

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: P677171

Luminaire Tested: **CCW-SA-1A-827-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677171
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-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

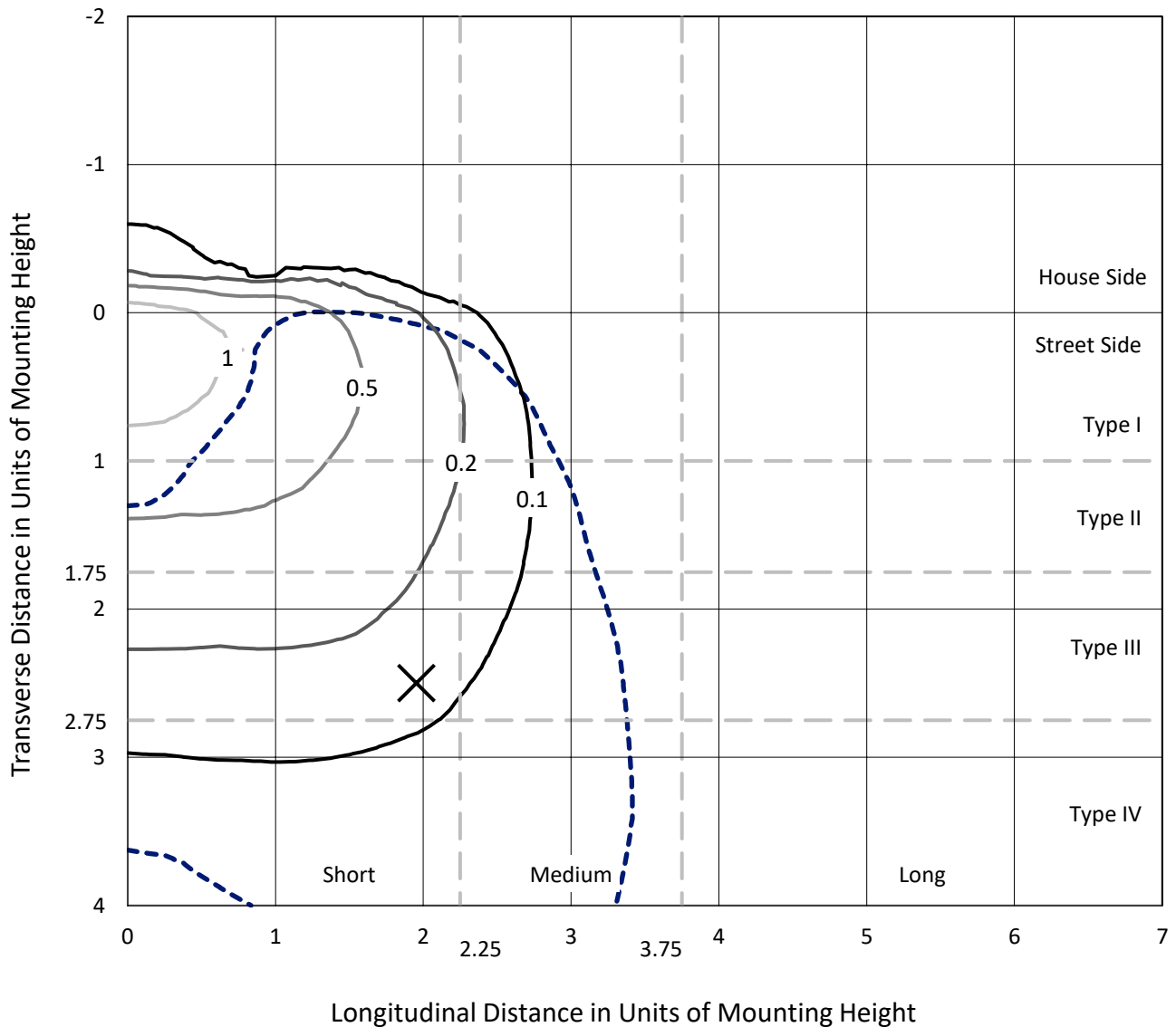
Lumens per Lamp: N/A
Luminaire Lumens: 1661.2 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 18
Input Voltage (V): 120
Input Current (A_{in}): 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

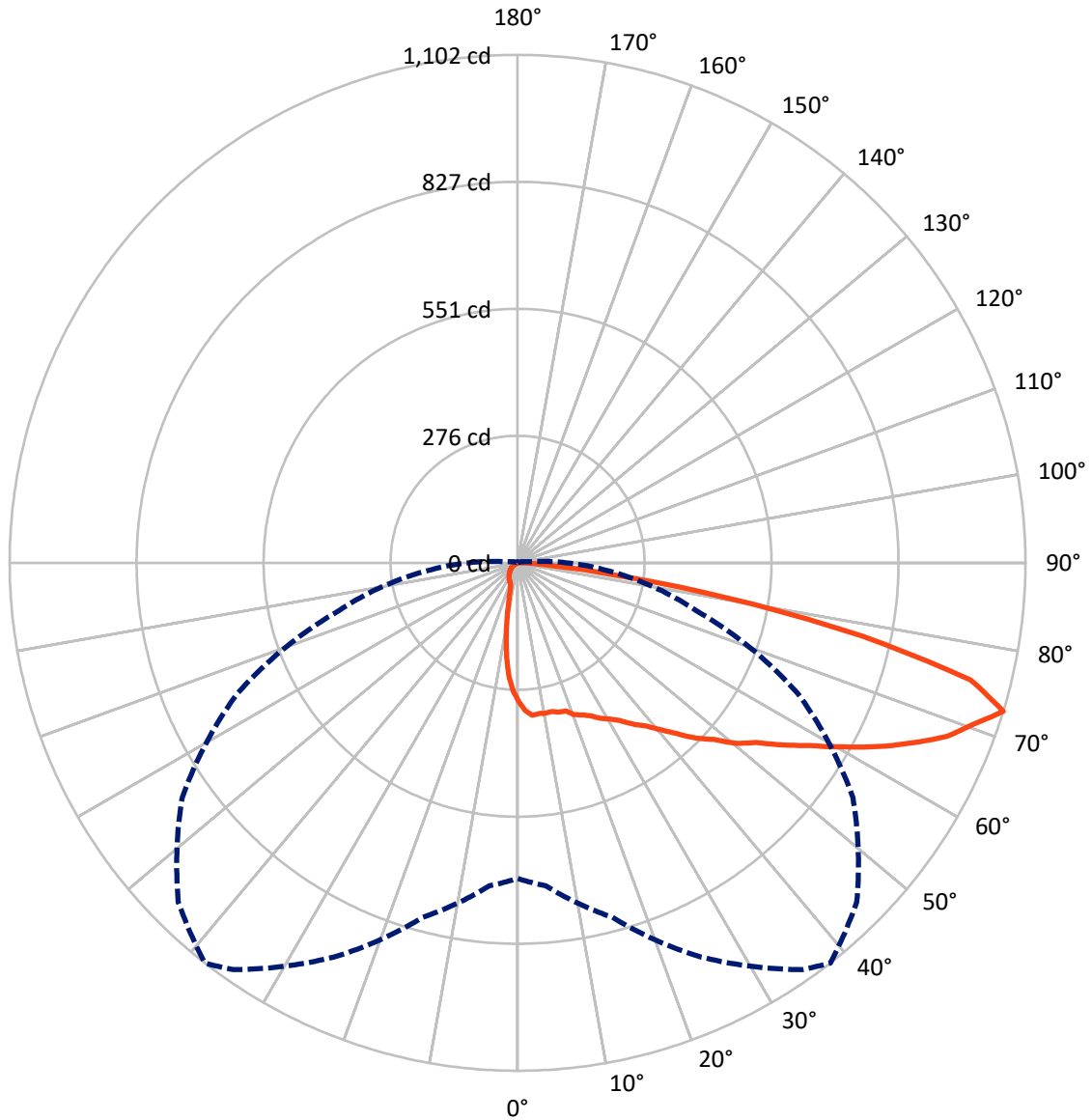
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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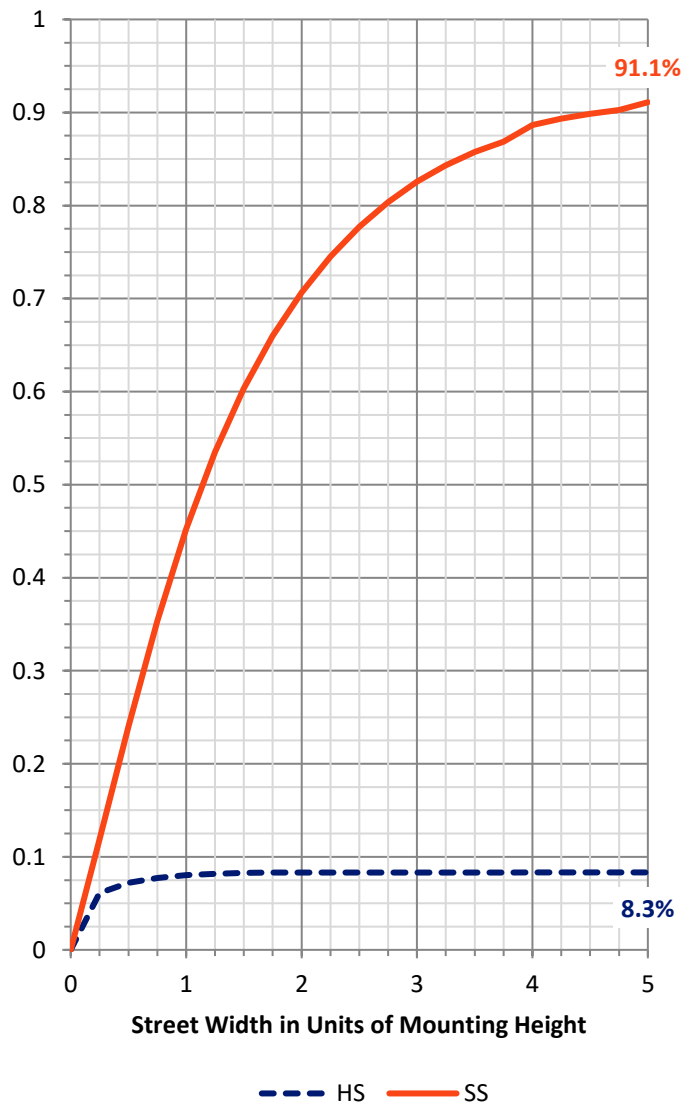
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	139.1	0.0	139.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	1522.1	0.0	1522.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	1661.2	0.0	1661.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	1.6
10°-20°	64.4	3.9
20°-30°	103.2	6.2
30°-40°	155.8	9.4
40°-50°	237.2	14.3
50°-60°	333.9	20.1
60°-70°	407.8	24.6
70°-80°	296.2	17.8
80°-90°	36.5	2.2
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°	1661.2	100.0
0°-180°	1661.2	100.0

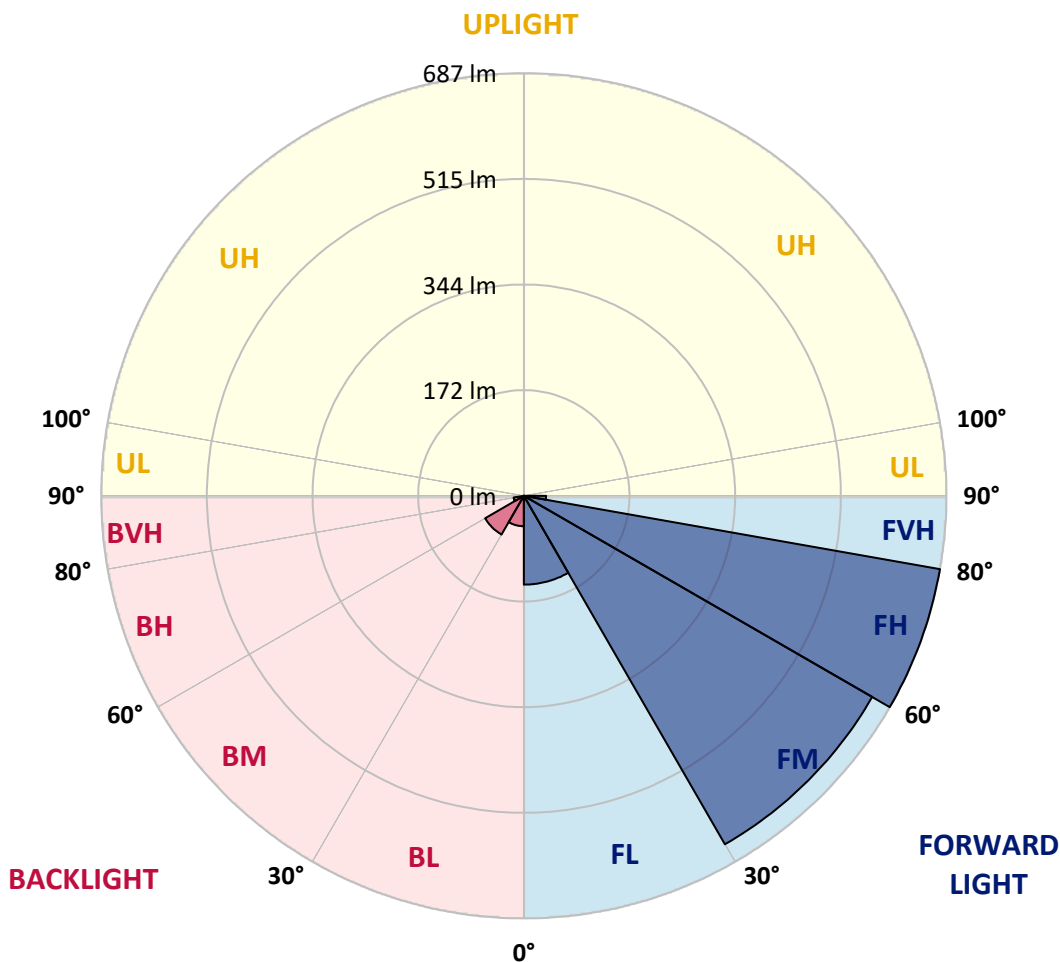


