

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: P676695

Luminaire Tested: **CCW-SA-1A-735-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676695  
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-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
T4W 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: 1946.8 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

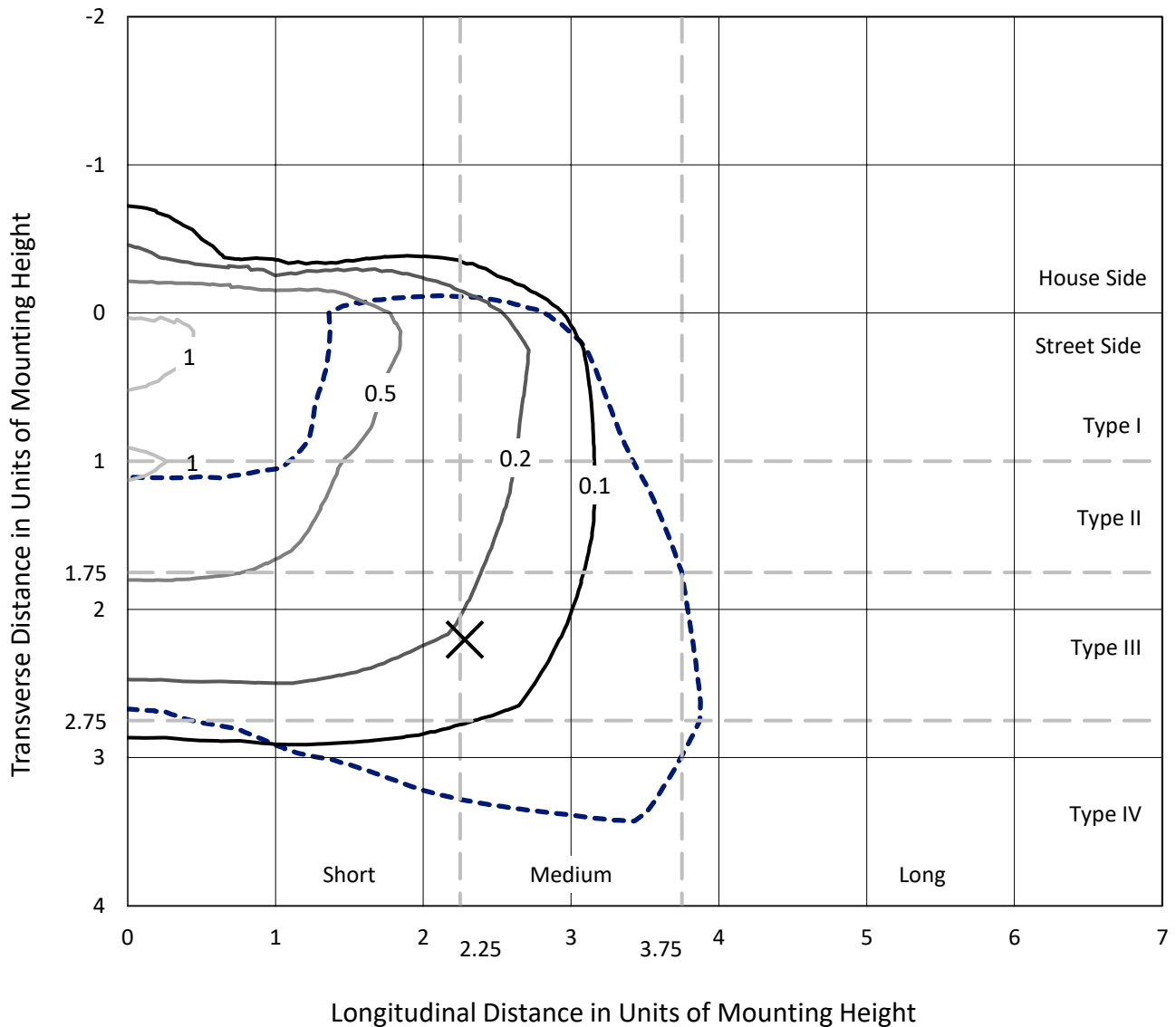
Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

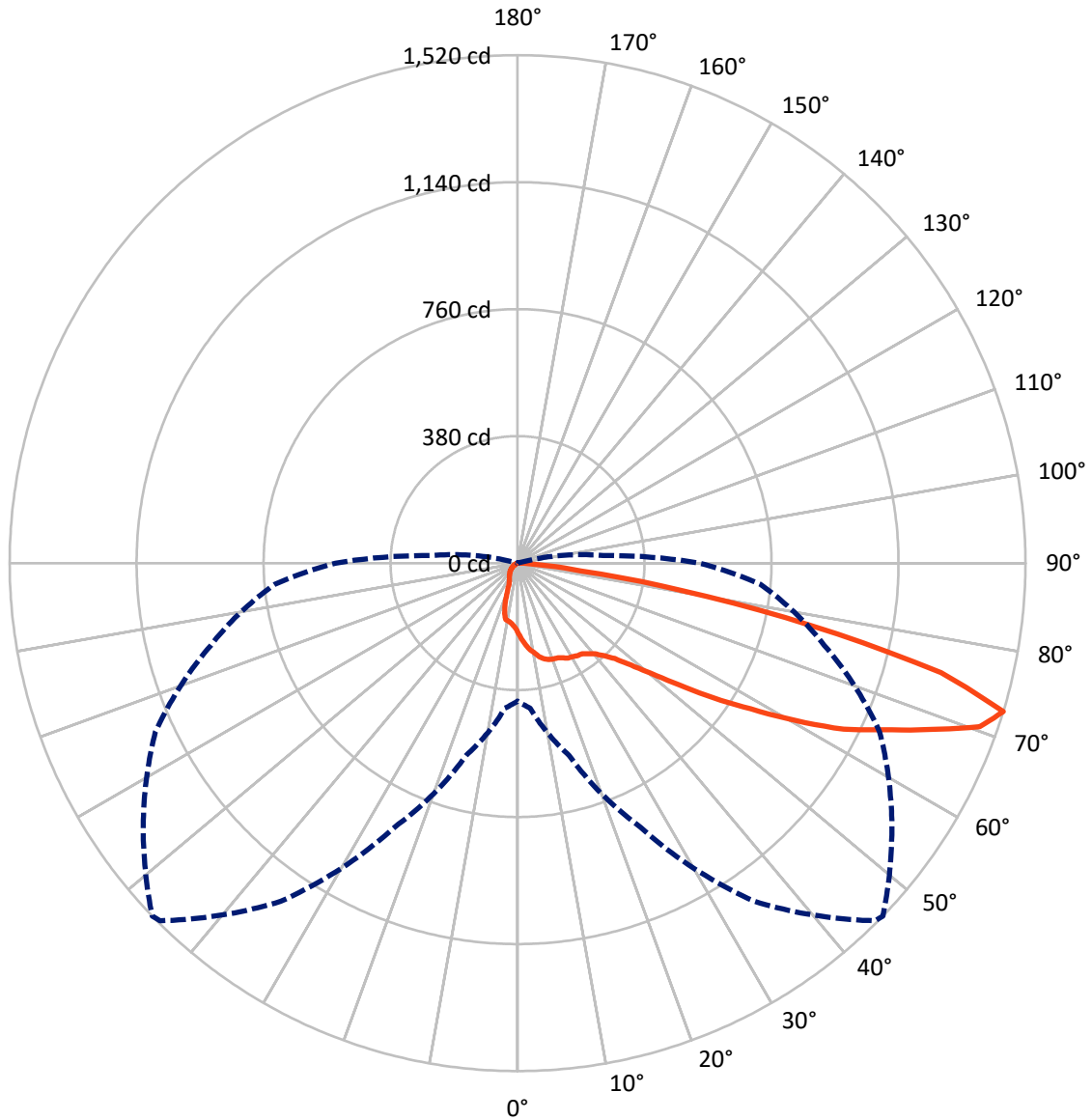
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical



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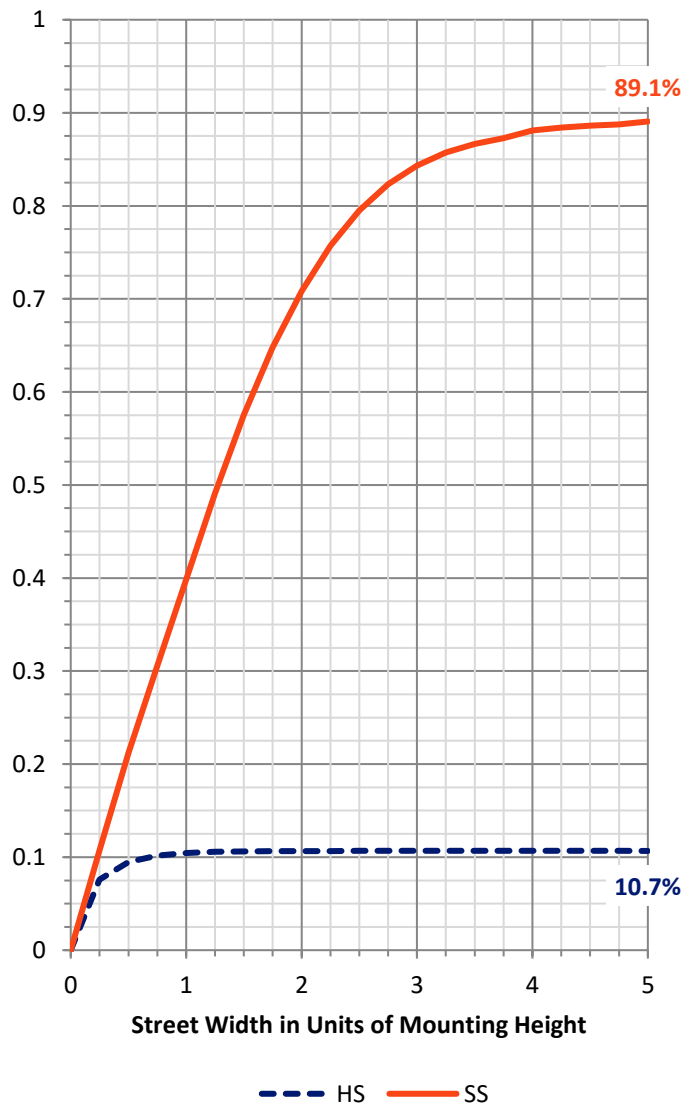
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	209.6	0.0	209.6
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	1737.2	0.0	1737.2
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	1946.8	0.0	1946.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.8	1.1
10°-20°	62.9	3.2
20°-30°	98.4	5.1
30°-40°	137.8	7.1
40°-50°	227.3	11.7
50°-60°	408.5	21.0
60°-70°	592.1	30.4
70°-80°	369.6	19.0
80°-90°	29.3	1.5
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°	1946.8	100.0
0°-180°	1946.8	100.0

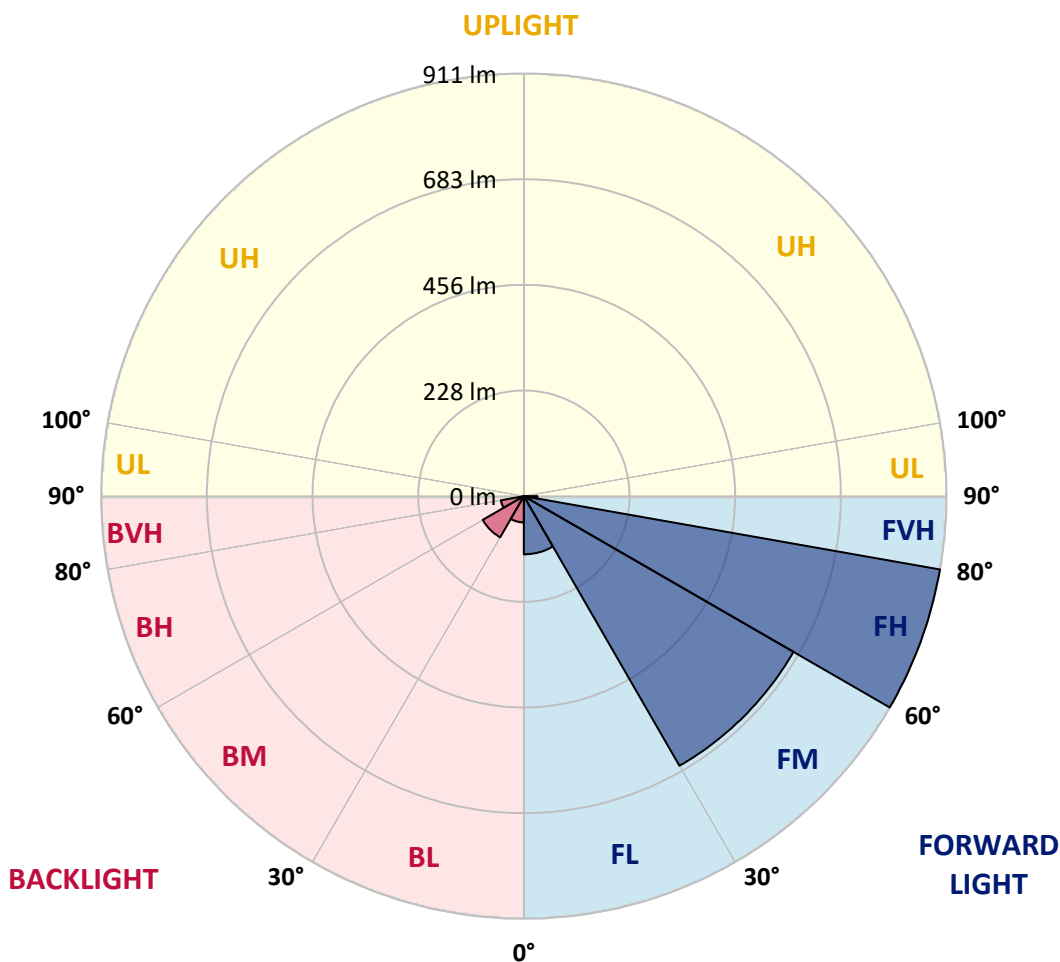


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	125.5	6.4			
