

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: P676385

Luminaire Tested: **CCW-SA-1A-727-U-T3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676385  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-727-U-T3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
T3 distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

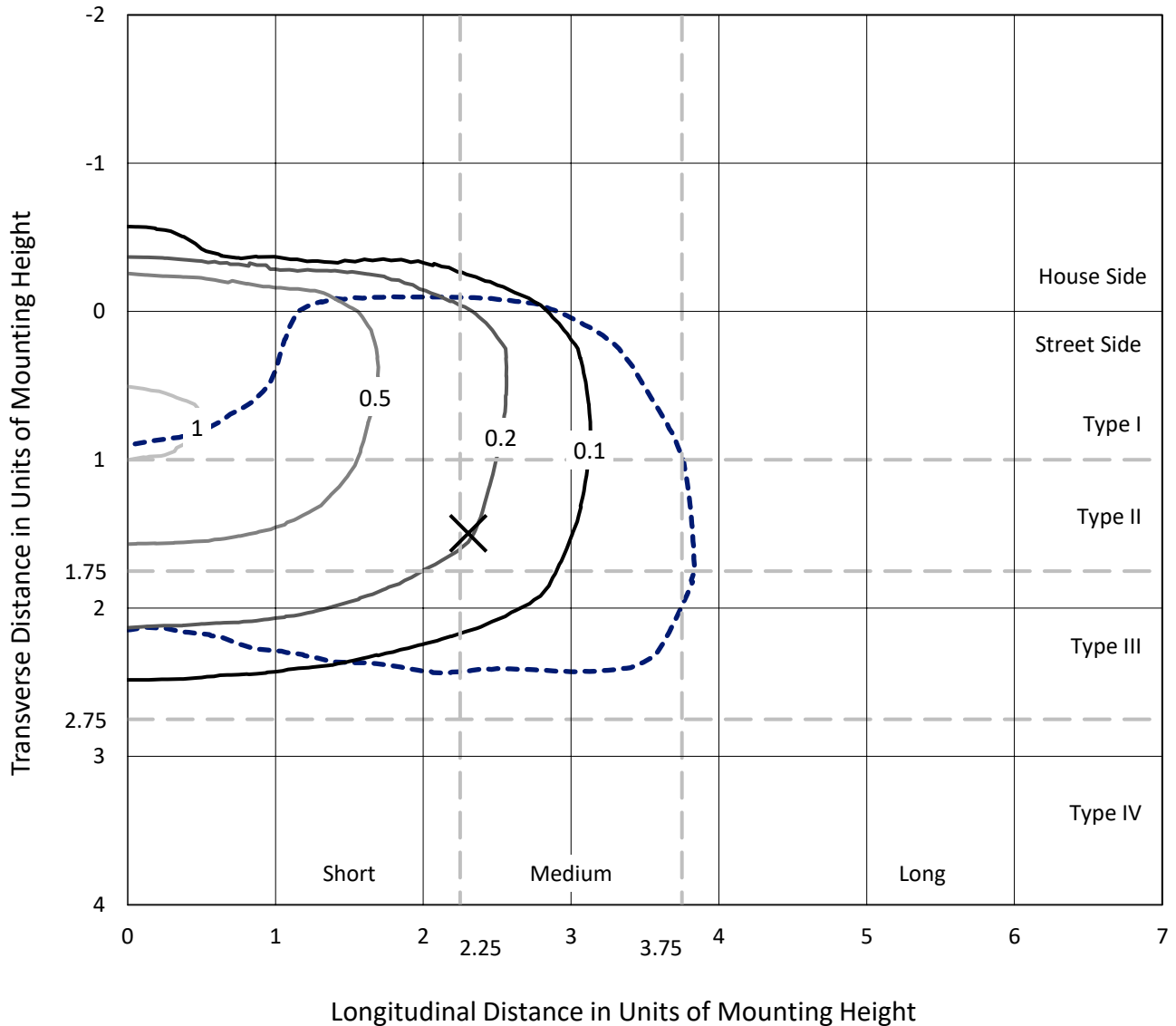
Lumens per Lamp: N/A  
Luminaire Lumens: 1648.3 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1

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

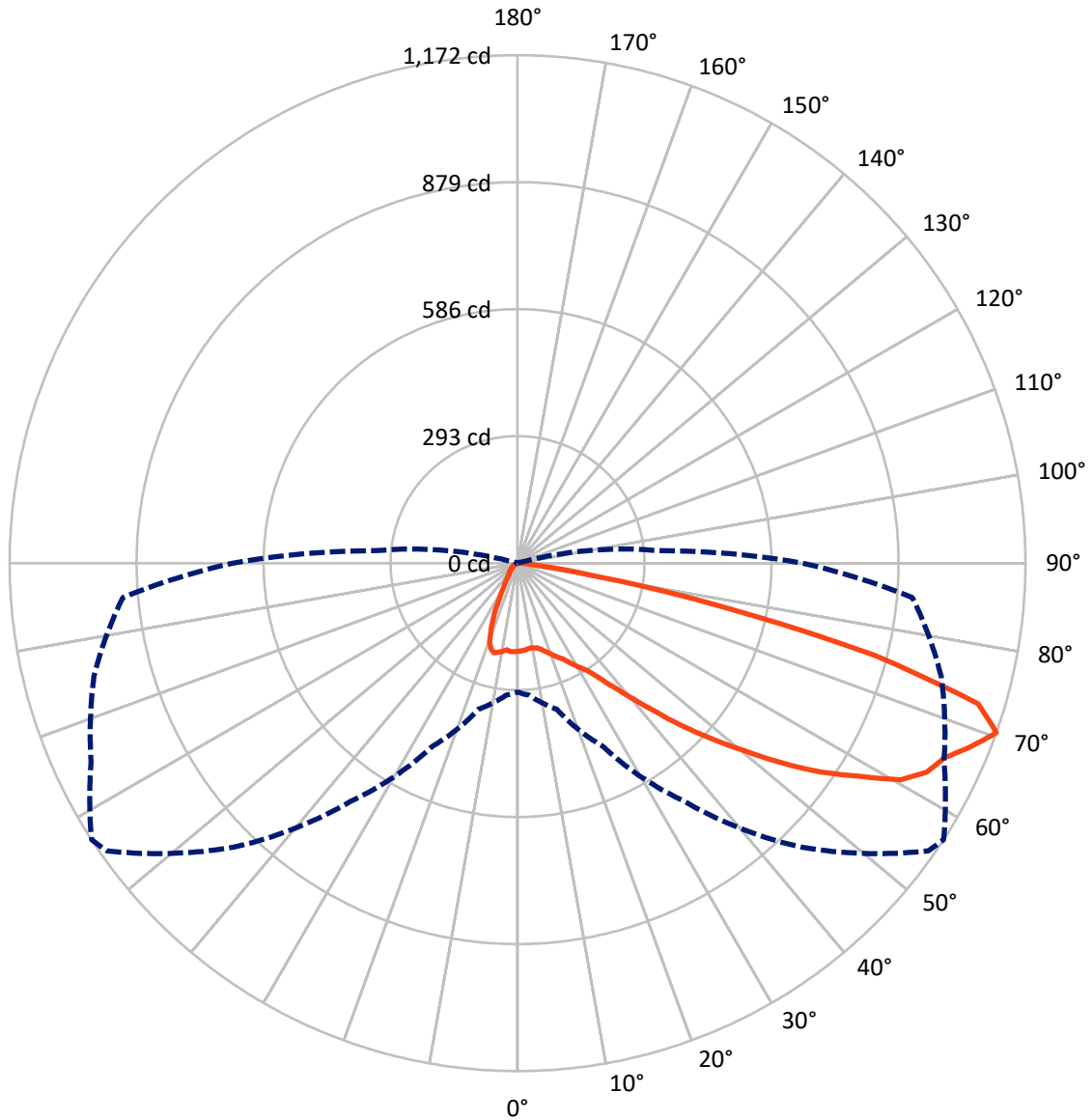
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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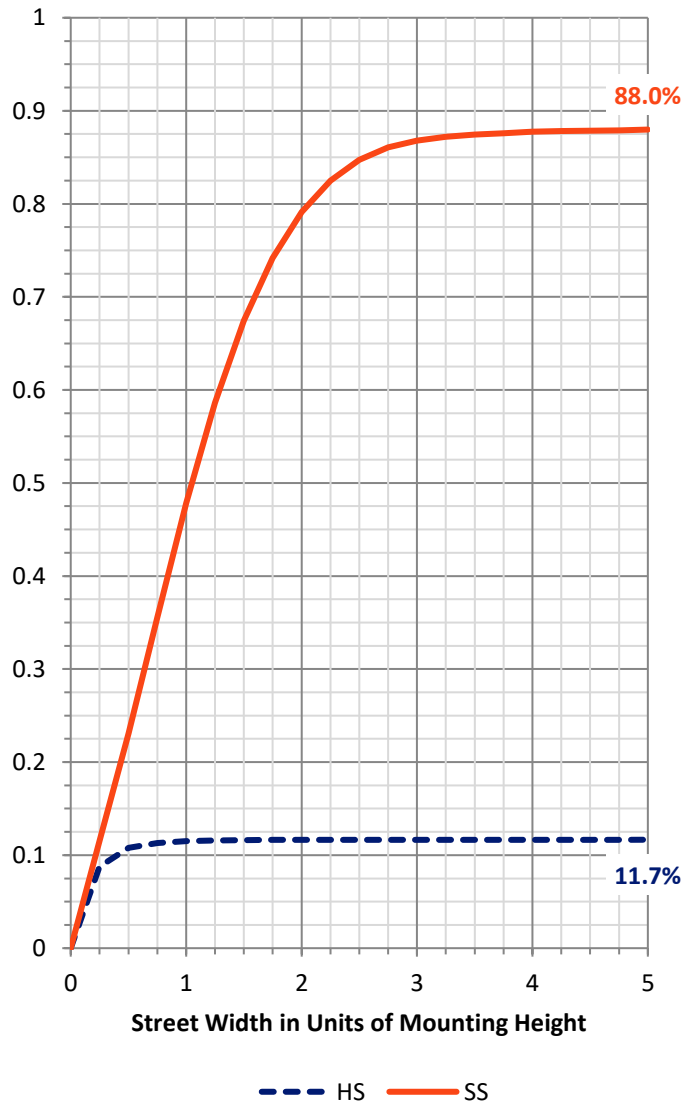
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	194.3	0.0	194.3
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	1454.0	0.0	1454.0
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	1648.3	0.0	1648.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.0	1.2
10°-20°	53.1	3.2
20°-30°	89.5	5.4
30°-40°	153.2	9.3
40°-50°	257.2	15.6
50°-60°	394.8	24.0
60°-70°	455.8	27.7
70°-80°	215.3	13.1
80°-90°	10.2	0.6
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°	1648.3	100.0
0°-180°	1648.3	100.0

