

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: P676750

Luminaire Tested: **CCW-SA-1A-830-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676750
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-830-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) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

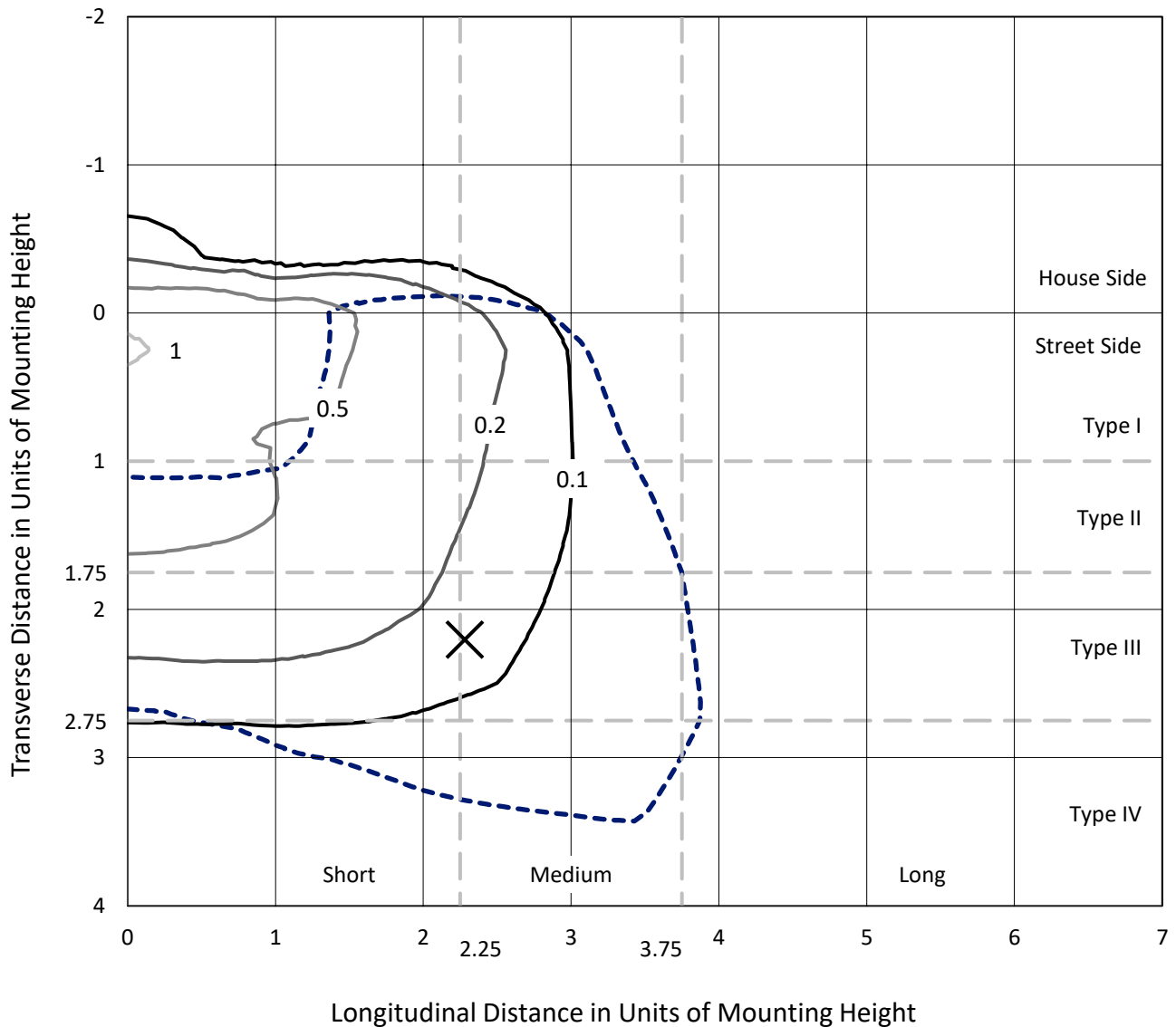
Lumens per Lamp: N/A
Luminaire Lumens: 1568.4 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

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

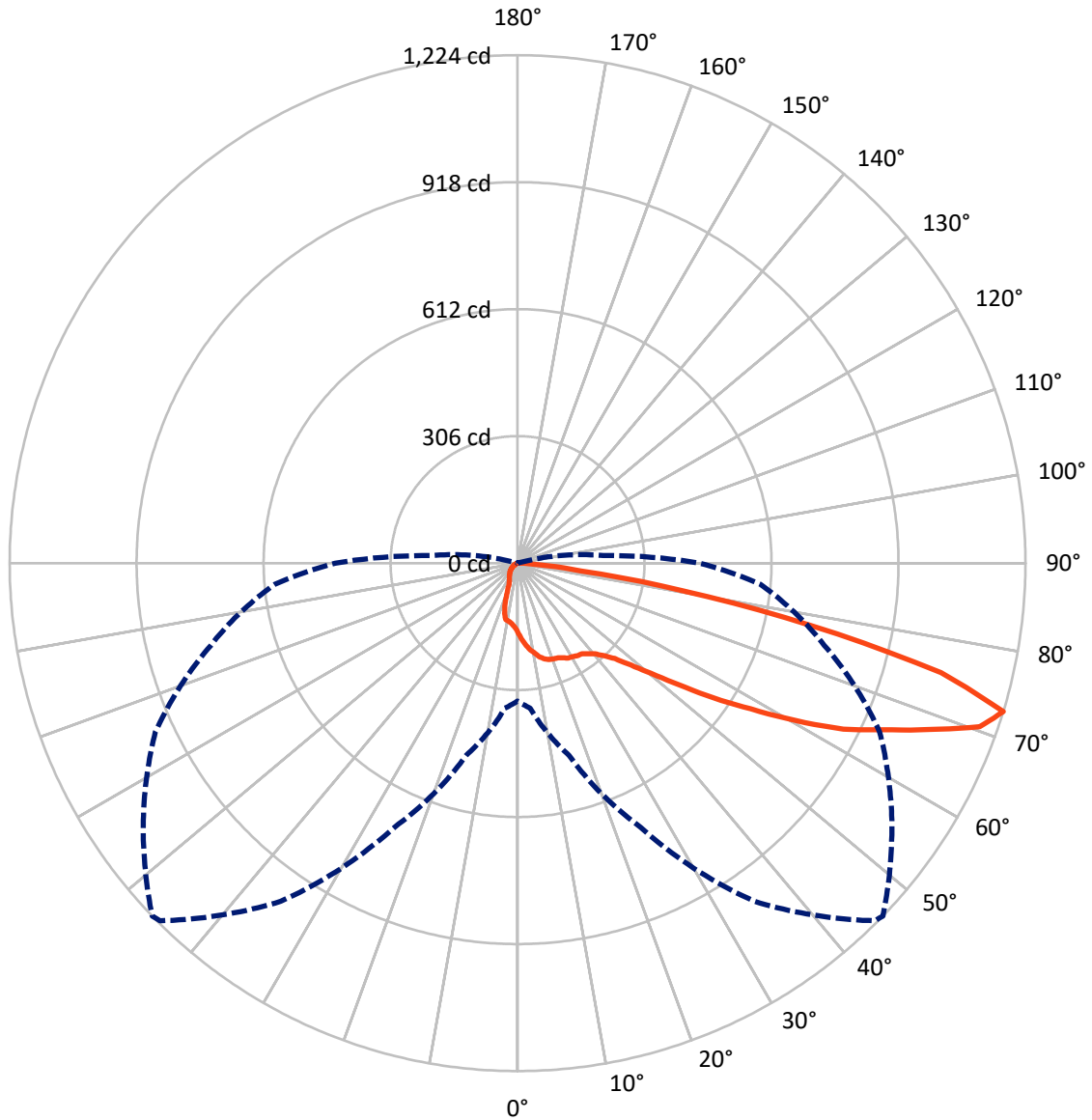
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.1 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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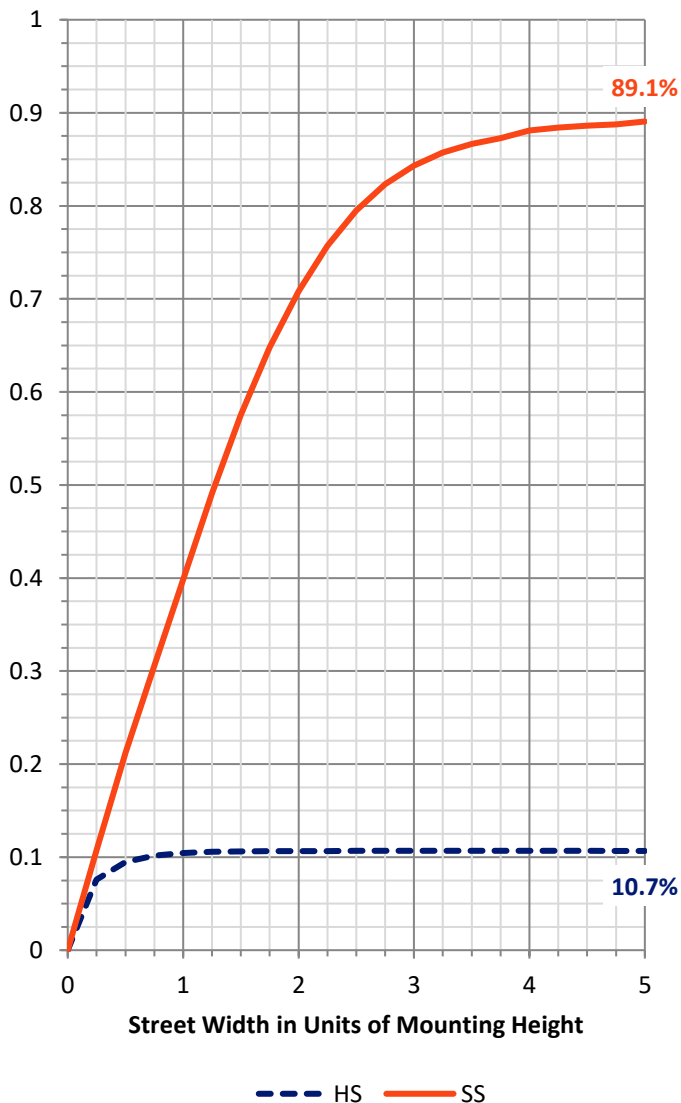
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	168.8	0.0	168.8
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	1399.5	0.0	1399.5
	% Fixture	89.2	0.0	89.2
Total	Lumens	1568.4	0.0	1568.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.8	1.1
10°-20°	50.6	3.2
20°-30°	79.3	5.1
30°-40°	111.0	7.1
40°-50°	183.1	11.7
50°-60°	329.1	21.0
60°-70°	477.0	30.4
70°-80°	297.7	19.0
80°-90°	23.6	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°	1568.4	100.0
0°-180°	1568.4	100.0