FM (30°-60°)	671.3	34.5			
FH (60°-80°)	911.3	46.8			G1/1800
FVH (80°-90°)	29.1	1.5			G1/100
BL (0°-30°)	56.6	2.9	B0/110		
BM (30°-60°)	102.4	5.3	B0/220		
BH (60°-80°)	50.4	2.6	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	208.1	208.1	208.1	208.1	208.1	208.1	208.1	208.1	208.1	208.1	208.1
2.5°	232.9	231.9	233.4	232.9	226.9	227.9	227.4	223.5	216.5	212.5	210.1
5°	259.7	262.2	260.2	255.7	252.3	245.3	244.3	237.9	226.9	220.0	212.5
7.5°	287.5	287.5	283.5	276.6	269.1	261.7	260.7	249.8	240.3	228.4	218.0
10°	308.4	305.9	302.9	295.5	287.0	277.1	272.1	264.2	253.7	239.3	225.9
12.5°	326.7	322.8	317.8	306.9	297.0	286.0	287.0	274.1	267.2	254.2	234.4
15°	337.2	333.7	329.2	319.3	303.9	298.9	297.0	289.0	276.6	263.7	244.8
17.5°	339.7	337.2	331.2	318.3	309.9	303.9	303.4	294.0	288.5	277.6	256.7
20°	334.7	330.2	325.8	317.3	309.4	307.4	305.9	305.9	298.9	284.5	264.2
22.5°	326.2	321.3	318.8	313.8	307.4	306.9	307.9	306.9	301.4	292.0	272.1
25°	319.8	317.3	313.3	311.8	307.9	315.3	313.8	312.3	310.9	299.9	284.5
27.5°	321.8	321.3	318.3	312.3	309.4	317.3	321.8	322.3	321.8	310.9	296.0
30°	322.8	320.3	317.3	315.8	316.8	324.8	324.8	335.7	331.2	320.3	307.4
32.5°	334.2	332.7	322.8	319.3	319.8	329.2	329.7	340.7	339.2	331.7	317.3
