

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: P676595

Luminaire Tested: **CCW-SA-1A-827-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676595  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-827-U-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

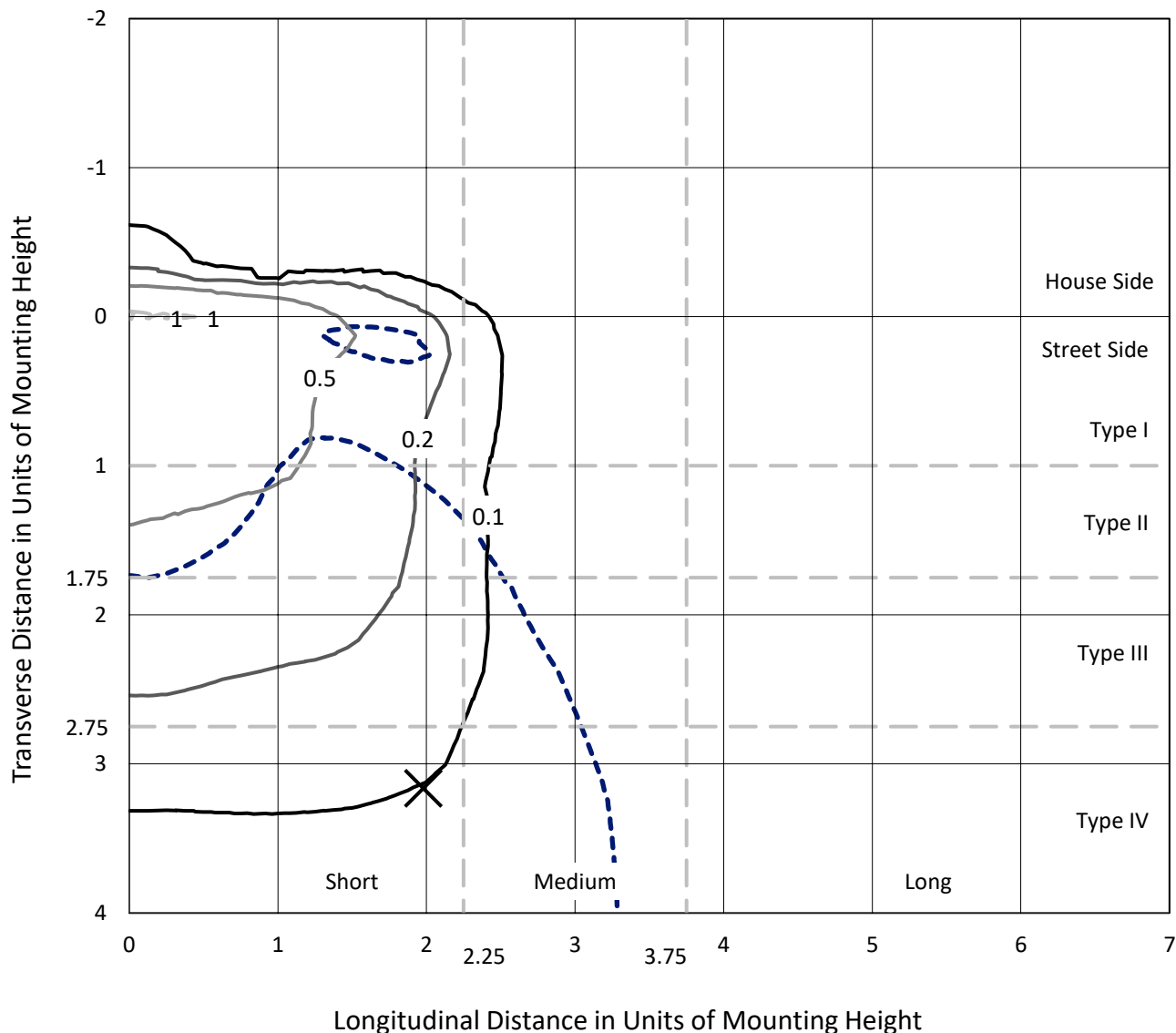
Lumens per Lamp: N/A  
Luminaire Lumens: 1444.1 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

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

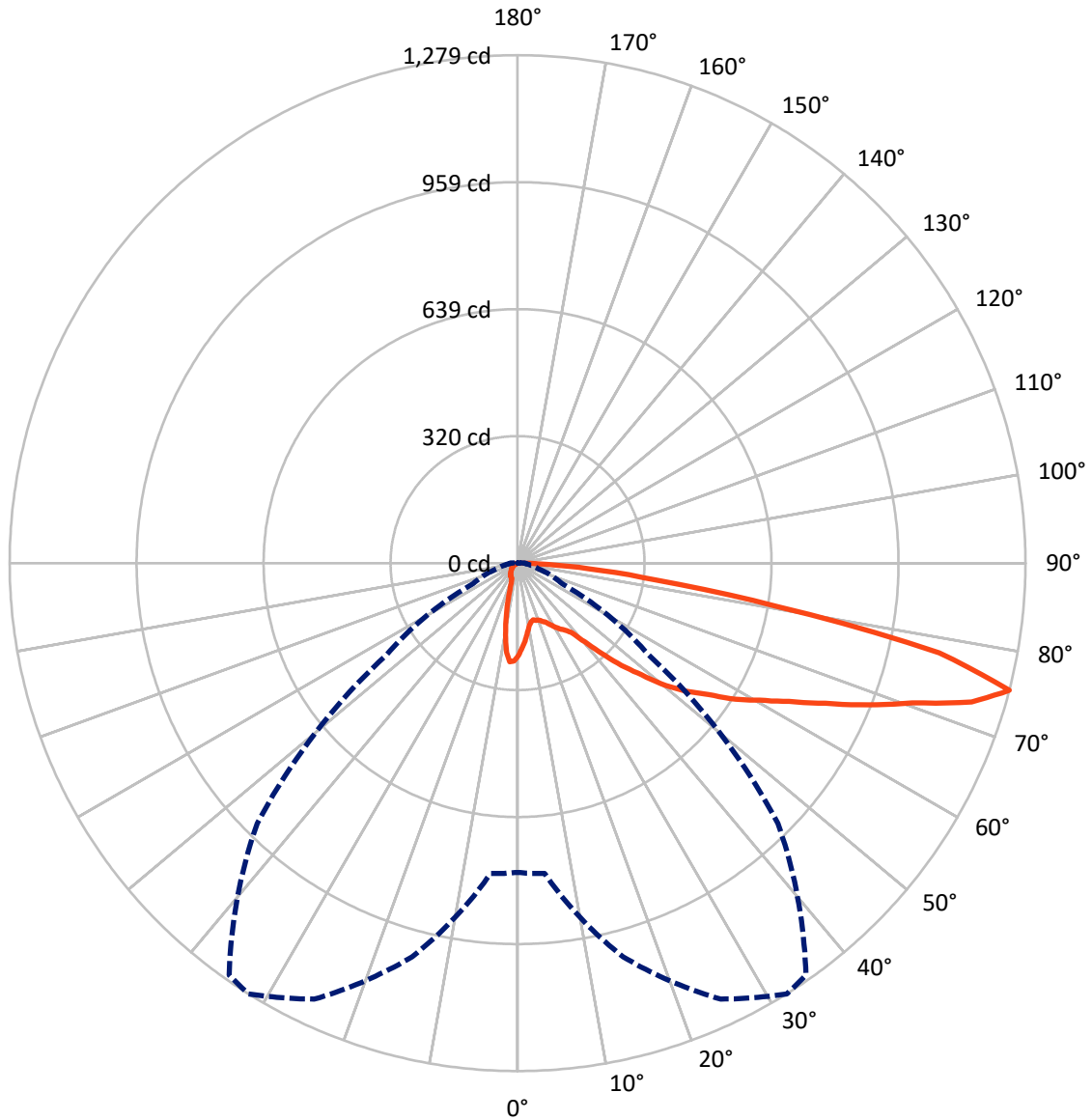
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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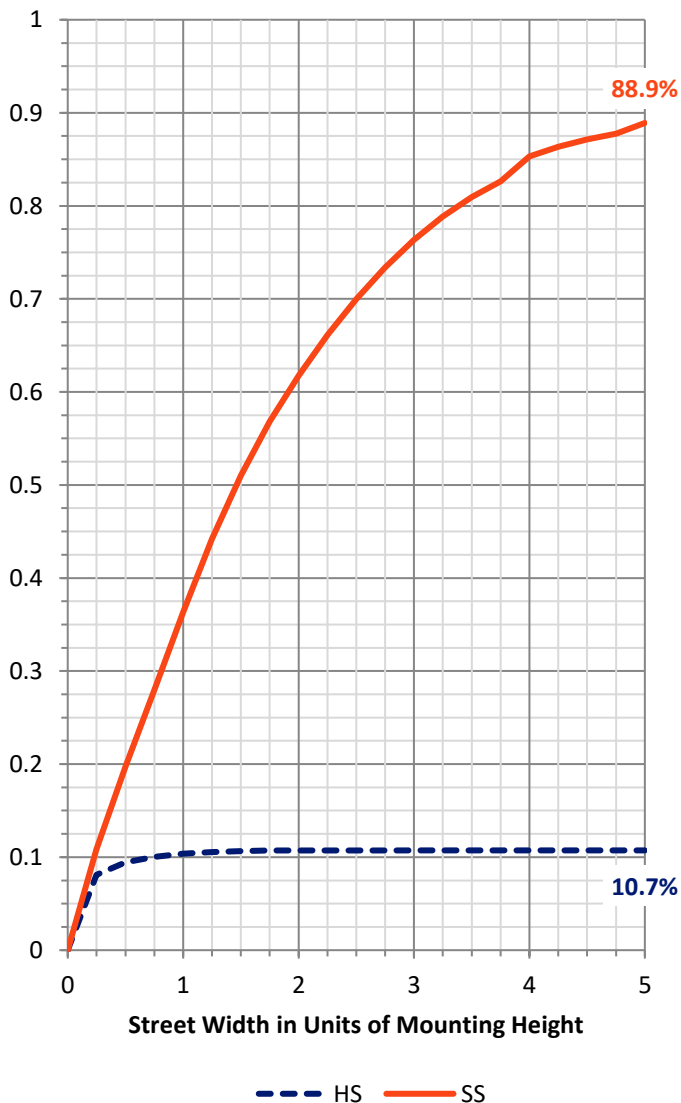
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	156.0	0.0	156.0
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	1288.1	0.0	1288.1
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	1444.1	0.0	1444.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.5	1.4
10°-20°	46.5	3.2
20°-30°	69.6	4.8
30°-40°	106.9	7.4
40°-50°	187.0	12.9
50°-60°	292.3	20.2
60°-70°	377.9	26.2
70°-80°	307.8	21.3
80°-90°	35.6	2.5
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°	1444.1	100.0
0°-180°	1444.1	100.0



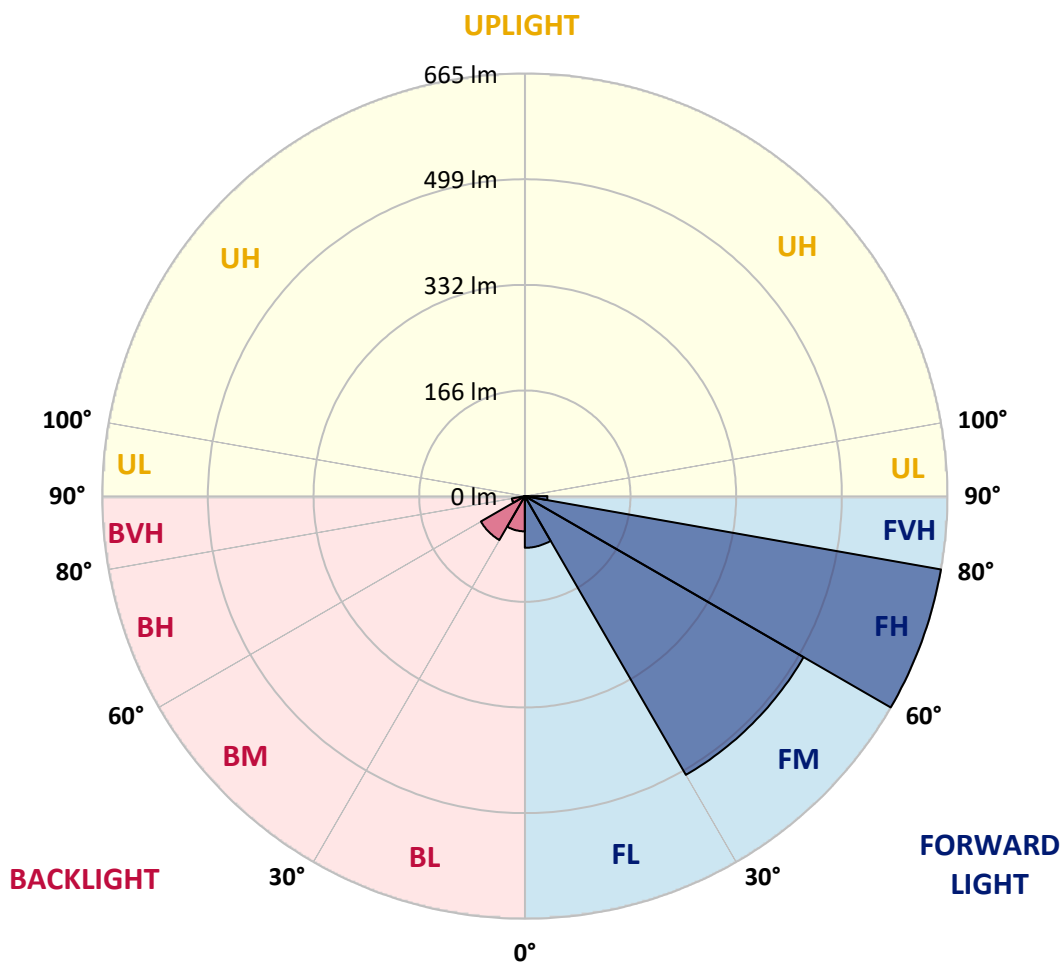
