

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: P472237

Luminaire Tested: **CCW-VA-1-827-U-T2**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472237
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-1-827-U-T2
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T2 DISTRIBUTION LENS
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2451.3 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

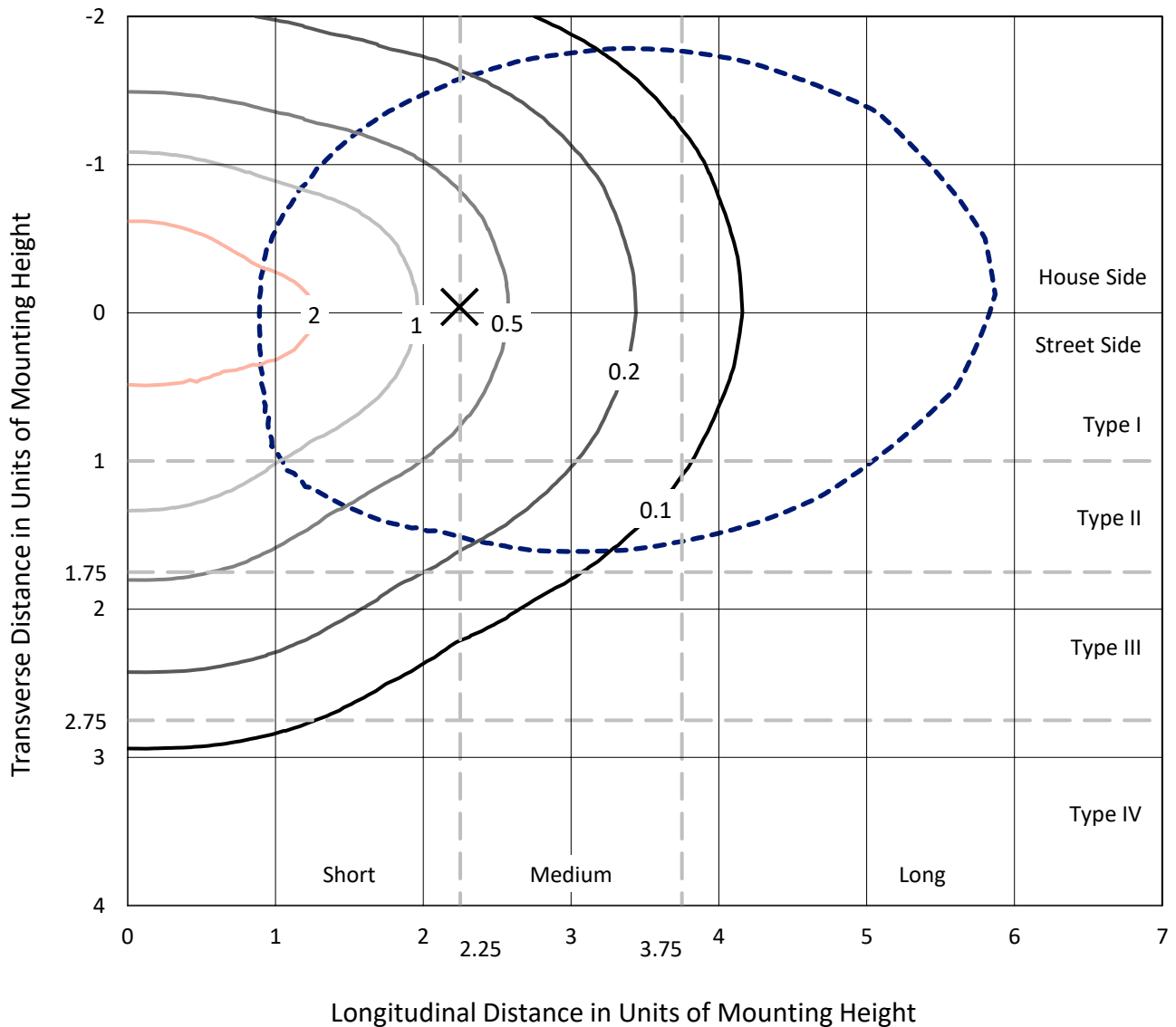
Input Watts (W): 29.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

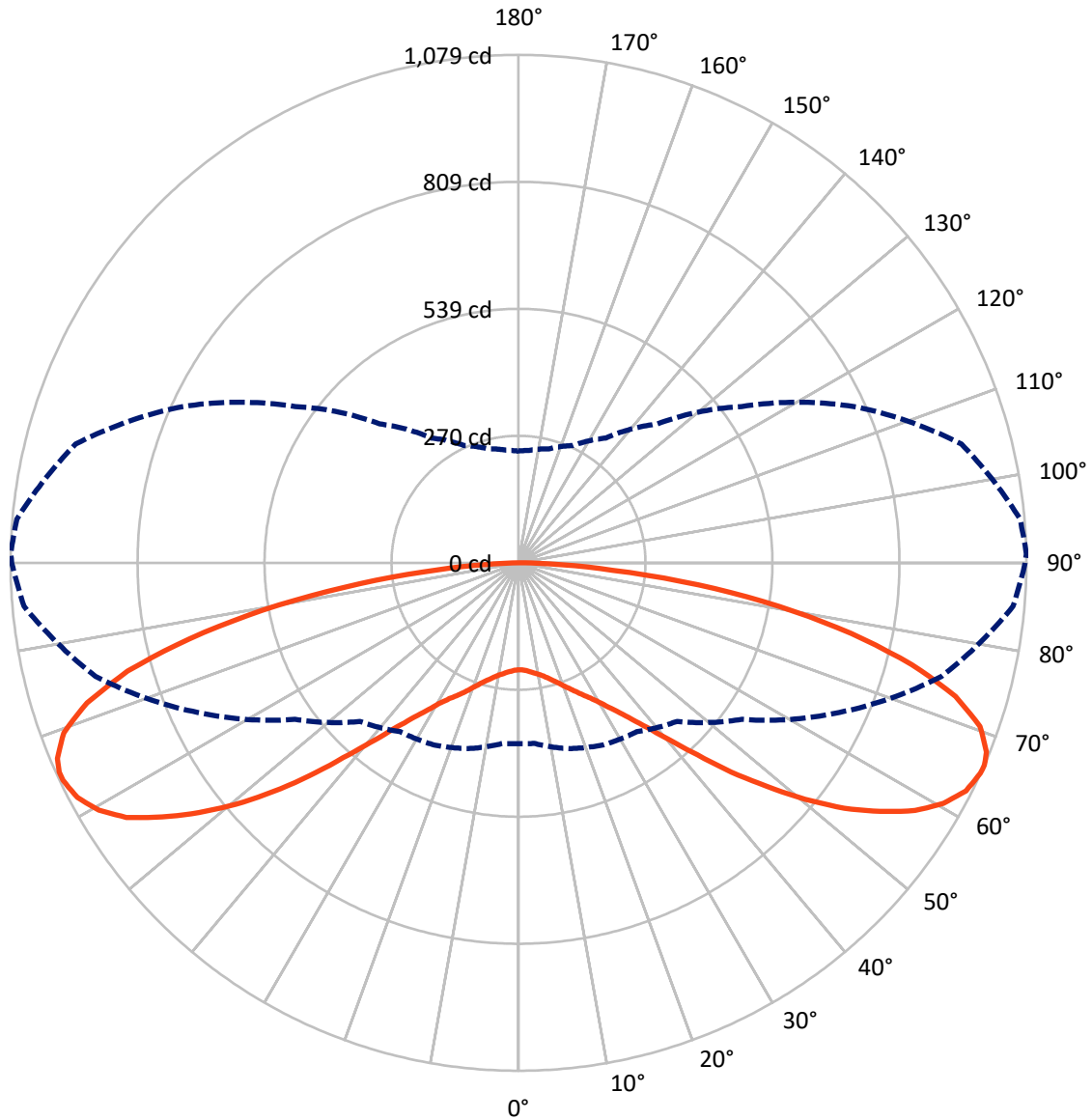
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 91-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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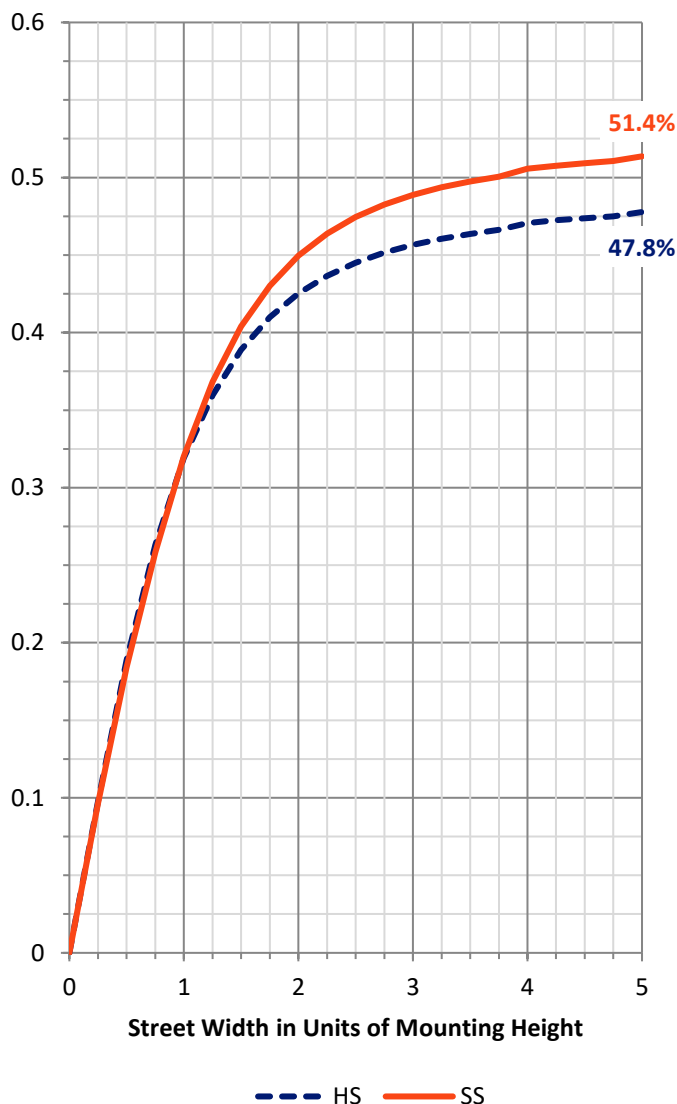
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1183.1	0.0	1183.1
	% Fixture	48.3	0.0	48.3
Street Side	Lumens	1268.2	0.0	1268.2
	% Fixture	51.7	0.0	51.7
Total	Lumens	2451.3	0.0	2451.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.4	0.9
10°-20°	73.2	3.0
20°-30°	141.5	5.8
30°-40°	232.2	9.5
40°-50°	367.8	15.0
50°-60°	507.2	20.7
60°-70°	569.5	23.2
70°-80°	425.7	17.4