35°	358.5	348.6	334.2	324.3	324.3	336.7	332.7	348.6	352.6	340.7	324.3
37.5°	394.8	387.3	361.5	339.2	330.7	339.7	343.6	352.6	364.5	354.1	338.2
40°	466.8	465.3	428.5	380.4	347.1	355.1	356.5	370.4	378.4	364.0	359.5
42.5°	572.1	564.6	530.3	454.4	376.9	373.4	378.9	387.8	406.7	394.8	383.9
45°	674.8	671.4	637.1	552.2	431.0	410.2	407.2	423.1	450.9	438.0	429.5
47.5°	749.3	742.4	723.0	651.5	510.5	453.4	455.4	471.2	506.5	496.6	499.1
50°	806.4	803.0	782.6	743.4	610.8	521.4	517.4	533.3	581.0	587.4	594.4
52.5°	869.0	875.5	848.2	814.9	729.5	612.8	603.8	609.3	670.9	685.8	705.1
55°	929.1	939.5	912.2	907.7	853.6	714.1	712.6	699.7	779.1	781.1	791.5
57.5°	968.3	964.8	962.9	987.2	977.8	830.3	822.8	809.9	881.9	869.0	900.3
60°	971.3	981.2	1014.5	1074.6	1091.5	966.8	955.9	920.7	970.8	940.0	999.6
62.5°	993.6	1001.6	1063.2	1146.1	1167.9	1087.0	1094.5	1005.1	1046.8	1022.4	1109.8
65°	937.0	961.9	1085.5	1201.7	1268.3	1208.7	1201.2	1113.8	1124.7	1101.9	1218.6
67.5°	885.9	895.3	1024.4	1218.6	1347.7	1330.8	1327.8	1210.2	1205.2	1163.0	1249.4
70°	720.0	731.5	859.1	1132.2	1374.5	1473.3	1466.4	1345.2	1259.8	1129.7	1091.5
72.5°	412.7	435.5	595.4	872.0	1235.0	1513.1	1519.5	1367.1	1195.3	949.9	729.0
75°	135.1	141.5	247.3	494.1	923.6	1319.9	1308.5	1174.9	964.3	627.2	329.2