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	81.2	5.6			
FM (30°-60°)	506.3	35.1			
FH (60°-80°)	664.9	46.0			G1/1800
FVH (80°-90°)	35.6	2.5			G1/100
BL (0°-30°)	55.4	3.8	B0/110		
BM (30°-60°)	79.8	5.5	B0/220		
BH (60°-80°)	20.8	1.4	B0/110		G0/110
BVH (80°-90°)	0.0	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°	32°	35°	45°	55°	65°	75°	85°
0°	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2
2.5°	209.1	212.1	211.7	213.6	213.9	215.0	217.6	217.6	225.0	230.2	233.5
5°	190.2	188.4	189.1	191.3	196.9	196.5	202.8	206.2	215.0	222.4	230.2
7.5°	166.9	166.6	168.0	173.2	177.3	180.6	187.3	195.8	207.6	218.7	232.4
10°	152.1	151.4	154.3	155.8	160.6	162.8	173.2	186.5	200.6	216.5	232.4
12.5°	148.8	146.2	147.7	147.3	151.7	152.9	162.8	179.1	196.2	215.8	235.4
15°	150.6	148.8	147.3	147.3	148.4	149.2	159.9	174.3	193.6	216.9	242.1
17.5°	156.6	155.4	151.0	146.6	151.4	151.4	158.0	173.2	193.9	220.2	250.2
20°	163.6	162.5	154.7	149.5	152.9	156.6	163.6	175.8	195.0	222.8	262.8
22.5°	171.4	171.4	160.6	154.7	159.1	159.5	172.1	183.9	199.5	229.5	270.9
25°	181.0	180.2	169.9	163.2	164.7	168.8	180.2	192.8	207.6	238.7	286.1
27.5°	193.6	192.5	180.2	173.6	175.4	179.9	192.8	205.4	215.0	242.4	299.1
30°	203.9	202.8	192.8	182.8	186.9	191.0	206.2	217.3	224.3	249.5	313.9
