

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: P676772

Luminaire Tested: **CCW-SA-1A-840-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676772
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-840-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) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

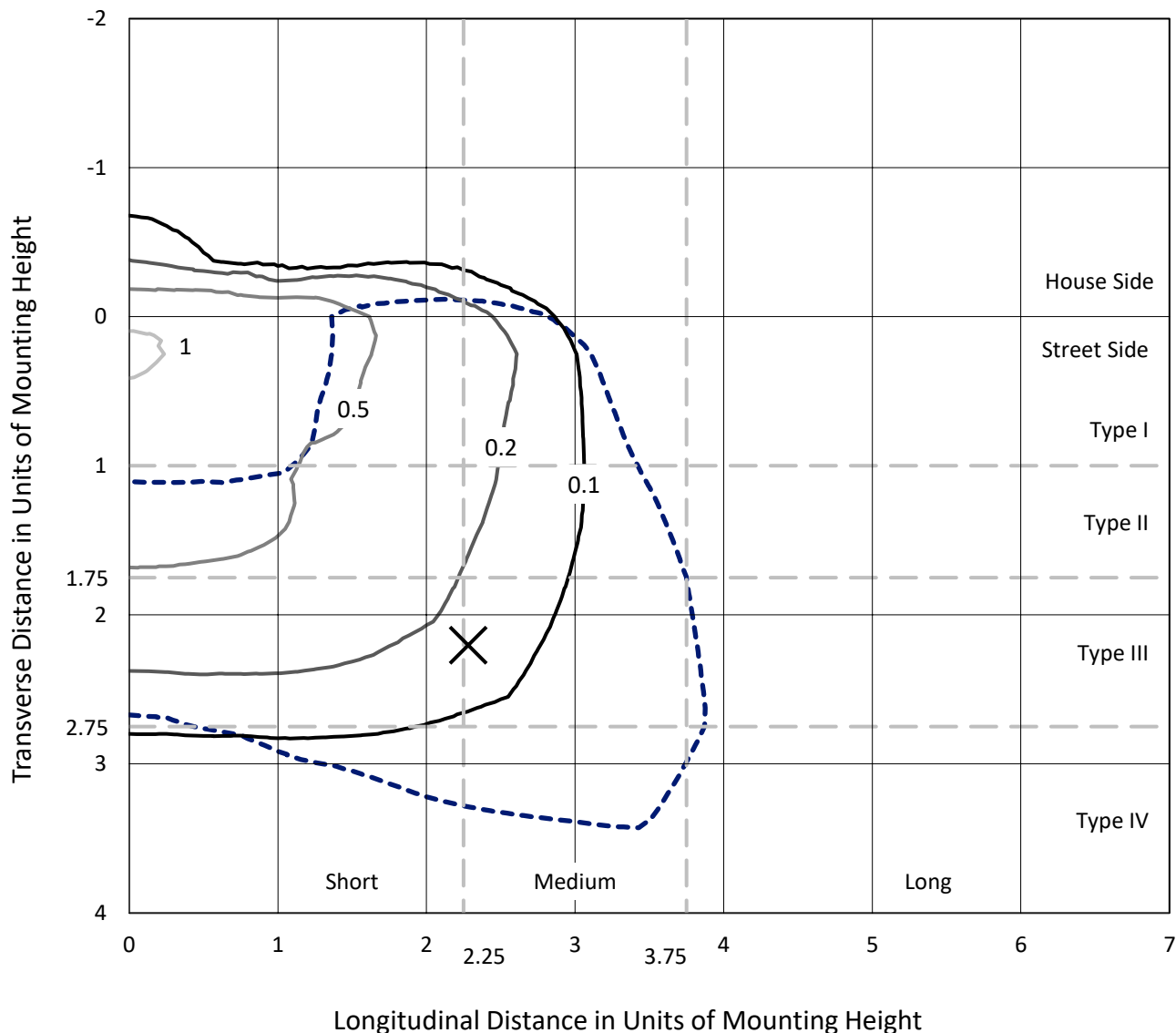
Lumens per Lamp: N/A
Luminaire Lumens: 1682.9 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

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

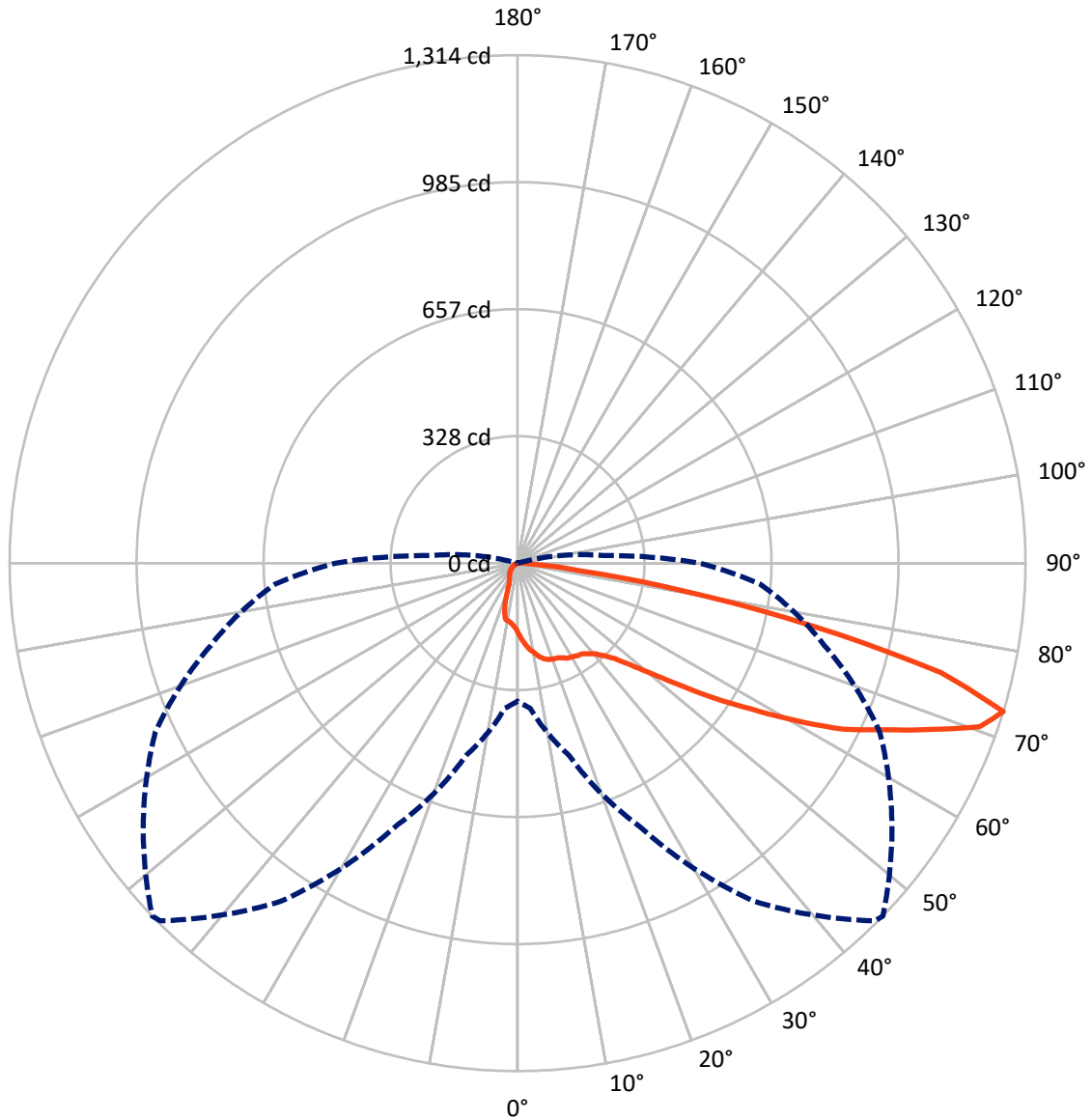
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.2 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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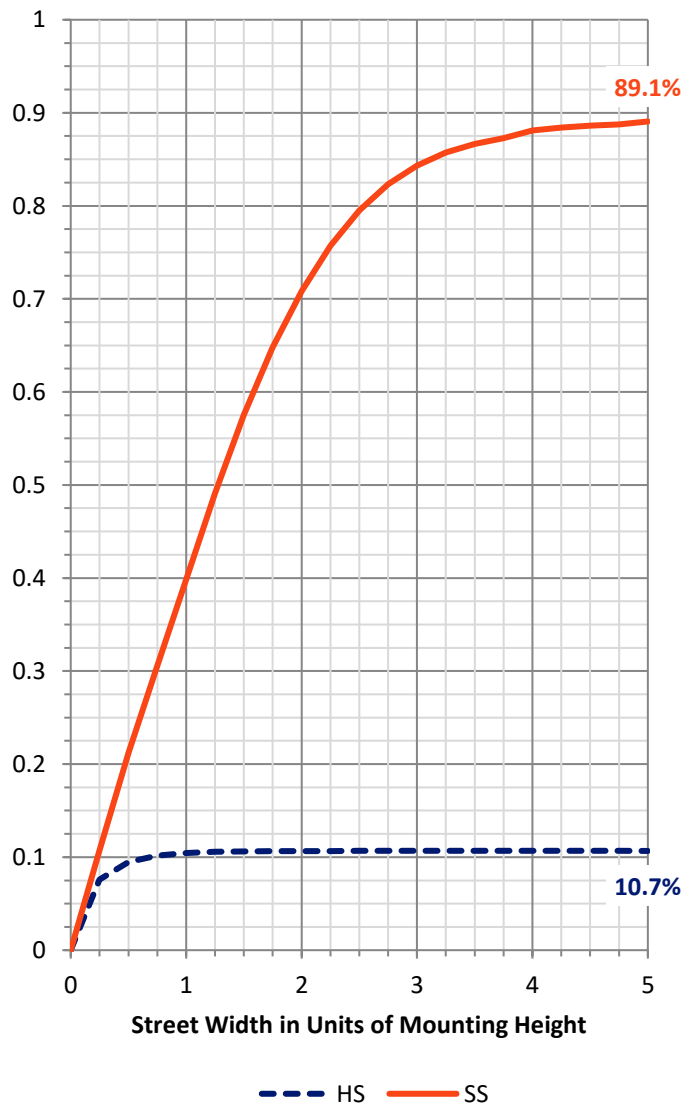
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	181.2	0.0	181.2
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	1501.7	0.0	1501.7
	% Fixture	89.2	0.0	89.2
Total	Lumens	1682.9	0.0	1682.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.0	1.1
10°-20°	54.3	3.2
20°-30°	85.1	5.1
30°-40°	119.2	7.1
40°-50°	196.5	11.7
50°-60°	353.2	21.0
60°-70°	511.9	30.4
70°-80°	319.5	19.0
80°-90°	25.3	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°	1682.9	100.0
0°-180°	1682.9	100.0