77.5°	45.7	46.7	73.0	178.8	512.0	891.8	898.3	839.7	592.4	260.7	90.9
80°	23.3	24.8	35.8	67.0	210.5	485.7	496.1	478.7	248.3	77.0	21.8
82.5°	10.9	11.4	20.9	37.2	96.3	190.7	190.7	209.6	87.9	43.2	8.9
85°	4.0	4.0	10.9	21.4	40.7	63.6	64.1	64.6	46.2	32.3	4.0
87.5°	1.5	1.5	5.5	8.9	14.9	19.4	19.4	15.4	23.3	21.4	1.5
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°	208.1	208.1	208.1	208.1	208.1	208.1	208.1	208.1	208.1	208.1	208.1
2.5°	209.1	206.1	203.6	200.1	195.7	193.2	193.7	190.7	190.7	189.2	188.7
5°	209.1	206.1	199.6	193.7	189.7	184.7	182.2	180.3	180.3	179.3	179.8
7.5°	210.5	206.1	197.1	189.2	182.7	177.8	173.8	173.3	172.3	169.8	171.8
10°	219.5	213.0	198.1	187.2	179.8	174.3	167.3	165.4	162.4	157.9	158.4
12.5°	226.9	218.5	205.1	190.2	180.8	171.8	155.9	138.5	131.1	123.2	123.6
15°	237.9	225.9	207.6	194.2	180.8	152.0	123.2	100.8	88.9	82.9	82.9
17.5°	243.8	233.9	214.5	196.6	166.4	123.6	87.4	68.0	66.0	67.0	67.0
20°	256.2	242.8	222.5	198.6	142.5	87.9	64.1	62.1	63.1	65.1	64.6
22.5°	264.2	250.8	228.4	189.7	110.2	63.1	60.1	59.1	60.1	62.6	62.6
25°	270.6	262.2	237.9	167.8	78.0	57.1	56.1	57.1	58.1	59.1	60.6
27.5°	286.5	272.1	244.3	139.5	56.1	53.1	54.1	54.6	54.6	56.1	56.6
30°	297.0	285.5	249.3	107.8	49.7	49.2	50.2	50.7	51.1	52.6	53.1
32.5°	306.9	302.9	242.8	73.0	46.7	45.7	45.2	45.7	47.7	49.2	48.7