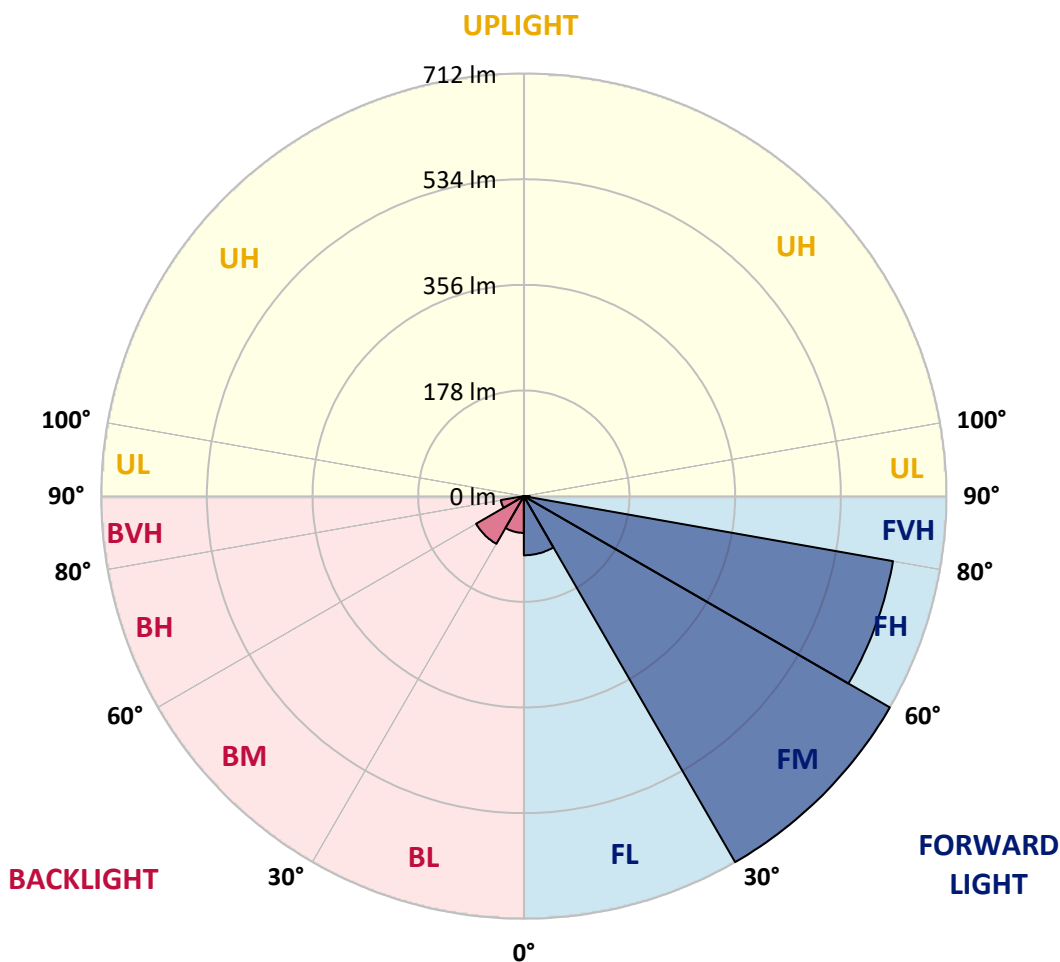


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	99.7	6.0			
FM (30°-60°)	712.4	43.2			
FH (60°-80°)	631.9	38.3			G0/660
FVH (80°-90°)	10.0	0.6			G1/100
BL (0°-30°)	61.9	3.8	B0/110		
BM (30°-60°)	92.9	5.6	B0/220		
BH (60°-80°)	39.3	2.4	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4
2.5°	200.4	199.2	200.4	202.1	200.4	201.7	201.3	202.5	200.8	200.8	202.1
5°	187.4	189.5	190.3	192.4	194.5	198.3	200.8	200.8	203.4	204.6	206.3
7.5°	182.7	179.4	182.7	184.4	186.5	192.8	196.6	198.3	201.7	206.3	208.8
10°	176.0	178.5	178.5	184.0	187.0	190.7	197.5	198.7	206.3	211.0	213.5
12.5°	175.6	175.6	177.7	181.5	187.4	194.5	203.0	200.4	208.4	216.8	221.1
15°	176.8	179.8	179.8	184.8	189.5	199.6	206.7	207.2	218.5	227.0	230.7
17.5°	182.3	181.1	182.7	185.7	192.8	202.5	214.3	215.6	228.6	240.0	245.5
20°	193.7	195.8	193.3	191.6	194.5	207.2	222.3	224.8	239.6	250.5	256.0
22.5°	236.2	234.5	224.4	212.6	207.6	213.5	229.9	235.8	253.1	266.1	270.7
25°	284.2	281.3	269.5	251.8	228.6	226.1	245.1	245.1	269.9	284.2	283.0
27.5°	329.7	328.9	315.0	296.4	263.6	245.5	257.3	261.9	288.9	300.6	295.2
30°	376.0	376.9	364.2	341.9	307.4	276.6	274.5	278.3	303.2	321.7	310.3
32.5°	429.9	422.3	413.5	382.8	351.2	316.6	296.9	295.2	319.2	336.0	320.9
