

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: P675731

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675731
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
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL4 distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

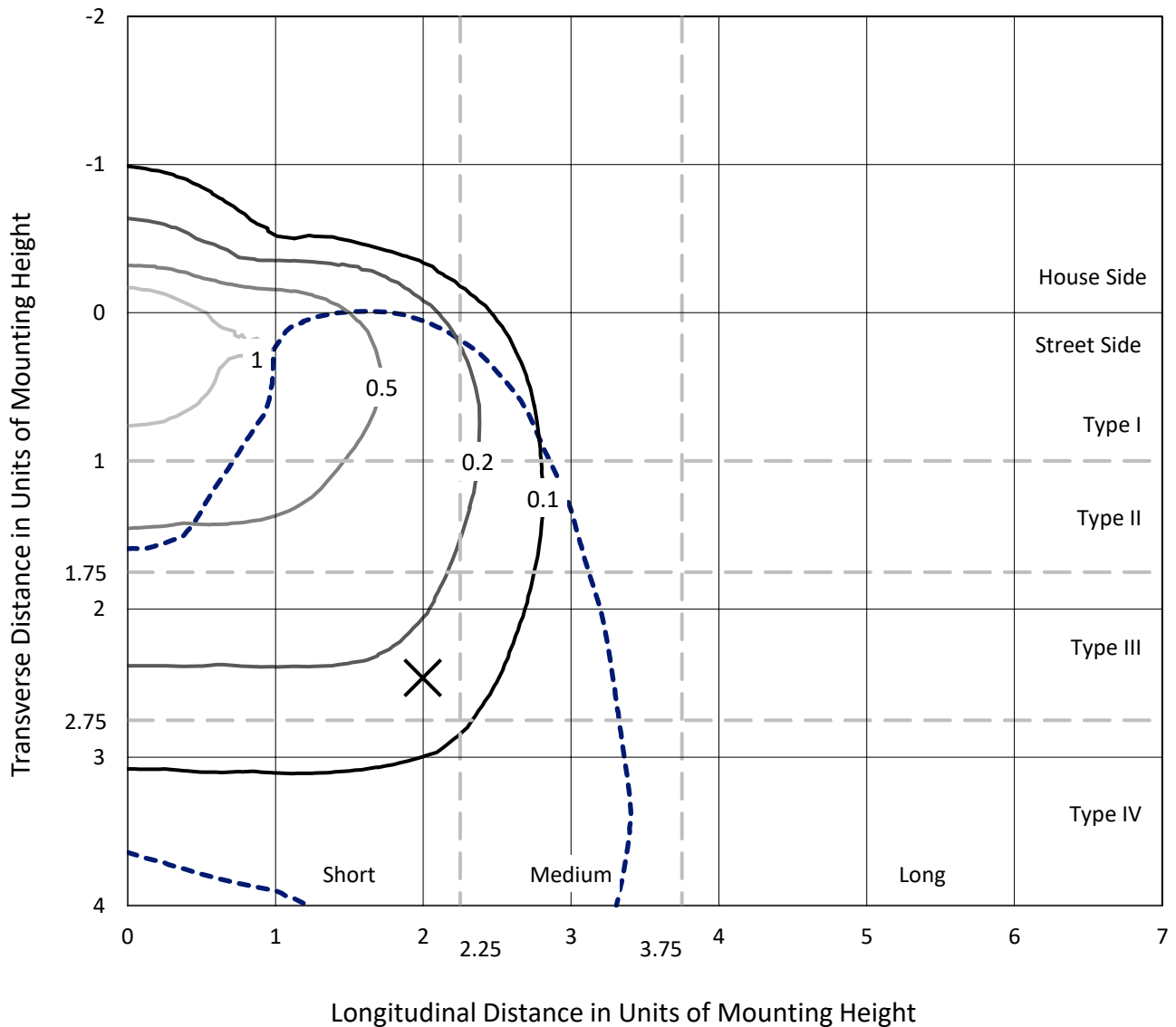
Lumens per Lamp: N/A
Luminaire Lumens: 1970.7 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

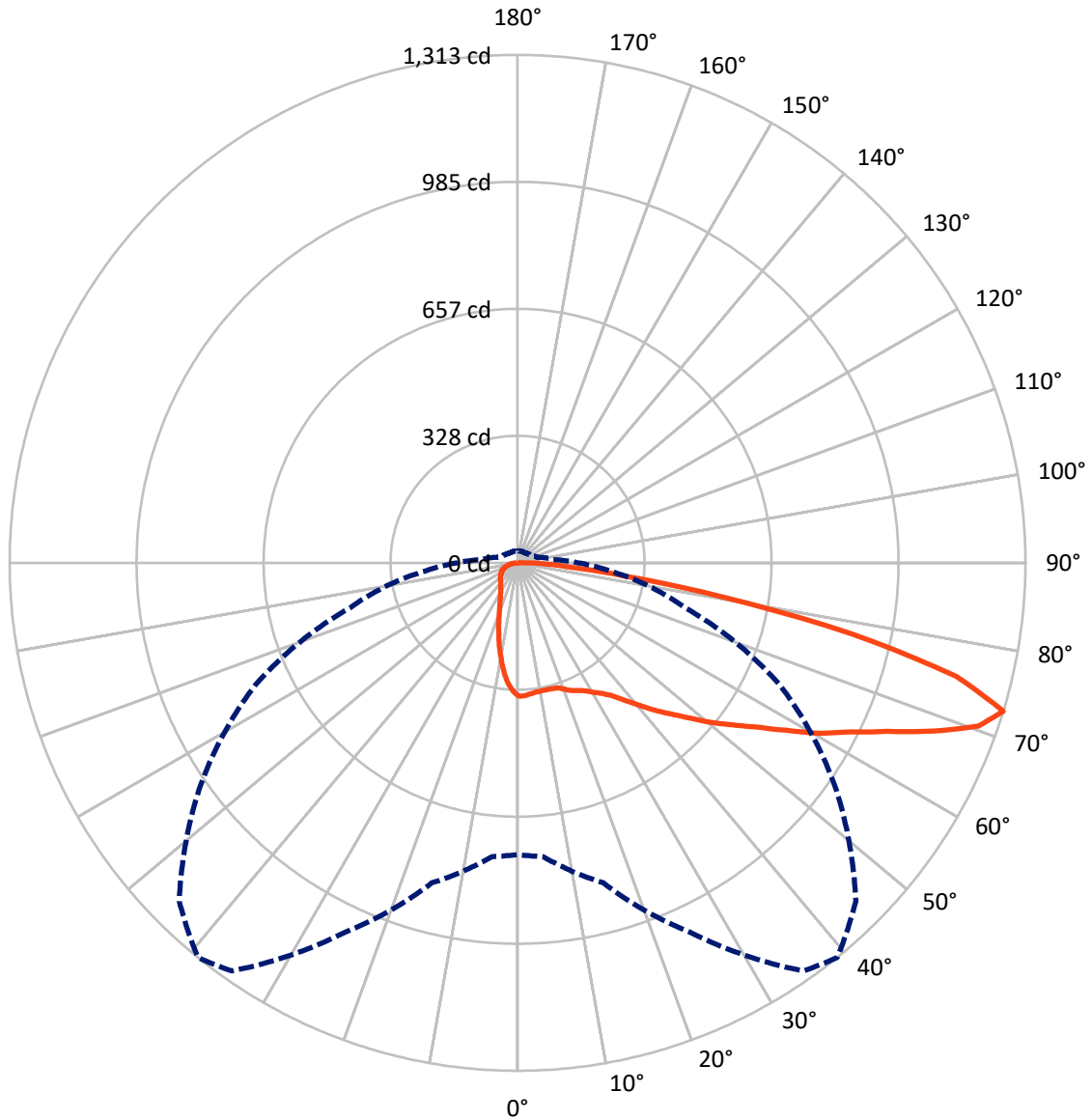
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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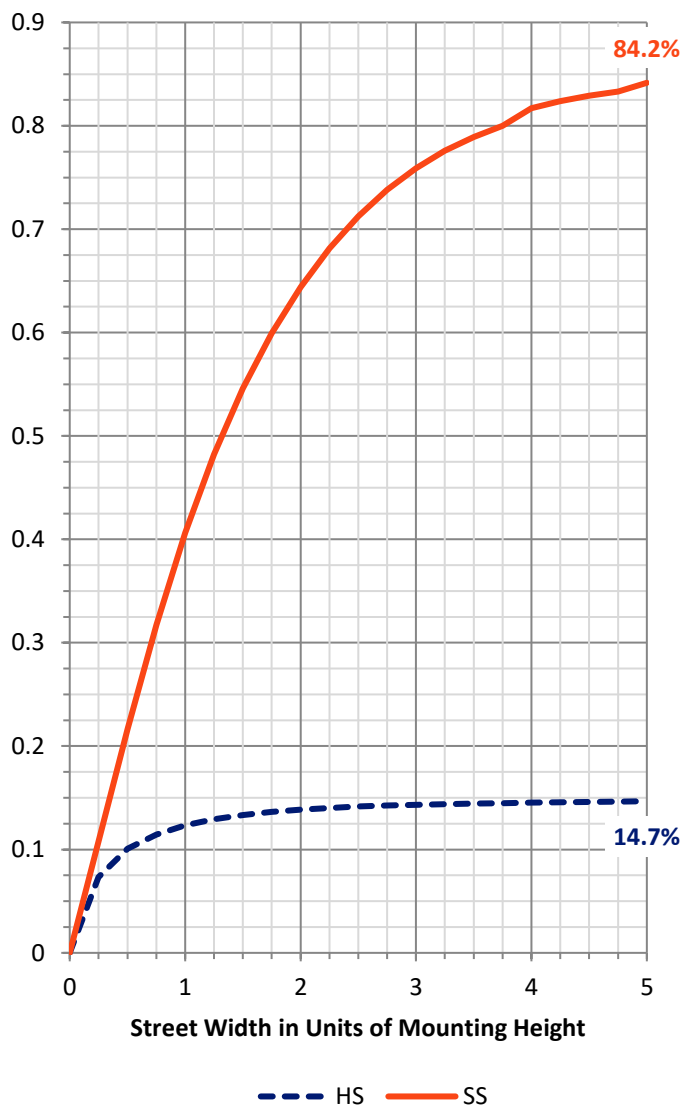
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	292.9	0.0	292.9
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	1677.8	0.0	1677.8
	% Fixture	85.1	0.0	85.1
Total	Lumens	1970.7	0.0	1970.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.5	1.5
10°-20°	77.8	3.9
20°-30°	118.5	6.0
30°-40°	173.4	8.8
40°-50°	265.4	13.5
50°-60°	389.3	19.8
60°-70°	496.5	25.2
70°-80°	358.7	18.2
80°-90°	60.5	3.1
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°	1970.7	100.0