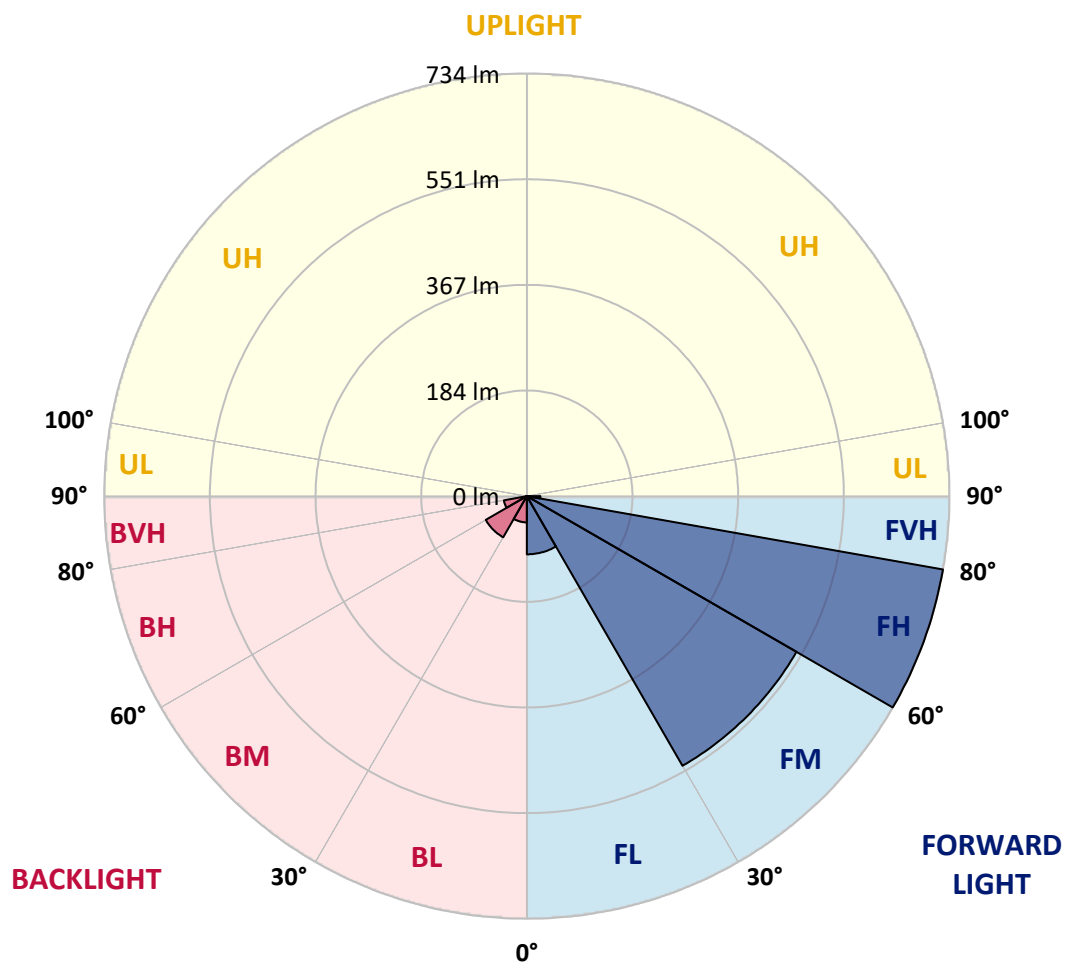


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	101.1	6.4			
FM (30°-60°)	540.8	34.5			
FH (60°-80°)	734.2	46.8			G1/1800
FVH (80°-90°)	23.5	1.5			G1/100
BL (0°-30°)	45.6	2.9	B0/110		
BM (30°-60°)	82.5	5.3	B0/220		
BH (60°-80°)	40.6	2.6	B0/110		G0/110
BVH (80°-90°)	0.1	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°	167.6	167.6	167.6	167.6	167.6	167.6	167.6	167.6	167.6	167.6	167.6
2.5°	187.6	186.8	188.0	187.6	182.8	183.6	183.2	180.0	174.4	171.2	169.2
5°	209.2	211.2	209.6	206.0	203.2	197.6	196.8	191.6	182.8	177.2	171.2
7.5°	231.6	231.6	228.4	222.8	216.8	210.8	210.0	201.2	193.6	184.0	175.6
10°	248.4	246.4	244.0	238.0	231.2	223.2	219.2	212.8	204.4	192.8	182.0
12.5°	263.2	260.0	256.0	247.2	239.2	230.4	231.2	220.8	215.2	204.8	188.8
15°	271.6	268.8	265.2	257.2	244.8	240.8	239.2	232.8	222.8	212.4	197.2
17.5°	273.6	271.6	266.8	256.4	249.6	244.8	244.4	236.8	232.4	223.6	206.8
20°	269.6	266.0	262.4	255.6	249.2	247.6	246.4	246.4	240.8	229.2	212.8
22.5°	262.8	258.8	256.8	252.8	247.6	247.2	248.0	247.2	242.8	235.2	219.2
25°	257.6	255.6	252.4	251.2	248.0	254.0	252.8	251.6	250.4	241.6	229.2
27.5°	259.2	258.8	256.4	251.6	249.2	255.6	259.2	259.6	259.2	250.4	238.4
30°	260.0	258.0	255.6	254.4	255.2	261.6	261.6	270.4	266.8	258.0	247.6
