

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: P677127

Luminaire Tested: **CCW-SA-1A-735-U-SL4-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677127  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-735-U-SL4-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
SL4 distribution lens and House Side Shield  
Light Source: (16) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

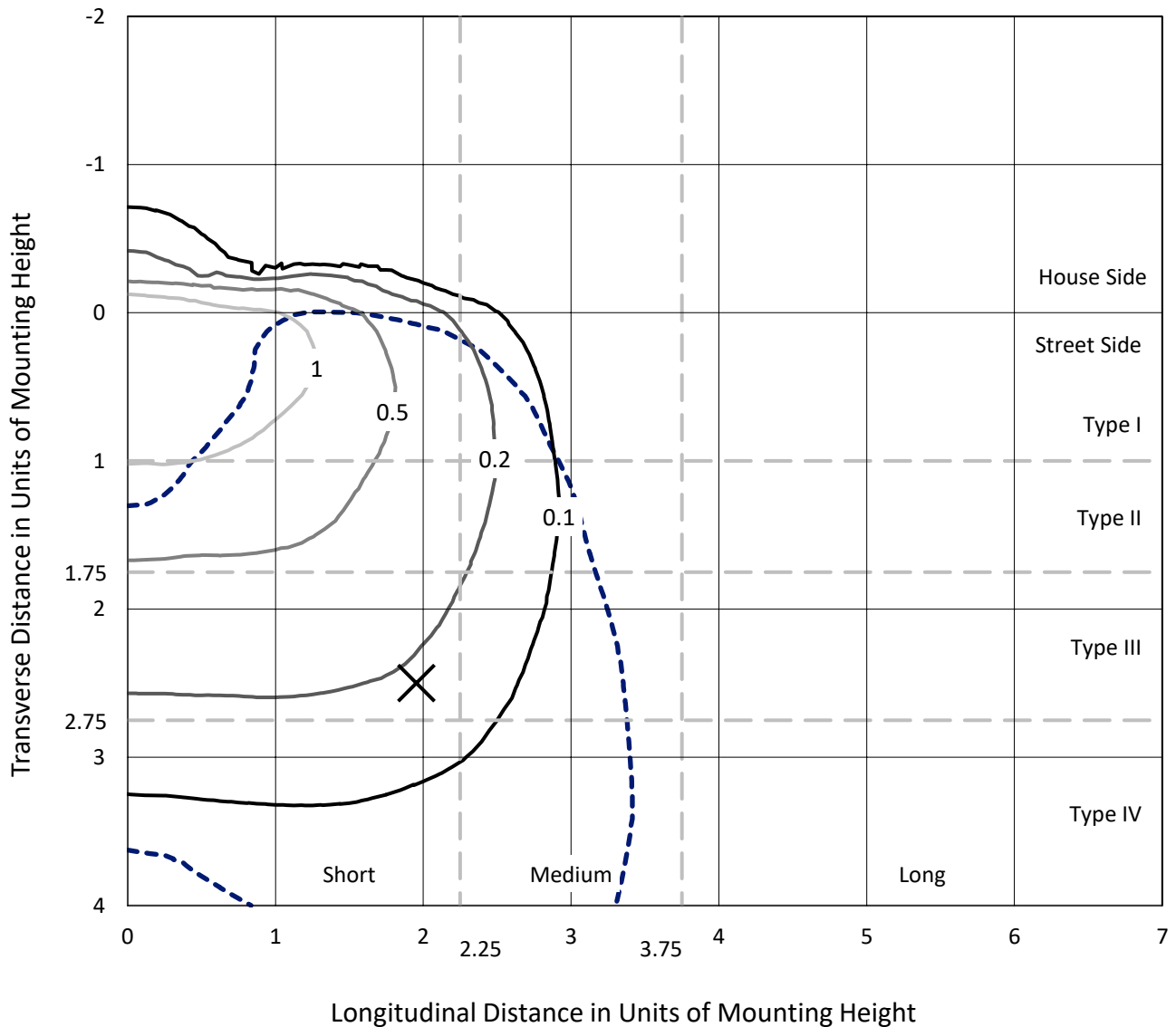
Lumens per Lamp: N/A  
Luminaire Lumens: 2228.9 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

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

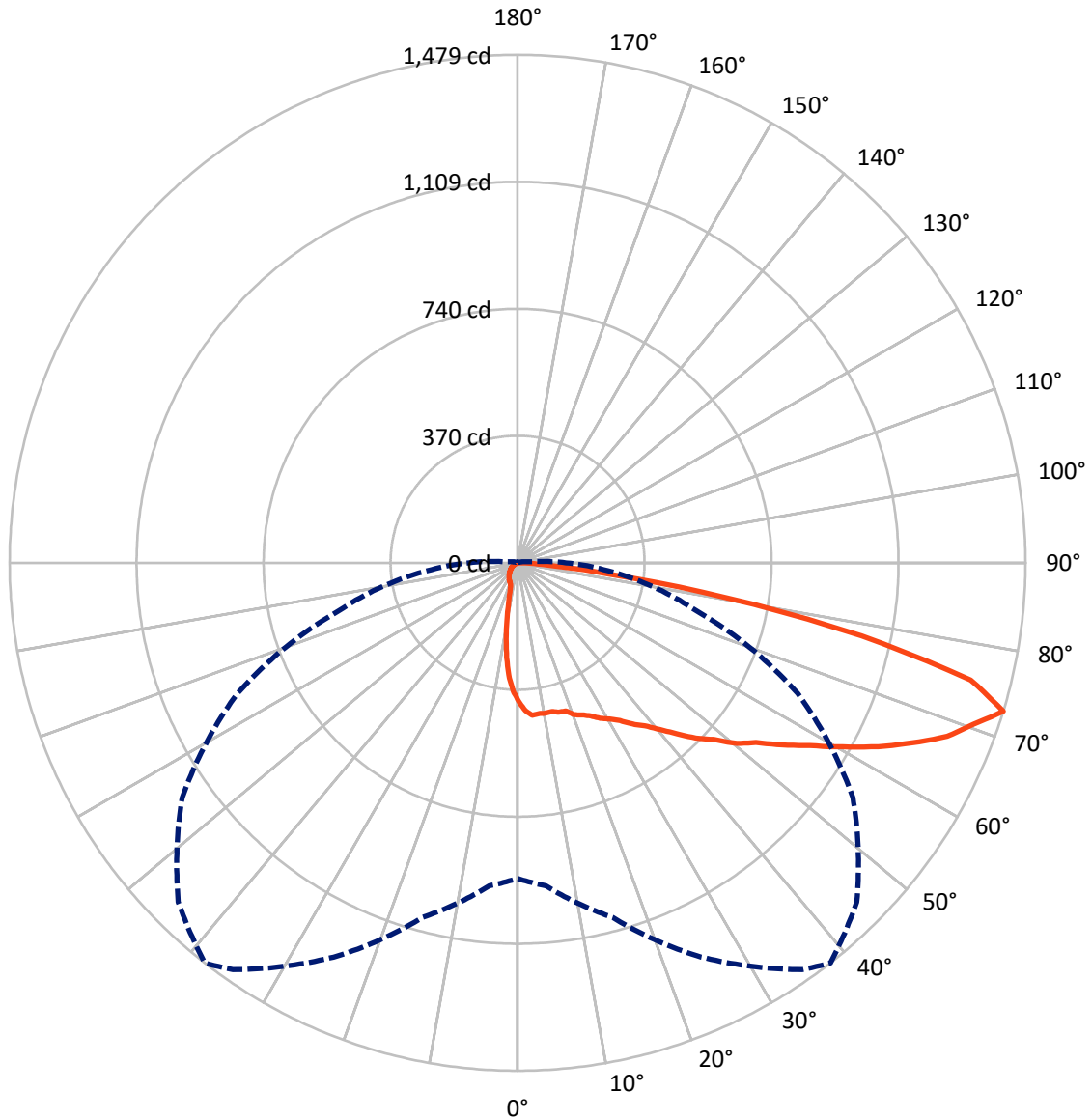
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.9 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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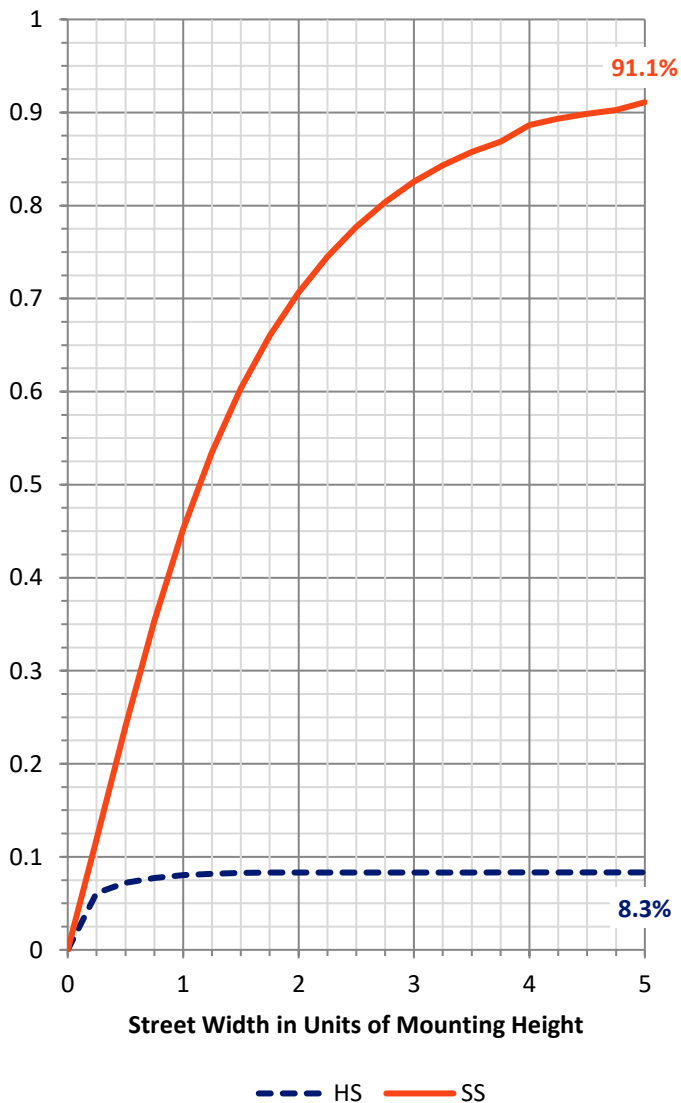
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	186.7	0.0	186.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	2042.2	0.0	2042.2
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	2228.9	0.0	2228.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.3	1.6
10°-20°	86.4	3.9
20°-30°	138.5	6.2
30°-40°	209.1	9.4
40°-50°	318.2	14.3
50°-60°	448.0	20.1
60°-70°	547.2	24.6
70°-80°	397.4	17.8
80°-90°	48.9	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°	2228.9	100.0