80°-90°	111.8	4.6
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°	2451.3	100.0
0°-180°	2451.3	100.0

Coefficient of Utilization



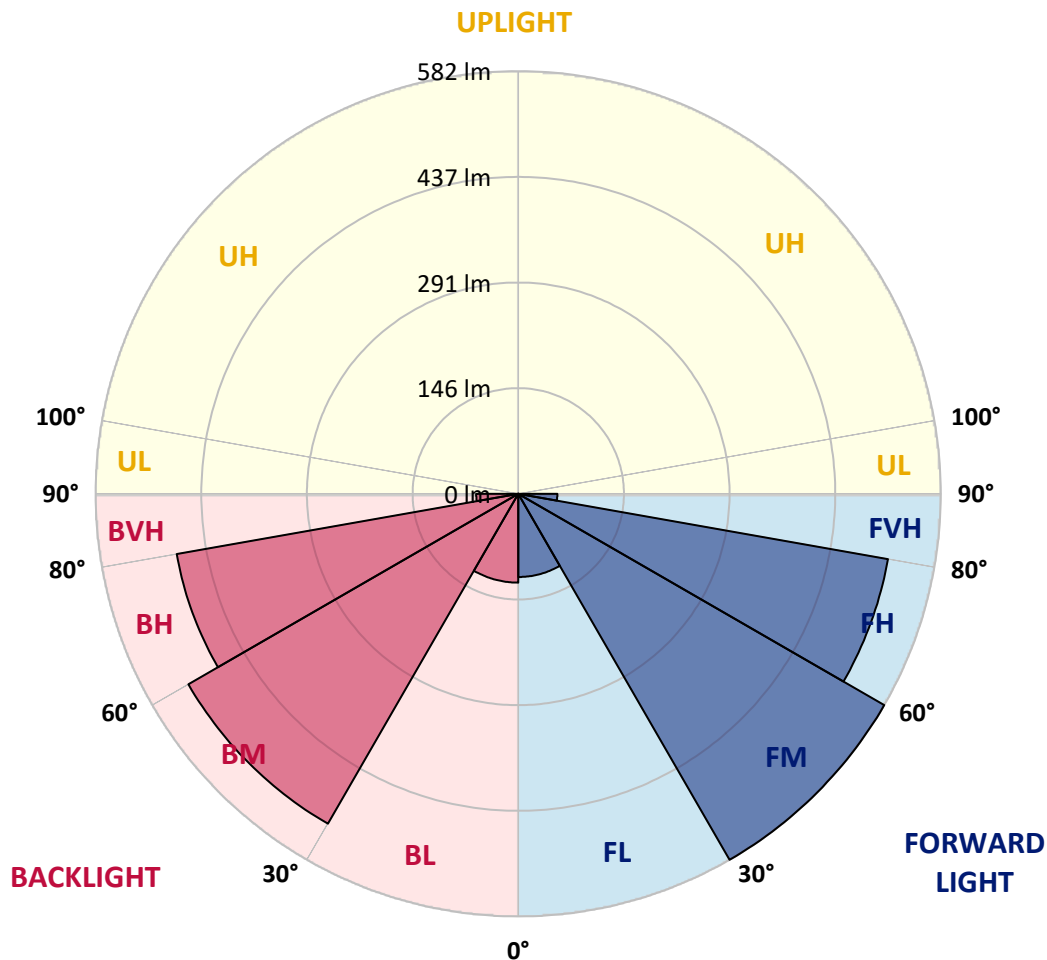
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	114.6	4.7			
FM (30°-60°)	582.4	23.8			
FH (60°-80°)	517.3	21.1			G0/660
FVH (80°-90°)	53.9	2.2			G1/100
BL (0°-30°)	122.4	5.0	B1/500		
BM (30°-60°)	524.9	21.4	B1/1000		
BH (60°-80°)	477.9	19.5	B1/500		G1/500
BVH (80°-90°)	58.0	2.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1
2.5°	228.0	228.0	228.0	228.0	228.9	228.9	228.9	228.9	228.9	228.0	228.0
5°	229.7	229.7	229.7	229.7	230.6	230.6	230.6	230.6	231.5	231.5	231.5
7.5°	231.5	231.5	232.3	232.3	233.2	233.2	234.1	234.1	234.9	235.8	235.8
10°	234.9	234.9	235.8	235.8	237.5	238.4	239.3	239.3	241.0	241.0	241.0
12.5°	239.3	240.1	241.0	241.9	243.6	244.5	245.3	246.2	247.1	247.9	247.9
15°	246.2	245.3	247.1	248.8	249.7	251.4	252.3	253.1	254.9	256.6	256.6
17.5°	251.4	252.3	253.1	254.9	256.6	259.2	261.0	262.7	264.4	266.2	266.2
20°	258.4	257.5	261.0	263.6	265.3	268.8	271.4	274.8	276.6	278.3	279.2
22.5°	264.4	265.3	267.0	270.5	274.0	279.2	284.4	287.0	289.6	291.3	293.9