32.5°	269.2	268.0	260.0	257.2	257.6	265.2	265.6	274.4	273.2	267.2	255.6
35°	288.8	280.8	269.2	261.2	261.2	271.2	268.0	280.8	284.0	274.4	261.2
37.5°	318.0	312.0	291.2	273.2	266.4	273.6	276.8	284.0	293.6	285.2	272.4
40°	376.1	374.9	345.3	306.4	279.6	286.0	287.2	298.4	304.8	293.2	289.6
42.5°	460.9	454.9	427.3	366.1	303.6	300.8	305.2	312.4	327.6	318.0	309.2
45°	543.7	540.9	513.3	444.9	347.3	330.4	328.0	340.9	363.3	352.9	346.1
47.5°	603.7	598.1	582.5	524.9	411.3	365.3	366.9	379.7	408.1	400.1	402.1
50°	649.7	646.9	630.5	598.9	492.1	420.1	416.9	429.7	468.1	473.3	478.9
52.5°	700.1	705.3	683.3	656.5	587.7	493.7	486.5	490.9	540.5	552.5	568.1
55°	748.5	756.9	734.9	731.3	687.7	575.3	574.1	563.7	627.7	629.3	637.7
57.5°	780.1	777.3	775.7	795.3	787.7	668.9	662.9	652.5	710.5	700.1	725.3
60°	782.5	790.5	817.3	865.7	879.3	778.9	770.1	741.7	782.1	757.3	805.3
62.5°	800.5	806.9	856.5	923.3	940.9	875.7	881.7	809.7	843.3	823.7	894.1
65°	754.9	774.9	874.5	968.1	1021.8	973.7	967.7	897.3	906.1	887.7	981.7
67.5°	713.7	721.3	825.3	981.7	1085.8	1072.2	1069.8	974.9	970.9	936.9	1006.5
70°	580.1	589.3	692.1	912.1	1107.4	1187.0	1181.4	1083.8	1015.0	910.1	879.3
72.5°	332.4	350.9	479.7	702.5	994.9	1219.0	1224.2	1101.4	962.9	765.3	587.3
75°	108.8	114.0	199.2	398.1	744.1	1063.4	1054.2	946.5	776.9	505.3	265.2