0°-180°	1970.7	100.0

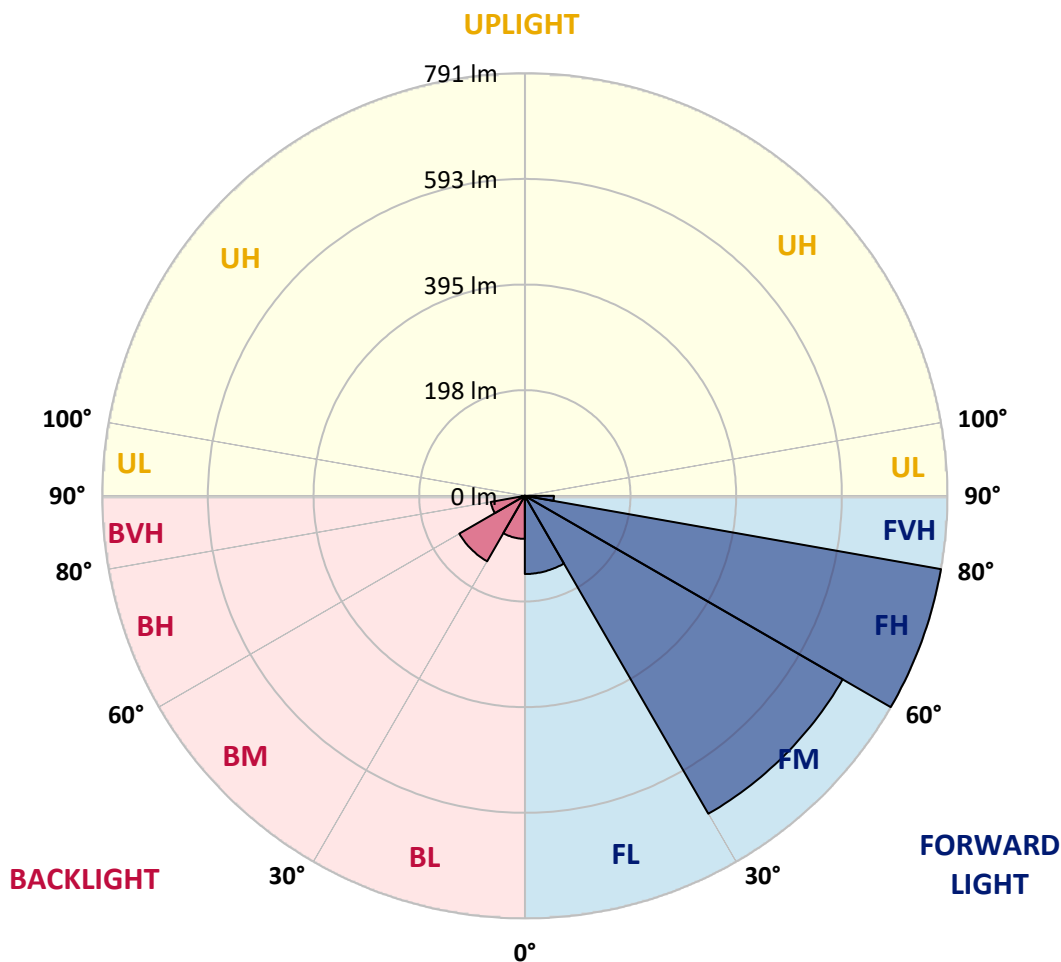


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	146.3	7.4			
FM (30°-60°)	686.6	34.8			
FH (60°-80°)	790.5	40.1			G1/1800
FVH (80°-90°)	54.4	2.8			G1/100
BL (0°-30°)	80.5	4.1	B0/110		
BM (30°-60°)	141.5	7.2	B0/220		
BH (60°-80°)	64.7	3.3	B0/110		G0/110
BVH (80°-90°)	6.1	0.3			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°	39°	45°	55°	65°	75°	85°
0°	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0
2.5°	350.1	350.9	349.4	347.9	347.2	344.2	347.2	345.7	344.2	344.2	344.2
5°	345.7	346.4	346.4	345.0	345.7	340.5	339.8	340.5	338.3	336.8	336.1
7.5°	339.0	340.5	343.5	342.7	339.8	337.6	338.3	337.6	333.9	331.6	325.7
10°	333.9	335.3	336.8	338.3	337.6	336.8	336.1	333.1	332.4	327.2	321.3
12.5°	328.7	328.7	329.4	335.3	336.1	336.1	331.6	331.6	329.4	328.7	319.8
15°	323.5	325.7	331.6	333.1	336.1	337.6	335.3	335.3	331.6	326.5	319.8
17.5°	325.0	328.7	334.6	338.3	339.8	339.8	342.7	340.5	335.3	332.4	325.7
20°	332.4	333.1	340.5	347.2	348.7	348.7	345.7	343.5	339.8	334.6	325.7