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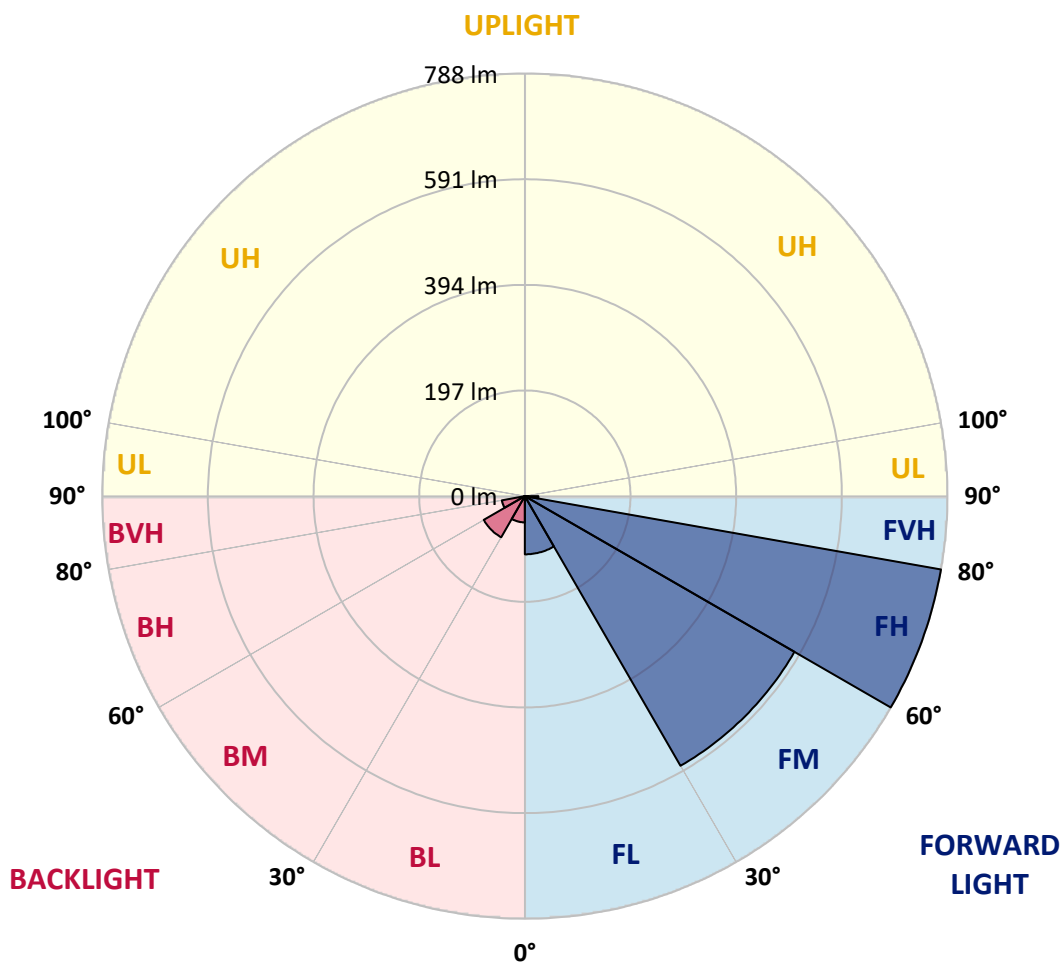
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	108.5	6.4			
FM (30°-60°)	580.3	34.5			
FH (60°-80°)	787.8	46.8			G1/1800
FVH (80°-90°)	25.2	1.5			G1/100
BL (0°-30°)	49.0	2.9	B0/110		
BM (30°-60°)	88.5	5.3	B0/220		
BH (60°-80°)	43.6	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°	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9
2.5°	201.3	200.5	201.8	201.3	196.2	197.0	196.6	193.2	187.2	183.7	181.6
5°	224.5	226.6	224.9	221.1	218.1	212.1	211.2	205.6	196.2	190.2	183.7
7.5°	248.5	248.5	245.1	239.1	232.7	226.2	225.4	215.9	207.8	197.5	188.4
10°	266.6	264.4	261.8	255.4	248.1	239.5	235.2	228.4	219.4	206.9	195.3
12.5°	282.5	279.0	274.7	265.3	256.7	247.3	248.1	237.0	230.9	219.8	202.6
15°	291.5	288.5	284.6	276.0	262.7	258.4	256.7	249.8	239.1	227.9	211.6
17.5°	293.6	291.5	286.3	275.2	267.9	262.7	262.3	254.1	249.4	240.0	221.9
20°	289.3	285.5	281.6	274.3	267.4	265.7	264.4	264.4	258.4	246.0	228.4
22.5°	282.0	277.7	275.6	271.3	265.7	265.3	266.1	265.3	260.6	252.4	235.2
25°	276.4	274.3	270.9	269.6	266.1	272.6	271.3	270.0	268.7	259.3	246.0
27.5°	278.2	277.7	275.2	270.0	267.4	274.3	278.2	278.6	278.2	268.7	255.8
30°	279.0	276.9	274.3	273.0	273.9	280.7	280.7	290.2	286.3	276.9	265.7