77.5°	36.8	37.6	58.8	144.0	412.5	718.5	723.7	676.5	477.3	210.0	73.2
80°	18.8	20.0	28.8	54.0	169.6	391.3	399.7	385.7	200.0	62.0	17.6
82.5°	8.8	9.2	16.8	30.0	77.6	153.6	153.6	168.8	70.8	34.8	7.2
85°	3.2	3.2	8.8	17.2	32.8	51.2	51.6	52.0	37.2	26.0	3.2
87.5°	1.2	1.2	4.4	7.2	12.0	15.6	15.6	12.4	18.8	17.2	1.2
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°	167.6	167.6	167.6	167.6	167.6	167.6	167.6	167.6	167.6	167.6	167.6
2.5°	168.4	166.0	164.0	161.2	157.6	155.6	156.0	153.6	153.6	152.4	152.0
5°	168.4	166.0	160.8	156.0	152.8	148.8	146.8	145.2	145.2	144.4	144.8
7.5°	169.6	166.0	158.8	152.4	147.2	143.2	140.0	139.6	138.8	136.8	138.4
10°	176.8	171.6	159.6	150.8	144.8	140.4	134.8	133.2	130.8	127.2	127.6
12.5°	182.8	176.0	165.2	153.2	145.6	138.4	125.6	111.6	105.6	99.2	99.6
15°	191.6	182.0	167.2	156.4	145.6	122.4	99.2	81.2	71.6	66.8	66.8
17.5°	196.4	188.4	172.8	158.4	134.0	99.6	70.4	54.8	53.2	54.0	54.0
20°	206.4	195.6	179.2	160.0	114.8	70.8	51.6	50.0	50.8	52.4	52.0
22.5°	212.8	202.0	184.0	152.8	88.8	50.8	48.4	47.6	48.4	50.4	50.4
25°	218.0	211.2	191.6	135.2	62.8	46.0	45.2	46.0	46.8	47.6	48.8
27.5°	230.8	219.2	196.8	112.4	45.2	42.8	43.6	44.0	44.0	45.2	45.6
30°	239.2	230.0	200.8	86.8	40.0	39.6	40.4	40.8	41.2	42.4	42.8