32.5°	206.2	204.3	197.6	193.2	197.6	205.4	217.3	228.7	239.5	267.2	342.0
35°	231.7	225.0	207.6	200.6	207.3	209.9	229.5	249.8	260.2	281.3	373.4
37.5°	280.5	274.3	251.3	231.7	222.4	225.4	250.9	276.1	286.1	307.6	407.9
40°	340.5	330.1	305.7	279.4	260.6	256.9	273.5	310.5	320.1	340.5	453.0
42.5°	409.0	399.0	361.2	330.1	310.9	306.1	308.7	350.5	358.6	370.9	482.6
45°	458.2	453.0	410.5	382.7	367.5	362.3	356.0	394.2	404.5	408.6	525.6
47.5°	486.7	483.0	459.3	440.4	420.1	414.5	418.6	454.9	447.8	451.2	566.6
50°	524.8	515.2	483.0	488.9	484.8	483.4	490.4	506.3	496.0	486.3	611.4
52.5°	555.5	538.5	515.9	530.4	536.7	542.2	567.0	578.9	532.6	517.8	640.3
55°	574.4	558.1	564.1	577.4	584.0	609.6	638.8	629.9	556.7	543.0	678.8
57.5°	591.4	592.6	608.5	612.5	646.6	651.0	707.3	678.4	573.7	565.9	694.0
60°	632.5	628.5	641.4	667.7	700.3	725.1	778.7	711.0	582.2	577.7	689.9
62.5°	706.5	681.4	685.8	719.1	766.9	793.9	819.8	725.8	580.0	579.6	677.7
65°	800.6	771.7	758.4	789.5	851.3	889.4	866.1	742.4	565.2	575.5	632.2
67.5°	878.6	879.0	854.2	871.6	952.3	960.4	909.7	739.1	540.4	543.3	521.1
70°	968.6	980.8	959.0	1013.4	1053.7	1058.9	959.7	711.7	487.1	409.7	299.4
72.5°	991.5	997.8	1065.9	1149.6	1195.1	1196.6	1008.9	620.3	320.5	181.0	92.9