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	144.5	8.7			
FM (30°-60°)	654.2	39.4			
FH (60°-80°)	687.1	41.4			G1/1800
FVH (80°-90°)	36.3	2.2			G1/100
BL (0°-30°)	49.4	3.0	B0/110		
BM (30°-60°)	72.7	4.4	B0/220		
BH (60°-80°)	16.9	1.0	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	300.4	300.4	300.4	300.4	300.4	300.4	300.4	300.4	300.4	300.4	300.4
2.5°	330.0	330.0	333.1	330.0	328.9	321.5	321.8	317.9	314.1	308.6	303.5
5°	333.9	336.7	338.6	335.9	331.6	332.4	335.1	327.7	317.2	310.5	299.2
7.5°	332.4	338.2	336.7	335.1	332.4	330.4	326.5	323.4	318.3	312.1	298.9
10°	331.2	333.1	333.5	332.4	326.5	332.0	327.7	322.6	316.4	309.0	292.6
12.5°	326.9	326.9	330.4	327.7	328.5	331.2	329.2	328.1	321.5	315.2	300.8
15°	322.2	323.8	329.2	333.5	337.4	336.3	335.1	331.6	325.7	318.7	303.5
17.5°	323.4	324.2	332.8	340.5	338.6	337.8	344.1	336.7	330.8	323.0	305.9
20°	327.7	330.0	339.8	349.9	351.8	351.8	349.5	345.2	337.0	326.5	310.2
22.5°	332.0	332.8	348.7	361.6	363.5	358.5	360.4	347.9	340.2	334.3	314.4
25°	348.3	346.8	363.9	374.1	372.9	367.8	365.9	355.0	351.8	341.3	323.8
27.5°	370.5	363.9	380.7	386.9	380.7	382.2	376.8	365.1	358.5	352.2	328.1
30°	384.2	388.1	397.0	403.3	392.8	393.1	390.4	377.6	367.4	369.0	342.5
32.5°	405.2	408.0	414.6	417.3	409.1	408.3	405.6	395.5	388.1	386.5	362.0