25°	272.2	273.1	275.7	279.2	284.4	290.4	296.5	300.0	302.6	306.0	308.6
27.5°	280.0	280.0	284.4	289.6	295.6	303.4	310.4	313.8	318.2	322.5	324.2
30°	288.7	288.7	293.0	300.0	308.6	317.3	323.4	330.3	336.4	340.7	344.2
32.5°	301.7	301.7	306.9	313.8	323.4	333.8	342.4	349.4	357.2	365.0	371.9
35°	316.4	317.3	324.2	332.9	344.2	357.2	365.0	374.5	383.2	396.2	403.1
37.5°	339.8	340.7	348.5	359.8	371.1	384.9	397.9	409.2	422.2	436.9	442.1
40°	374.5	377.1	384.9	390.1	400.5	410.9	430.0	449.1	471.6	491.6	495.0
42.5°	436.9	434.3	429.1	427.4	430.0	441.3	462.1	491.6	531.4	556.6	556.6
45°	461.2	461.2	462.1	460.4	458.6	466.4	490.7	537.5	593.9	628.5	635.5
47.5°	465.6	466.4	474.2	481.2	482.9	491.6	521.0	582.6	658.0	709.2	713.5
50°	465.6	467.3	477.7	489.8	498.5	510.6	547.0	622.5	721.3	780.3	791.5
52.5°	463.8	465.6	476.8	491.6	505.4	522.8	569.6	664.1	777.7	857.4	862.6
55°	459.5	461.2	475.1	490.7	506.3	529.7	587.8	699.6	832.3	921.6	931.1
57.5°	454.3	456.9	471.6	488.1	502.8	531.4	599.9	727.4	876.5	978.8	996.1
60°	443.9	448.2	464.7	481.2	495.0	525.4	606.0	749.0	909.4	1020.4	1037.7
62.5°	423.1	427.4	445.6	463.8	477.7	510.6	602.5	759.4	928.5	1046.4	1064.6