32.5°	288.9	287.6	279.0	276.0	276.4	284.6	285.0	294.5	293.2	286.7	274.3
35°	309.9	301.3	288.9	280.3	280.3	291.0	287.6	301.3	304.8	294.5	280.3
37.5°	341.3	334.8	312.5	293.2	285.9	293.6	297.0	304.8	315.1	306.1	292.3
40°	403.5	402.2	370.5	328.8	300.1	306.9	308.2	320.2	327.1	314.6	310.8
42.5°	494.5	488.1	458.5	392.8	325.8	322.8	327.5	335.3	351.6	341.3	331.8
45°	583.4	580.4	550.7	477.3	372.6	354.6	352.0	365.7	389.8	378.6	371.3
47.5°	647.8	641.7	625.0	563.2	441.3	391.9	393.6	407.4	437.8	429.3	431.4
50°	697.1	694.1	676.5	642.6	528.0	450.7	447.3	461.0	502.2	507.8	513.8
52.5°	751.2	756.8	733.2	704.4	630.6	529.7	522.0	526.7	579.9	592.8	609.6
55°	803.1	812.2	788.6	784.7	737.9	617.3	616.0	604.8	673.5	675.2	684.2
57.5°	837.1	834.1	832.3	853.4	845.2	717.7	711.3	700.1	762.4	751.2	778.2
60°	839.6	848.2	877.0	928.9	943.5	835.8	826.3	795.8	839.2	812.6	864.1
62.5°	859.0	865.8	919.0	990.7	1009.6	939.7	946.1	868.8	904.9	883.8	959.4
65°	810.0	831.5	938.4	1038.8	1096.3	1044.8	1038.4	962.8	972.3	952.5	1053.4
67.5°	765.8	774.0	885.6	1053.4	1165.0	1150.4	1147.8	1046.1	1041.8	1005.3	1080.0
70°	622.4	632.3	742.6	978.7	1188.2	1273.6	1267.6	1162.9	1089.0	976.6	943.5
72.5°	356.7	376.5	514.7	753.8	1067.6	1308.0	1313.5	1181.8	1033.2	821.2	630.2
75°	116.8	122.3	213.8	427.1	798.4	1141.0	1131.1	1015.6	833.6	542.2	284.6