0°-180°	2228.9	100.0

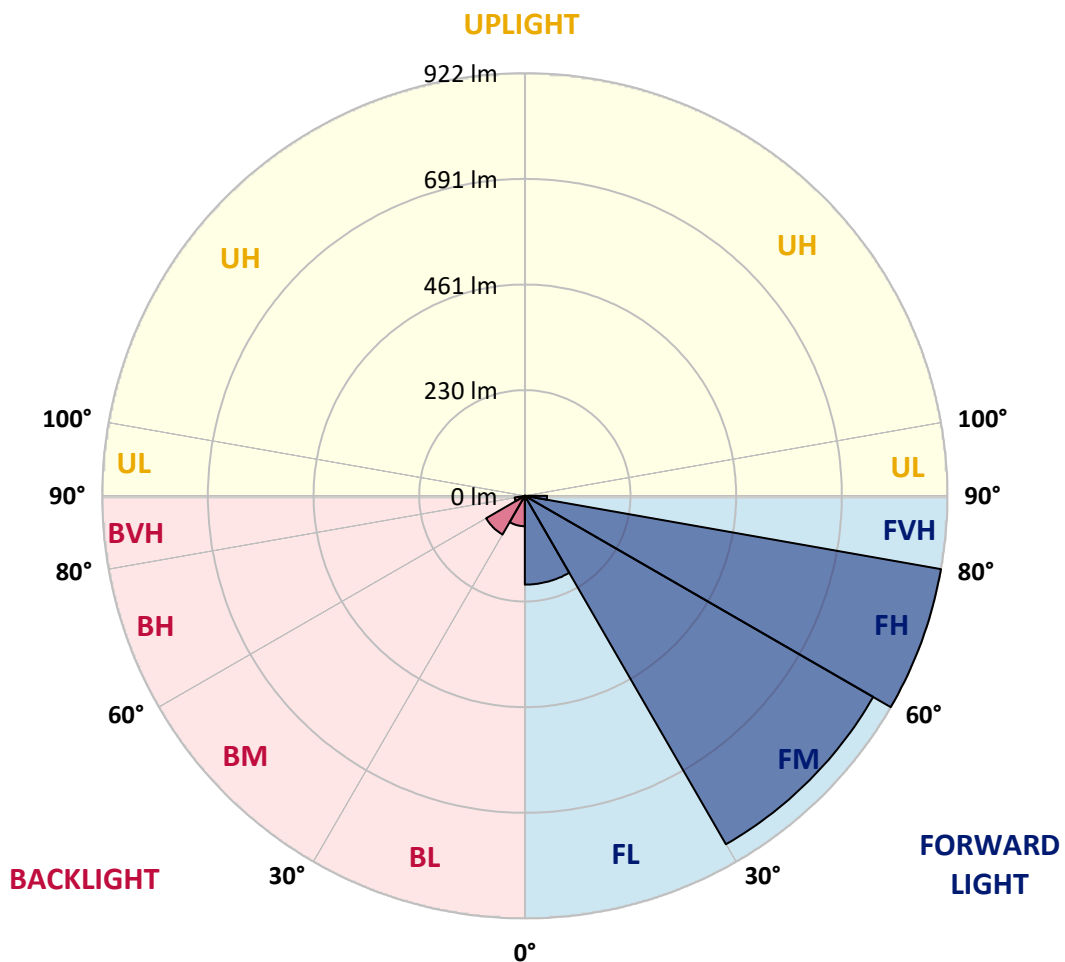


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.9	8.7			
FM (30°-60°)	877.7	39.4			
FH (60°-80°)	921.9	41.4			G1/1800
FVH (80°-90°)	48.7	2.2			G1/100
BL (0°-30°)	66.3	3.0	B0/110		
BM (30°-60°)	97.5	4.4	B0/220		
BH (60°-80°)	22.6	1.0	B0/110		G0/110
BVH (80°-90°)	0.3	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°	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1
2.5°	442.8	442.8	447.0	442.8	441.2	431.3	431.8	426.6	421.4	414.0	407.3
5°	448.0	451.7	454.3	450.6	444.9	445.9	449.6	439.7	425.6	416.7	401.5
7.5°	445.9	453.8	451.7	449.6	445.9	443.3	438.1	433.9	427.1	418.8	401.0
10°	444.4	447.0	447.5	445.9	438.1	445.4	439.7	432.9	424.5	414.6	392.6
12.5°	438.6	438.6	443.3	439.7	440.7	444.4	441.8	440.2	431.3	422.9	403.6
15°	432.3	434.4	441.8	447.5	452.7	451.2	449.6	444.9	437.1	427.6	407.3
17.5°	433.9	435.0	446.5	456.9	454.3	453.3	461.6	451.7	443.8	433.4	410.4
20°	439.7	442.8	455.9	469.5	472.1	472.1	468.9	463.2	452.2	438.1	416.1
22.5°	445.4	446.5	467.9	485.1	487.8	481.0	483.6	466.9	456.4	448.6	421.9
25°	467.4	465.3	488.3	501.9	500.3	493.5	490.9	476.3	472.1	458.0	434.4
27.5°	497.2	488.3	510.8	519.1	510.8	512.9	505.5	489.9	481.0	472.6	440.2
30°	515.5	520.7	532.7	541.1	527.0	527.5	523.8	506.6	493.0	495.1	459.5