22.5°	336.8	342.0	350.9	354.6	359.0	359.0	355.3	350.1	345.0	339.8	330.2
25°	356.1	356.8	360.5	366.4	368.7	365.7	362.0	356.1	349.4	344.2	335.3
27.5°	369.4	373.1	377.5	380.5	376.8	374.6	371.6	364.9	359.8	355.3	342.7
30°	393.8	389.4	392.3	393.8	387.2	388.6	380.5	374.6	368.7	368.7	354.6
32.5°	408.6	412.3	409.4	408.6	403.4	402.7	397.5	390.9	387.2	391.6	372.4
35°	434.5	432.3	432.3	431.6	425.7	421.9	421.9	410.1	413.8	423.4	399.7
37.5°	447.9	447.1	451.6	455.3	449.3	451.6	449.3	444.2	445.6	462.7	433.8
40°	461.2	466.4	475.2	476.7	480.4	483.4	481.9	481.2	487.1	514.5	479.7
42.5°	473.8	478.2	491.5	503.4	512.3	521.9	522.6	522.6	541.9	581.1	535.2
45°	490.1	493.8	512.3	536.0	550.8	557.4	563.3	570.0	595.9	642.5	594.4
47.5°	512.3	515.2	537.4	567.0	595.9	599.6	611.5	618.9	658.1	705.5	655.1
50°	544.1	541.9	559.6	602.6	630.7	648.5	665.5	678.8	717.3	769.1	702.5
52.5°	570.0	570.0	583.3	640.3	678.8	695.8	713.6	732.1	776.5	832.8	741.0
55°	614.4	610.0	618.1	677.3	732.9	749.1	783.2	798.7	841.7	880.2	773.6
57.5°	644.8	647.0	656.6	726.2	796.5	816.5	850.6	861.7	899.4	929.8	797.3