65°	397.1	398.8	418.7	437.8	451.7	486.4	587.8	757.7	932.8	1055.1	1075.9
66°	384.1	384.9	408.3	426.5	437.8	476.0	579.1	751.6	930.2	1054.2	1075.9
67.5°	360.7	365.0	384.9	404.0	417.0	452.5	558.3	737.8	919.8	1045.5	1068.1
70°	319.9	323.4	339.8	358.9	372.8	406.6	513.2	697.0	881.7	1010.0	1036.0
72.5°	275.7	278.3	295.6	309.5	318.2	354.6	458.6	630.3	814.9	943.2	968.4
75°	228.9	230.6	246.2	255.8	263.6	295.6	385.8	544.4	710.0	834.9	867.8
77.5°	180.3	181.2	194.2	202.9	202.9	230.6	306.0	441.3	582.6	697.9	722.2
80°	132.6	131.8	139.6	143.9	146.5	164.7	220.2	324.2	443.9	534.0	557.4
82.5°	86.7	85.8	91.0	92.8	92.8	104.0	138.7	205.5	291.3	362.4	376.3
85°	45.9	47.7	46.8	46.8	46.8	51.2	69.4	107.5	155.2	194.2	203.7
87.5°	7.8	7.8	7.8	8.7	10.4	13.9	18.2	30.3	44.2	59.8	67.6
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):

	91°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1
2.5°	228.0	228.9	228.9	228.9	228.9	228.9	228.9	228.9	228.9	228.9	228.9
5°	231.5	231.5	231.5	232.3	232.3	232.3	232.3	232.3	232.3	232.3	232.3
7.5°	235.8	235.8	236.7	236.7	236.7	237.5	237.5	236.7	236.7	236.7	236.7
10°	241.0	241.0	241.9	242.7	242.7	243.6	243.6	242.7	242.7	241.9	241.9