32.5°	543.7	547.4	556.2	559.9	548.9	547.9	544.2	530.6	520.7	518.6	485.7
35°	574.0	580.8	581.3	582.4	572.5	576.6	571.4	552.1	557.3	561.0	517.0
37.5°	603.8	597.5	608.0	612.7	601.7	601.7	603.3	590.2	599.6	610.6	561.5
40°	615.3	617.9	636.2	632.6	645.6	637.8	643.6	640.4	648.3	673.4	624.2
42.5°	627.3	630.5	655.1	661.9	677.5	680.2	688.5	689.0	712.0	753.3	684.3
45°	650.4	645.1	678.6	695.3	720.9	728.2	738.2	746.5	782.6	831.2	752.8
47.5°	671.3	663.9	702.1	735.6	766.9	768.5	795.7	804.6	847.4	902.9	820.8
50°	700.5	703.2	719.4	776.9	808.8	827.1	845.9	875.2	922.7	981.8	869.9
52.5°	730.9	728.2	755.4	811.9	862.1	868.9	911.2	944.2	995.9	1040.4	891.9
55°	768.0	771.1	781.6	855.8	919.6	935.8	983.4	1017.9	1074.3	1065.4	899.2
57.5°	805.1	802.0	825.5	905.0	991.7	1003.8	1067.0	1087.4	1125.6	1082.2	880.9
60°	841.7	847.4	857.4	960.4	1070.7	1088.4	1138.6	1149.1	1157.5	1090.0	866.8
62.5°	883.5	869.9	900.8	1018.9	1141.8	1178.9	1218.6	1177.3	1170.0	1075.9	834.4
65°	904.4	908.6	948.9	1085.8	1236.4	1263.6	1268.8	1215.5	1177.8	1044.5	804.1
67.5°	936.8	942.6	993.8	1154.3	1333.6	1348.8	1330.0	1250.0	1171.1	1003.8	694.8
70°	941.0	955.1	1053.9	1225.9	1394.8	1407.9	1393.2	1273.0	1116.2	843.3	514.4
72.5°	919.1	944.2	1068.6	1266.7	1446.0	1479.0	1396.9	1192.0	899.7	538.0	263.5
