0	301.0	301.0	301.0	301.0	301.0	301.0	301.0	301.0	301.0
2.5°	330.7	330.7	333.8	330.7	329.5	322.1	322.5	318.6	314.7	309.2	304.1
5°	334.6	337.3	339.3	336.6	332.3	333.0	335.8	328.4	317.8	311.2	299.9
7.5°	333.0	338.9	337.3	335.8	333.0	331.1	327.2	324.1	319.0	312.7	299.5
10°	331.9	333.8	334.2	333.0	327.2	332.7	328.4	323.3	317.0	309.6	293.2
12.5°	327.6	327.6	331.1	328.4	329.1	331.9	329.9	328.7	322.1	315.9	301.4
15°	322.9	324.5	329.9	334.2	338.1	336.9	335.8	332.3	326.4	319.4	304.1
17.5°	324.1	324.8	333.4	341.2	339.3	338.5	344.8	337.3	331.5	323.7	306.5
20°	328.4	330.7	340.5	350.6	352.6	352.6	350.2	345.9	337.7	327.2	310.8
22.5°	332.7	333.4	349.4	362.3	364.3	359.2	361.2	348.7	340.9	335.0	315.1
25°	349.1	347.5	364.7	374.8	373.6	368.6	366.6	355.7	352.6	342.0	324.5
27.5°	371.3	364.7	381.5	387.7	381.5	383.0	377.6	365.8	359.2	353.0	328.7
30°	385.0	388.9	397.9	404.1	393.6	394.0	391.2	378.3	368.2	369.7	343.2
32.5°	406.1	408.8	415.4	418.2	410.0	409.2	406.4	396.3	388.9	387.3	362.7
35°	428.7	433.8	434.2	434.9	427.5	430.7	426.7	412.3	416.2	418.9	386.1
37.5°	451.0	446.3	454.1	457.6	449.4	449.4	450.6	440.8	447.8	456.0	419.3
40°	459.5	461.5	475.2	472.4	482.2	476.3	480.6	478.3	484.1	502.9	466.2
42.5°	468.5	470.9	489.2	494.3	506.0	508.0	514.2	514.6	531.8	562.6	511.1
45°	485.7	481.8	506.8	519.3	538.4	543.9	551.3	557.5	584.5	620.8	562.2
47.5°	501.3	495.9	524.4	549.3	572.8	573.9	594.2	600.9	632.9	674.3	613.0
50°	523.2	525.1	537.2	580.2	604.0	617.7	631.7	653.6	689.1	733.2	649.7
52.5°	545.8	543.9	564.2	606.3	643.8	648.9	680.5	705.1	743.8	777.0	666.1
55°	573.6	575.9	583.7	639.1	686.8	698.9	734.4	760.2	802.3	795.7	671.6
57.5°	601.3	598.9	616.5	675.8	740.7	749.6	796.9	812.1	840.6	808.2	657.9
60°	628.6	632.9	640.3	717.2	799.6	812.9	850.4	858.2	864.4	814.1	647.3
62.5°	659.8	649.7	672.7	761.0	852.7	880.4	910.1	879.3	873.8	803.5	623.1
65°	675.5	678.6	708.6	810.9	923.4	943.7	947.6	907.8	879.7	780.1	600.5
67.5°	699.7	704.0	742.2	862.1	996.0	1007.3	993.3	933.5	874.6	749.6	518.9
70°	702.8	713.3	787.1	915.6	1041.7	1051.4	1040.5	950.7	833.6	629.8	384.2
72.5°	686.4	705.1	798.1	946.0	1079.9	1104.5	1043.2	890.2	671.9	401.8	196.8
75°	518.5	534.1	730.5	900.7	1012.0	1017.9	916.0	679.4	382.6	137.0	50.4
77.5°	268.6	295.6	487.7	688.3	771.1	764.9	637.6	400.2	131.6	35.9	20.3
80°	154.2	160.9	213.2	386.5	484.9	461.1	352.6	172.6	57.8	18.0	13.3