12.5°	247.9	248.8	249.7	250.5	251.4	251.4	250.5	249.7	248.8	247.9	247.9
15°	256.6	257.5	258.4	260.1	260.1	260.1	259.2	258.4	256.6	255.8	256.6
17.5°	267.0	267.9	269.6	270.5	271.4	270.5	270.5	269.6	269.6	268.8	268.8
20°	280.0	280.9	283.5	284.4	284.4	285.2	287.8	289.6	292.2	293.0	293.0
22.5°	293.0	294.8	297.4	300.8	302.6	306.0	306.9	308.6	307.8	305.2	305.2
25°	308.6	310.4	315.6	319.9	323.4	325.1	323.4	320.8	316.4	313.0	312.1
27.5°	325.1	327.7	335.5	341.6	343.3	341.6	334.6	328.6	323.4	319.0	317.3
30°	345.9	350.2	358.9	362.4	361.5	354.6	344.2	336.4	328.6	323.4	322.5
32.5°	371.9	376.3	384.1	384.9	379.7	366.7	352.8	342.4	332.9	326.8	326.0
35°	403.1	407.5	411.8	409.2	394.5	378.0	360.7	345.9	336.4	329.4	329.4
37.5°	443.0	445.6	445.6	432.6	410.1	388.4	366.7	349.4	339.0	332.0	331.2
40°	495.0	494.2	482.0	456.9	427.4	397.9	371.1	352.8	339.8	332.9	332.0
42.5°	557.4	551.4	525.4	484.6	443.9	406.6	376.3	353.7	339.0	332.0	331.2
45°	633.7	623.3	576.5	516.7	461.2	414.4	378.9	352.8	336.4	328.6	327.7
47.5°	709.2	703.1	638.9	550.5	478.6	423.1	380.6	350.2	331.2	319.9	319.9
50°	788.9	774.2	701.4	591.3	496.8	429.1	380.6	345.9	322.5	310.4	308.6