35°	427.8	432.9	433.3	434.1	426.7	429.8	425.9	411.5	415.4	418.1	385.4
37.5°	450.0	445.4	453.2	456.7	448.5	448.5	449.6	439.9	446.9	455.1	418.5
40°	458.6	460.6	474.2	471.5	481.2	475.4	479.6	477.3	483.2	501.9	465.2
42.5°	467.6	469.9	488.2	493.3	505.0	506.9	513.2	513.5	530.7	561.5	510.0
45°	484.7	480.8	505.8	518.2	537.3	542.8	550.2	556.4	583.3	619.5	561.1
47.5°	500.3	494.8	523.3	548.2	571.6	572.8	593.0	599.7	631.6	672.9	611.7
50°	522.1	524.1	536.1	579.0	602.8	616.4	630.4	652.3	687.7	731.7	648.4
52.5°	544.7	542.8	563.0	605.1	642.5	647.6	679.1	703.7	742.3	775.4	664.7
55°	572.4	574.7	582.5	637.8	685.4	697.5	732.9	758.6	800.7	794.1	670.2
57.5°	600.0	597.7	615.2	674.5	739.1	748.1	795.3	810.5	838.9	806.6	656.5
60°	627.3	631.6	639.0	715.8	798.0	811.2	848.6	856.4	862.7	812.4	646.0
62.5°	658.5	648.4	671.4	759.4	851.0	878.6	908.3	877.5	872.0	801.9	621.9
65°	674.1	677.2	707.2	809.3	921.5	941.8	945.7	905.9	877.9	778.5	599.3
67.5°	698.2	702.5	740.7	860.3	994.0	1005.3	991.2	931.6	872.8	748.1	517.8
70°	701.4	711.9	785.5	913.7	1039.6	1049.3	1038.4	948.8	831.9	628.5	383.4
72.5°	685.0	703.7	796.4	944.1	1077.7	1102.3	1041.1	888.4	670.6	400.9	196.4
75°	517.4	533.0	729.0	898.9	1010.0	1015.8	914.1	678.0	381.8	136.8	50.3