82.5°	76.1	85.5	114.8	173.0	242.5	199.5	132.4	103.5	32.4	9.8	11.7
85°	16.4	17.2	58.6	82.8	98.4	64.8	45.3	87.1	11.7	5.9	11.3
87.5°	11.7	11.3	16.4	37.1	27.3	16.8	26.9	45.7	2.7	2.7	2.3
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°	301.0	301.0	301.0	301.0	301.0	301.0	301.0	301.0	301.0	301.0	301.0
2.5°	301.0	297.5	293.6	286.2	284.2	283.1	276.4	276.0	274.9	272.1	271.0
5°	292.8	287.0	279.6	271.7	265.5	254.2	240.5	233.5	224.9	225.3	222.5
7.5°	291.7	280.7	270.2	253.8	233.9	212.8	191.7	178.0	168.3	162.4	163.6
10°	286.2	278.0	260.8	230.4	198.3	166.3	139.4	119.1	107.4	98.4	101.1
12.5°	288.5	272.5	248.3	207.7	162.0	122.6	89.0	69.5	60.9	57.8	58.6
15°	287.0	272.5	240.9	183.1	127.3	83.2	57.8	51.5	50.0	50.0	49.2
17.5°	291.7	275.6	228.4	158.9	91.4	55.4	49.6	48.4	47.2	47.2	47.2
20°	298.3	277.2	219.8	132.0	64.4	48.8	46.5	45.7	45.3	45.3	44.9
22.5°	298.7	275.6	203.8	102.3	49.6	46.1	44.1	43.7	43.7	42.9	42.9
25°	301.0	277.2	186.6	76.9	46.1	43.3	41.8	41.4	41.8	41.4	41.0
27.5°	306.9	279.9	169.4	56.2	43.3	41.0	39.8	39.4	39.4	39.4	38.7
30°	314.3	279.9	150.3	46.5	41.0	38.7	37.5	37.1	36.7	36.7	36.7
32.5°	329.9	288.9	126.9	41.4	37.9	35.9	34.7	34.7	34.4	34.4	34.0
35°	349.4	295.2	103.1	38.3	35.1	33.2	32.0	32.0	31.6	31.6	31.2
37.5°	373.6	310.8	78.9	35.9	32.4	30.5	29.3	29.3	29.3	28.9	28.9
40°	408.0	326.8	58.6	32.8	29.7	27.7	26.9	26.5	26.2	26.2	25.4
42.5°	444.7	351.4	43.7	30.5	27.3	25.8	24.6	23.4	23.4	22.3	22.3
45°	484.5	372.9	35.5	27.7	25.0	23.0	21.9	21.1	19.9	19.1	19.1
47.5°	523.6	386.1	31.2	24.6	22.6	21.1	19.9	18.4	16.8	16.4	16.0
50°	555.2	390.0	27.7	22.3	20.7	19.1	17.6	15.6	14.1	13.3	12.9
52.5°	555.2	368.6	25.0	19.9	18.7	17.2	15.2	12.9	10.9	10.2	9.8
55°	555.2	334.6	22.3	18.4	16.8	15.6	12.9	10.5	8.6	7.4	7.0
57.5°	547.0	293.6	19.9	16.4	14.8	13.3	10.9	8.2	6.2	5.1	5.1
60°	524.4	250.7	17.2	14.4	12.9	10.9	8.6	5.9	3.9	2.7	2.7
62.5°	495.5	199.5	14.8	12.1	10.5	9.0	6.6	3.9	1.6	0.8	0.8
65°	445.1	147.2	12.9	10.2	8.2	6.6	4.3	1.6	0.0	0.0	0.0
67.5°	367.4	98.4	10.2	8.2	7.0	4.7	2.7	0.4	0.0	0.0	0.0
70°	258.5	55.8	7.8	5.9	5.1	3.1	0.8	0.0	0.0	0.0	0.0
72.5°	106.2	24.6	5.5	4.3	3.5	1.6	0.0	0.0	0.0	0.0	0.0
75°	28.9	10.9	3.5	2.3	2.0	0.4	0.0	0.0	0.0	0.0	0.0
77.5°	16.8	7.4	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.3	3.5	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.3	2.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	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)