35°	477.9	473.3	463.6	435.8	399.6	358.3	330.5	326.3	339.4	361.7	345.3
37.5°	520.0	515.4	502.8	484.2	456.0	410.1	371.0	364.6	370.1	393.7	373.9
40°	556.2	557.5	554.1	536.0	509.9	468.2	423.2	413.1	408.4	429.5	407.2
42.5°	582.3	594.5	595.4	573.1	552.0	529.3	478.8	470.8	459.8	477.5	461.9
45°	637.1	630.3	634.5	626.5	603.4	600.0	542.8	538.1	523.0	528.9	512.4
47.5°	680.0	678.8	686.8	673.7	667.4	667.8	615.6	607.6	586.1	597.1	578.5
50°	704.9	698.1	727.2	737.3	736.0	741.1	689.3	682.6	661.9	677.9	638.3
52.5°	710.8	723.0	750.3	787.0	802.6	813.1	769.7	767.2	744.9	755.0	700.2
55°	725.5	737.3	753.3	813.5	871.2	873.7	848.9	851.4	831.6	829.1	759.2
57.5°	725.1	722.6	766.8	836.7	916.7	952.9	939.4	927.2	905.7	880.9	797.1
60°	698.6	697.3	743.2	839.6	941.5	1024.5	1029.9	1015.6	961.7	925.1	841.7
62.5°	645.9	651.0	697.3	814.3	965.1	1050.1	1070.4	1060.7	993.7	954.6	894.3
65°	585.7	575.2	629.1	751.2	912.0	1042.6	1086.4	1083.0	1031.6	986.6	942.8
67.5°	469.9	474.5	515.8	646.3	821.5	1014.8	1123.8	1128.9	1061.9	1014.8	957.5
70°	297.7	306.1	349.1	467.0	670.8	927.2	1157.5	1172.3	1085.9	1012.2	914.6
72.5°	86.7	90.1	148.6	232.9	427.4	743.6	1103.6	1111.2	1039.2	918.8	707.4
75°	28.6	30.3	43.8	75.8	167.6	384.4	815.2	851.0	827.0	666.1	404.6