60°	684.7	677.3	698.1	780.2	866.8	895.0	923.1	929.8	957.9	961.6	808.4
62.5°	723.2	721.8	739.5	834.3	942.4	962.3	991.2	998.6	1010.5	986.8	792.8
65°	746.9	756.5	789.9	893.5	1028.2	1050.4	1079.3	1064.5	1051.2	964.6	716.6
67.5°	779.5	783.9	835.0	957.9	1127.4	1160.7	1185.9	1127.4	1028.2	873.5	603.3
70°	786.9	798.7	865.4	1025.3	1229.6	1263.6	1265.1	1106.0	944.6	710.7	437.5
72.5°	754.3	762.5	856.5	1053.4	1288.1	1313.2	1237.0	1000.1	748.4	447.9	238.4
75°	634.4	657.4	745.4	966.8	1180.7	1171.1	1048.2	763.2	449.3	198.4	100.7
77.5°	441.9	442.7	534.5	703.2	883.9	881.7	747.7	442.7	192.5	79.9	59.2
80°	196.2	210.2	265.8	379.0	536.7	536.7	436.0	219.9	96.2	51.8	40.7
82.5°	115.5	119.9	142.1	176.9	261.3	275.4	208.8	146.6	65.9	32.6	25.2
85°	85.1	92.5	105.9	106.6	123.6	125.8	115.5	127.3	45.2	17.8	20.7
87.5°	63.7	68.1	84.4	70.3	65.9	62.2	71.1	130.3	17.0	8.9	6.7
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°	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0
2.5°	341.3	341.3	339.8	336.8	336.8	330.9	332.4	333.9	330.2	330.2	330.9
5°	336.1	333.1	329.4	325.0	322.0	313.9	312.4	307.2	306.5	305.0	302.8