77.5°	39.5	40.4	63.1	154.5	442.6	771.0	776.5	725.9	512.1	225.4	78.6
80°	20.2	21.5	30.9	58.0	182.0	419.8	428.8	413.8	214.6	66.5	18.9
82.5°	9.4	9.9	18.0	32.2	83.3	164.8	164.8	181.1	76.0	37.3	7.7
85°	3.4	3.4	9.4	18.5	35.2	54.9	55.4	55.8	39.9	27.9	3.4
87.5°	1.3	1.3	4.7	7.7	12.9	16.7	16.7	13.3	20.2	18.5	1.3
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°	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9
2.5°	180.7	178.1	176.0	173.0	169.1	167.0	167.4	164.8	164.8	163.5	163.1
5°	180.7	178.1	172.6	167.4	164.0	159.7	157.5	155.8	155.8	155.0	155.4
7.5°	182.0	178.1	170.4	163.5	158.0	153.7	150.2	149.8	149.0	146.8	148.5
10°	189.7	184.2	171.3	161.8	155.4	150.7	144.7	142.9	140.4	136.5	136.9
12.5°	196.2	188.9	177.3	164.4	156.3	148.5	134.8	119.8	113.3	106.5	106.9
15°	205.6	195.3	179.4	167.8	156.3	131.4	106.5	87.1	76.8	71.7	71.7
17.5°	210.8	202.2	185.4	170.0	143.8	106.9	75.5	58.8	57.1	58.0	58.0
20°	221.5	209.9	192.3	171.7	123.2	76.0	55.4	53.7	54.5	56.2	55.8
22.5°	228.4	216.8	197.5	164.0	95.3	54.5	51.9	51.1	51.9	54.1	54.1
25°	233.9	226.6	205.6	145.1	67.4	49.4	48.5	49.4	50.2	51.1	52.4
27.5°	247.7	235.2	211.2	120.6	48.5	45.9	46.8	47.2	47.2	48.5	48.9
30°	256.7	246.8	215.5	93.1	42.9	42.5	43.4	43.8	44.2	45.5	45.9