77.5°	268.1	295.0	486.7	686.9	769.5	763.3	636.3	399.4	131.3	35.8	20.3
80°	153.9	160.5	212.7	385.7	483.9	460.2	351.8	172.2	57.7	17.9	13.2
82.5°	76.0	85.3	114.6	172.6	242.0	199.1	132.1	103.3	32.3	9.7	11.7
85°	16.4	17.1	58.4	82.6	98.2	64.7	45.2	86.9	11.7	5.8	11.3
87.5°	11.7	11.3	16.4	37.0	27.3	16.8	26.9	45.6	2.7	2.7	2.3
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°	300.4	300.4	300.4	300.4	300.4	300.4	300.4	300.4	300.4	300.4	300.4
2.5°	300.4	296.9	293.0	285.6	283.7	282.5	275.9	275.5	274.3	271.6	270.4
5°	292.2	286.4	279.0	271.2	265.0	253.7	240.0	233.0	224.4	224.8	222.1
7.5°	291.1	280.2	269.6	253.3	233.4	212.4	191.3	177.7	167.9	162.1	163.3
10°	285.6	277.4	260.3	229.9	197.9	166.0	139.1	118.8	107.2	98.2	100.9
12.5°	287.9	272.0	247.8	207.3	161.7	122.3	88.8	69.4	60.8	57.7	58.4
15°	286.4	272.0	240.4	182.7	127.0	83.0	57.7	51.4	49.9	49.9	49.1
17.5°	291.1	275.1	227.9	158.6	91.2	55.3	49.5	48.3	47.1	47.1	47.1
20°	297.7	276.6	219.4	131.7	64.3	48.7	46.4	45.6	45.2	45.2	44.8
22.5°	298.1	275.1	203.4	102.1	49.5	46.0	44.0	43.6	43.6	42.9	42.9
25°	300.4	276.6	186.2	76.8	46.0	43.3	41.7	41.3	41.7	41.3	40.9
27.5°	306.3	279.4	169.1	56.1	43.3	40.9	39.7	39.4	39.4	39.4	38.6
30°	313.7	279.4	150.0	46.4	40.9	38.6	37.4	37.0	36.6	36.6	36.6
32.5°	329.2	288.3	126.6	41.3	37.8	35.8	34.7	34.7	34.3	34.3	33.9