35°	321.3	318.8	233.4	50.7	43.7	41.7	40.7	41.2	42.7	44.2	43.7
37.5°	338.7	341.1	210.5	44.2	40.7	38.2	36.2	36.2	36.7	38.2	38.7
40°	359.0	365.5	183.7	41.2	38.7	35.8	33.8	31.3	30.8	30.3	30.8
42.5°	396.3	403.7	153.4	39.2	35.8	32.3	29.3	26.3	23.8	22.3	22.3
45°	448.4	442.4	113.7	37.2	34.3	29.3	24.8	21.4	17.9	16.4	16.4
47.5°	520.4	500.1	78.0	35.3	31.8	25.8	20.9	16.4	13.4	11.9	11.9
50°	620.2	553.2	50.7	33.3	30.3	22.3	16.9	11.9	9.9	9.4	9.9
52.5°	714.6	607.3	40.2	30.8	27.3	19.4	12.9	9.9	8.9	8.4	8.4
55°	801.5	634.6	35.8	28.3	24.8	15.9	10.9	8.4	7.9	7.4	7.4
57.5°	875.0	644.1	30.8	24.8	19.9	12.4	8.9	7.4	6.5	6.0	6.0
60°	938.5	646.5	23.8	19.9	14.4	9.4	7.4	6.5	5.5	4.5	4.5
62.5°	989.2	629.2	16.9	13.9	9.9	7.4	6.5	4.5	3.0	2.0	1.5
65°	1029.4	594.4	11.4	9.4	6.5	5.5	4.0	2.0	0.5	0.0	0.0
67.5°	982.2	515.4	8.9	7.0	4.5	3.5	2.0	0.5	0.0	0.0	0.0
70°	801.0	399.7	6.5	4.5	3.0	1.0	0.5	0.0	0.0	0.0	0.0
72.5°	545.2	257.7	5.0	3.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0
75°	244.8	92.4	3.5	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	59.6	21.8	2.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.9	5.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.0	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.5	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)