32.5°	265.3	261.8	209.9	63.1	40.4	39.5	39.1	39.5	41.2	42.5	42.1
35°	277.7	275.6	201.8	43.8	37.8	36.1	35.2	35.6	36.9	38.2	37.8
37.5°	292.8	294.9	182.0	38.2	35.2	33.1	31.3	31.3	31.8	33.1	33.5
40°	310.4	315.9	158.8	35.6	33.5	30.9	29.2	27.0	26.6	26.2	26.6
42.5°	342.6	349.0	132.6	33.9	30.9	27.9	25.3	22.8	20.6	19.3	19.3
45°	387.6	382.5	98.3	32.2	29.6	25.3	21.5	18.5	15.5	14.2	14.2
47.5°	449.9	432.3	67.4	30.5	27.5	22.3	18.0	14.2	11.6	10.3	10.3
50°	536.1	478.2	43.8	28.8	26.2	19.3	14.6	10.3	8.6	8.2	8.6
52.5°	617.7	525.0	34.8	26.6	23.6	16.7	11.2	8.6	7.7	7.3	7.3
55°	692.8	548.6	30.9	24.5	21.5	13.7	9.4	7.3	6.9	6.4	6.4
57.5°	756.4	556.8	26.6	21.5	17.2	10.7	7.7	6.4	5.6	5.2	5.2
60°	811.3	558.9	20.6	17.2	12.4	8.2	6.4	5.6	4.7	3.9	3.9
62.5°	855.1	543.9	14.6	12.0	8.6	6.4	5.6	3.9	2.6	1.7	1.3
65°	889.9	513.8	9.9	8.2	5.6	4.7	3.4	1.7	0.4	0.0	0.0
67.5°	849.1	445.6	7.7	6.0	3.9	3.0	1.7	0.4	0.0	0.0	0.0
70°	692.4	345.6	5.6	3.9	2.6	0.9	0.4	0.0	0.0	0.0	0.0
72.5°	471.3	222.8	4.3	2.6	1.3	0.4	0.0	0.0	0.0	0.0	0.0
75°	211.6	79.8	3.0	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	51.5	18.9	2.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.7	4.7	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.2	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	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)