7.5°	325.7	321.3	314.6	307.9	298.3	290.9	282.0	274.6	271.7	269.5	268.7
10°	316.1	315.4	304.2	290.9	276.1	262.1	248.7	239.1	233.2	229.5	228.7
12.5°	316.1	310.2	294.6	276.1	254.7	233.9	216.9	203.6	195.4	189.5	187.3
15°	314.6	308.7	288.0	259.8	235.4	207.3	183.6	169.5	157.7	151.8	152.5
17.5°	316.1	307.2	278.3	248.0	213.9	183.6	155.5	138.4	126.6	122.1	121.4
20°	316.8	305.7	270.9	231.7	191.7	157.7	131.0	114.7	105.9	102.9	102.9
22.5°	315.4	301.3	259.8	212.5	172.5	136.2	114.0	99.9	94.0	90.3	91.8
25°	322.0	300.5	249.5	196.2	150.3	118.4	101.4	91.1	87.4	85.1	85.9
27.5°	323.5	300.5	241.3	177.7	131.0	105.1	91.8	85.1	82.2	80.7	79.9
30°	329.4	302.0	231.7	159.2	115.5	94.8	84.4	80.7	78.5	77.7	77.7
32.5°	345.7	306.5	221.3	143.6	102.2	85.9	79.2	76.2	74.8	74.0	74.8
35°	364.9	318.3	210.2	127.3	92.5	79.9	74.8	72.5	71.8	71.8	71.8
37.5°	394.6	336.1	200.6	114.0	84.4	74.0	70.3	69.6	68.8	69.6	69.6
40°	428.6	355.3	191.7	103.6	78.5	70.3	66.6	66.6	65.9	66.6	67.4
42.5°	467.8	379.0	182.8	93.3	73.3	67.4	64.4	63.7	62.9	64.4	65.1
45°	521.9	411.6	176.9	87.4	69.6	64.4	61.4	61.4	60.7	60.7	62.2