77.5°	18.9	19.8	24.0	36.2	63.6	120.4	437.1	475.4	466.1	312.0	130.5
80°	13.9	14.3	17.7	24.4	38.7	43.4	161.3	186.5	180.2	71.6	26.1
82.5°	8.8	8.8	13.1	17.3	24.4	21.5	46.7	51.8	50.5	27.4	10.1
85°	5.9	6.3	9.7	13.5	13.5	10.1	13.5	15.6	16.8	14.7	4.6
87.5°	1.7	2.1	5.5	9.3	5.5	5.1	4.6	5.1	5.9	8.0	2.5
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°	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4
2.5°	203.4	205.1	204.6	205.5	204.2	203.0	204.2	204.2	204.2	203.0	202.1
5°	205.1	204.2	205.1	203.4	205.1	203.4	202.5	200.0	199.6	199.6	201.3
7.5°	207.6	208.4	204.6	204.6	200.8	201.7	199.6	200.0	199.2	197.9	197.1
10°	211.4	214.7	211.0	209.7	205.5	202.1	197.1	194.5	194.5	192.8	194.5
12.5°	221.9	220.6	218.5	214.3	209.3	202.5	190.3	178.1	168.0	160.4	164.2
15°	230.3	229.9	227.0	219.0	212.2	191.6	160.8	129.3	112.4	104.8	103.6
17.5°	243.4	242.1	237.1	226.5	204.2	158.7	110.3	83.8	67.4	63.6	62.3
20°	255.6	255.2	244.2	230.7	184.0	115.8	72.0	55.2	50.5	50.9	50.1
22.5°	268.6	266.5	253.5	225.7	146.5	77.1	51.4	49.3	47.6	47.2	48.0
25°	283.4	275.8	262.7	214.3	107.8	53.1	48.4	46.7	45.1	44.6	44.6
27.5°	289.3	284.2	267.0	187.0	68.2	46.3	45.5	43.4	41.3	40.0	39.6
30°	302.7	294.3	271.2	147.0	48.4	42.5	41.3	38.7	35.8	33.7	33.7
32.5°	316.2	306.1	271.6	102.7	40.4	38.3	36.2	32.8	29.1	26.9	27.4