75°	694.3	715.2	978.1	1206.1	1355.1	1362.9	1226.5	909.7	512.3	183.5	67.4
77.5°	359.7	395.8	653.0	921.7	1032.5	1024.1	853.7	535.9	176.2	48.1	27.2
80°	206.5	215.4	285.4	517.6	649.3	617.4	472.1	231.1	77.4	24.0	17.8
82.5°	101.9	114.5	153.7	231.6	324.7	267.1	177.2	138.5	43.4	13.1	15.7
85°	22.0	23.0	78.4	110.8	131.7	86.8	60.6	116.6	15.7	7.8	15.2
87.5°	15.7	15.2	22.0	49.7	36.6	22.5	36.1	61.2	3.7	3.7	3.1
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°	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1
2.5°	403.1	398.4	393.1	383.2	380.6	379.0	370.1	369.6	368.0	364.4	362.8
5°	392.1	384.3	374.3	363.9	355.5	340.3	322.0	312.6	301.1	301.7	298.0
7.5°	390.5	375.9	361.8	339.8	313.2	284.9	256.7	238.4	225.3	217.5	219.0
10°	383.2	372.2	349.2	308.4	265.6	222.7	186.6	159.5	143.8	131.7	135.4
12.5°	386.3	364.9	332.5	278.1	217.0	164.2	119.2	93.1	81.6	77.4	78.4
15°	384.3	364.9	322.6	245.2	170.4	111.4	77.4	69.0	66.9	66.9	65.9
17.5°	390.5	369.1	305.8	212.8	122.3	74.2	66.4	64.8	63.3	63.3	63.3
20°	399.4	371.2	294.3	176.7	86.3	65.3	62.2	61.2	60.6	60.6	60.1
22.5°	399.9	369.1	272.9	137.0	66.4	61.7	59.1	58.6	58.6	57.5	57.5
25°	403.1	371.2	249.9	103.0	61.7	58.0	55.9	55.4	55.9	55.4	54.9
27.5°	410.9	374.8	226.9	75.3	58.0	54.9	53.3	52.8	52.8	52.8	51.8
30°	420.8	374.8	201.3	62.2	54.9	51.8	50.2	49.7	49.1	49.1	49.1