75°	778.7	784.6	1026.0	1211.0	1278.7	1265.8	926.8	402.7	124.7	52.9	22.2
77.5°	434.5	436.4	637.0	979.0	1084.8	1032.6	649.2	156.9	50.3	30.3	10.4
80°	118.8	139.5	236.1	482.6	662.5	650.3	309.0	51.1	32.6	23.7	4.8
82.5°	28.5	30.7	75.9	213.6	350.1	365.3	92.2	25.9	22.6	19.6	2.6
85°	10.4	11.5	23.3	104.0	179.9	165.1	27.8	13.0	16.7	15.2	1.1
87.5°	3.7	3.7	7.4	34.1	52.6	39.6	9.3	4.4	8.5	9.3	0.4
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°	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2
2.5°	233.9	233.9	239.1	243.5	245.0	246.9	245.0	249.1	248.7	246.9	247.6
5°	234.3	240.9	245.4	248.3	249.8	249.5	250.2	245.8	243.2	241.3	239.5
7.5°	236.1	242.4	250.6	249.8	245.8	237.2	230.6	218.7	207.3	206.9	205.0
10°	242.4	248.0	252.8	249.8	235.0	209.1	188.0	172.1	157.7	151.0	151.7
12.5°	246.9	257.2	255.0	239.8	209.1	175.1	144.0	120.7	107.7	95.5	95.5
15°	256.1	259.8	259.1	225.4	177.3	136.6	98.8	75.1	61.4	55.9	55.1
17.5°	265.0	269.1	256.5	203.6	145.8	91.8	60.0	46.6	44.8	44.0	44.4
20°	276.1	276.5	254.3	181.7	109.6	58.1	42.9	41.8	42.2	41.8	41.8
22.5°	287.9	290.5	246.5	151.0	72.9	42.2	40.0	40.3	40.3	40.3	41.5
25°	303.5	299.4	234.3	121.8	47.7	38.9	38.9	39.2	39.2	39.2	39.6
27.5°	313.9	308.3	218.7	87.7	37.4	36.6	37.4	37.4	38.1	38.1	38.1