35°	348.7	294.6	102.9	38.2	35.1	33.1	32.0	32.0	31.6	31.6	31.2
37.5°	372.9	310.2	78.7	35.8	32.3	30.4	29.2	29.2	29.2	28.8	28.8
40°	407.2	326.1	58.4	32.7	29.6	27.7	26.9	26.5	26.1	26.1	25.3
42.5°	443.8	350.7	43.6	30.4	27.3	25.7	24.5	23.4	23.4	22.2	22.2
45°	483.5	372.1	35.5	27.7	24.9	23.0	21.8	21.0	19.9	19.1	19.1
47.5°	522.5	385.4	31.2	24.5	22.6	21.0	19.9	18.3	16.8	16.4	16.0
50°	554.1	389.3	27.7	22.2	20.7	19.1	17.5	15.6	14.0	13.2	12.9
52.5°	554.1	367.8	24.9	19.9	18.7	17.1	15.2	12.9	10.9	10.1	9.7
55°	554.1	333.9	22.2	18.3	16.8	15.6	12.9	10.5	8.6	7.4	7.0
57.5°	545.9	293.0	19.9	16.4	14.8	13.2	10.9	8.2	6.2	5.1	5.1
60°	523.3	250.1	17.1	14.4	12.9	10.9	8.6	5.8	3.9	2.7	2.7
62.5°	494.5	199.1	14.8	12.1	10.5	9.0	6.6	3.9	1.6	0.8	0.8
65°	444.2	146.9	12.9	10.1	8.2	6.6	4.3	1.6	0.0	0.0	0.0
67.5°	366.7	98.2	10.1	8.2	7.0	4.7	2.7	0.4	0.0	0.0	0.0
70°	257.9	55.7	7.8	5.8	5.1	3.1	0.8	0.0	0.0	0.0	0.0
72.5°	106.0	24.5	5.5	4.3	3.5	1.6	0.0	0.0	0.0	0.0	0.0
75°	28.8	10.9	3.5	2.3	1.9	0.4	0.0	0.0	0.0	0.0	0.0
77.5°	16.8	7.4	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.2	3.5	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.2	1.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	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)