32.5°	247.2	244.0	195.6	58.8	37.6	36.8	36.4	36.8	38.4	39.6	39.2
35°	258.8	256.8	188.0	40.8	35.2	33.6	32.8	33.2	34.4	35.6	35.2
37.5°	272.8	274.8	169.6	35.6	32.8	30.8	29.2	29.2	29.6	30.8	31.2
40°	289.2	294.4	148.0	33.2	31.2	28.8	27.2	25.2	24.8	24.4	24.8
42.5°	319.2	325.2	123.6	31.6	28.8	26.0	23.6	21.2	19.2	18.0	18.0
45°	361.3	356.5	91.6	30.0	27.6	23.6	20.0	17.2	14.4	13.2	13.2
47.5°	419.3	402.9	62.8	28.4	25.6	20.8	16.8	13.2	10.8	9.6	9.6
50°	499.7	445.7	40.8	26.8	24.4	18.0	13.6	9.6	8.0	7.6	8.0
52.5°	575.7	489.3	32.4	24.8	22.0	15.6	10.4	8.0	7.2	6.8	6.8
55°	645.7	511.3	28.8	22.8	20.0	12.8	8.8	6.8	6.4	6.0	6.0
57.5°	704.9	518.9	24.8	20.0	16.0	10.0	7.2	6.0	5.2	4.8	4.8
60°	756.1	520.9	19.2	16.0	11.6	7.6	6.0	5.2	4.4	3.6	3.6
62.5°	796.9	506.9	13.6	11.2	8.0	6.0	5.2	3.6	2.4	1.6	1.2
65°	829.3	478.9	9.2	7.6	5.2	4.4	3.2	1.6	0.4	0.0	0.0
67.5°	791.3	415.3	7.2	5.6	3.6	2.8	1.6	0.4	0.0	0.0	0.0
70°	645.3	322.0	5.2	3.6	2.4	0.8	0.4	0.0	0.0	0.0	0.0
72.5°	439.3	207.6	4.0	2.4	1.2	0.4	0.0	0.0	0.0	0.0	0.0
75°	197.2	74.4	2.8	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	48.0	17.6	2.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	12.8	4.4	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.8	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.4	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)