30°	335.3	320.9	199.1	56.6	33.7	34.8	35.5	36.3	36.6	37.4	37.8
32.5°	352.0	332.0	174.7	37.8	30.7	31.5	33.3	34.8	36.3	35.9	35.9
35°	382.3	350.1	152.1	30.0	28.1	28.1	30.0	32.6	34.8	35.5	35.5
37.5°	417.1	364.9	120.7	27.4	25.9	25.9	27.0	30.0	32.9	34.4	33.7
40°	446.0	382.0	89.2	25.5	24.1	24.1	24.8	27.0	30.3	32.9	33.3
42.5°	466.3	394.5	60.3	23.7	22.6	22.2	23.3	24.4	27.0	30.7	31.5
45°	484.8	401.2	37.4	21.8	21.1	21.1	21.1	22.2	24.1	27.4	28.1
47.5°	517.8	408.6	27.0	20.4	19.2	19.6	20.0	20.4	21.8	22.6	22.9
50°	545.5	414.2	22.2	18.9	18.1	18.5	18.5	18.5	19.2	18.1	18.1
52.5°	566.6	408.6	18.9	17.4	16.7	17.0	16.7	16.7	15.9	14.4	14.4
55°	582.2	398.6	15.2	15.9	15.9	15.9	15.2	14.1	12.6	11.5	11.5
57.5°	586.3	381.6	11.8	13.3	14.4	14.4	13.0	11.5	9.6	8.5	8.1
60°	580.0	344.6	8.9	9.6	11.1	11.5	10.4	8.5	6.7	5.6	5.6
62.5°	557.4	315.3	7.0	6.3	8.1	8.5	7.4	5.6	3.7	2.6	2.2
65°	514.5	270.2	5.2	4.4	5.6	5.9	4.8	2.6	1.1	0.4	0.0
67.5°	412.7	203.6	3.3	3.0	3.7	3.7	2.2	0.7	0.0	0.0	0.0
70°	228.4	114.4	2.2	1.5	1.9	1.1	0.4	0.0	0.0	0.0	0.0
72.5°	65.9	32.6	1.1	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	17.8	7.8	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.8	3.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	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)