32.5°	441.8	386.9	169.9	55.4	50.7	48.1	46.5	46.5	46.0	46.0	45.5
35°	467.9	395.2	138.0	51.2	47.1	44.4	42.9	42.9	42.3	42.3	41.8
37.5°	500.3	416.1	105.6	48.1	43.4	40.8	39.2	39.2	39.2	38.7	38.7
40°	546.3	437.6	78.4	43.9	39.7	37.1	36.1	35.5	35.0	35.0	34.0
42.5°	595.5	470.5	58.6	40.8	36.6	34.5	32.9	31.4	31.4	29.8	29.8
45°	648.8	499.3	47.6	37.1	33.5	30.8	29.3	28.2	26.7	25.6	25.6
47.5°	701.1	517.0	41.8	32.9	30.3	28.2	26.7	24.6	22.5	22.0	21.4
50°	743.4	522.3	37.1	29.8	27.7	25.6	23.5	20.9	18.8	17.8	17.3
52.5°	743.4	493.5	33.5	26.7	25.1	23.0	20.4	17.3	14.6	13.6	13.1
55°	743.4	448.0	29.8	24.6	22.5	20.9	17.3	14.1	11.5	9.9	9.4
57.5°	732.4	393.1	26.7	22.0	19.9	17.8	14.6	11.0	8.4	6.8	6.8
60°	702.1	335.6	23.0	19.3	17.3	14.6	11.5	7.8	5.2	3.7	3.7
62.5°	663.4	267.1	19.9	16.2	14.1	12.0	8.9	5.2	2.1	1.0	1.0
65°	596.0	197.1	17.3	13.6	11.0	8.9	5.8	2.1	0.0	0.0	0.0
67.5°	491.9	131.7	13.6	11.0	9.4	6.3	3.7	0.5	0.0	0.0	0.0
70°	346.1	74.8	10.5	7.8	6.8	4.2	1.0	0.0	0.0	0.0	0.0
72.5°	142.2	32.9	7.3	5.8	4.7	2.1	0.0	0.0	0.0	0.0	0.0
75°	38.7	14.6	4.7	3.1	2.6	0.5	0.0	0.0	0.0	0.0	0.0
77.5°	22.5	9.9	2.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	17.8	4.7	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.8	2.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	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)