35°	333.1	319.2	267.0	66.5	36.2	33.7	29.5	25.7	22.3	20.6	20.6
37.5°	361.7	348.6	248.0	43.8	32.8	28.6	24.4	20.2	17.3	16.0	16.0
40°	397.9	381.1	221.9	34.5	29.1	24.4	19.4	15.6	13.9	12.6	12.6
42.5°	441.3	420.2	183.2	30.7	25.7	20.2	15.2	12.2	10.5	10.5	10.1
45°	484.6	450.1	143.6	28.2	22.7	16.8	11.8	9.7	8.8	8.4	8.4
47.5°	546.5	486.3	102.7	25.7	19.8	13.1	9.7	8.0	7.2	6.7	7.2
50°	605.9	520.4	72.8	23.2	16.4	10.5	8.0	7.2	6.3	5.9	5.9
52.5°	658.1	544.0	50.9	20.2	13.9	8.8	7.2	6.3	5.9	5.5	5.5
55°	686.8	536.0	34.9	17.3	11.4	7.6	6.3	5.5	5.1	4.6	4.6
57.5°	716.2	513.7	26.5	14.3	9.3	7.2	5.9	5.1	4.6	4.2	4.2
60°	741.1	497.3	20.6	11.4	7.6	5.9	5.1	4.2	3.8	3.4	2.9
62.5°	742.3	464.4	15.2	8.4	5.9	5.1	4.2	3.4	2.1	1.7	1.3
65°	747.4	429.9	10.9	6.3	4.2	3.8	2.9	1.7	0.8	0.0	0.0
67.5°	729.7	389.1	8.8	4.6	2.9	2.1	1.3	0.4	0.0	0.0	0.0
70°	657.7	328.4	6.7	3.4	2.1	1.3	0.4	0.0	0.0	0.0	0.0
72.5°	470.8	213.5	4.6	2.5	0.8	0.4	0.0	0.0	0.0	0.0	0.0
75°	251.0	91.0	3.4	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	78.7	23.2	2.1	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	17.3	6.3	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.9	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.4	0.4	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)