47.5°	567.0	442.7	176.9	81.4	67.4	62.2	59.2	59.2	57.7	58.5	58.5
50°	604.8	469.3	180.6	79.9	64.4	60.0	57.7	56.3	55.5	55.5	55.5
52.5°	630.0	485.6	183.6	78.5	62.9	57.0	55.5	54.8	53.3	52.6	53.3
55°	655.1	496.7	184.3	78.5	60.7	54.0	52.6	52.6	51.1	50.3	50.3
57.5°	664.8	492.3	174.0	77.0	59.2	51.8	50.3	49.6	48.9	48.1	48.1
60°	660.3	476.0	151.0	73.3	57.7	50.3	47.4	47.4	47.4	45.9	46.6
62.5°	630.0	420.5	121.4	67.4	55.5	47.4	44.4	45.9	45.9	45.2	45.2
65°	550.0	347.2	98.5	62.2	52.6	45.2	42.2	44.4	45.2	44.4	43.7
67.5°	439.7	267.2	81.4	56.3	48.9	41.5	39.2	41.5	42.2	41.5	41.5
70°	302.0	172.5	65.9	50.3	43.7	37.8	35.5	37.0	37.0	37.8	37.8
72.5°	156.2	93.3	54.0	42.9	37.8	34.1	31.8	31.8	31.1	31.1	31.1
75°	77.7	63.7	45.2	36.3	31.8	28.9	27.4	25.9	25.9	25.9	25.9
77.5°	54.0	48.9	37.0	28.9	25.9	23.7	23.7	21.5	21.5	21.5	21.5
80°	40.7	38.5	28.1	22.2	20.0	18.5	18.5	17.8	17.8	17.0	17.0
82.5°	28.9	31.1	21.5	16.3	14.8	14.1	14.1	13.3	13.3	11.8	11.8
85°	22.9	25.9	16.3	11.8	11.1	9.6	9.6	8.9	8.9	8.1	7.4
87.5°	6.7	14.1	6.7	4.4	4.4	4.4	4.4	3.7	3.7	3.0	3.0
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)