52.5°	866.1	851.3	764.7	632.0	516.7	435.2	378.9	339.8	314.7	301.7	300.0
55°	932.0	919.8	826.2	678.0	537.5	439.5	376.3	332.9	306.9	294.8	293.0
57.5°	992.7	980.5	880.0	717.0	557.4	442.1	370.2	324.2	297.4	285.2	284.4
60°	1036.9	1027.3	925.9	753.4	573.9	442.1	361.5	313.8	287.0	274.8	274.0
62.5°	1066.3	1056.8	958.8	777.7	584.3	436.1	348.5	300.0	274.0	262.7	260.1
65°	1077.6	1068.9	973.6	787.2	582.6	423.9	331.2	282.6	257.5	246.2	244.5
66°	1078.5	1068.9	973.6	785.5	578.3	417.0	323.4	274.8	250.5	239.3	237.5
67.5°	1071.6	1062.9	967.5	776.8	566.1	404.0	307.8	261.8	237.5	226.3	225.4
70°	1039.5	1032.5	934.6	743.8	537.5	375.4	281.8	236.7	213.3	205.5	202.9
72.5°	970.1	962.3	868.7	682.3	490.7	336.4	248.8	207.2	188.1	178.6	177.7
75°	862.6	859.1	768.1	600.8	423.1	289.6	210.7	175.1	159.5	152.6	152.6
77.5°	722.2	715.2	638.1	496.8	347.6	234.1	169.1	142.2	130.0	124.0	124.8
80°	561.8	556.6	491.6	372.8	262.7	176.0	126.6	108.4	99.7	96.2	94.5
82.5°	384.9	371.1	327.7	247.1	170.8	118.8	87.6	75.4	71.1	70.2	69.4
85°	200.3	205.5	172.5	130.9	92.8	65.9	52.9	48.5	46.8	47.7	47.7
87.5°	65.9	67.6	52.0	39.9	30.3	23.4	19.9	19.1	16.5	18.2	19.1
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)