

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: P472141

Luminaire Tested: **CCW-VA-1-727-U-T4W**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472141
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-1-727-U-T4W
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS
Light Source: 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2943 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

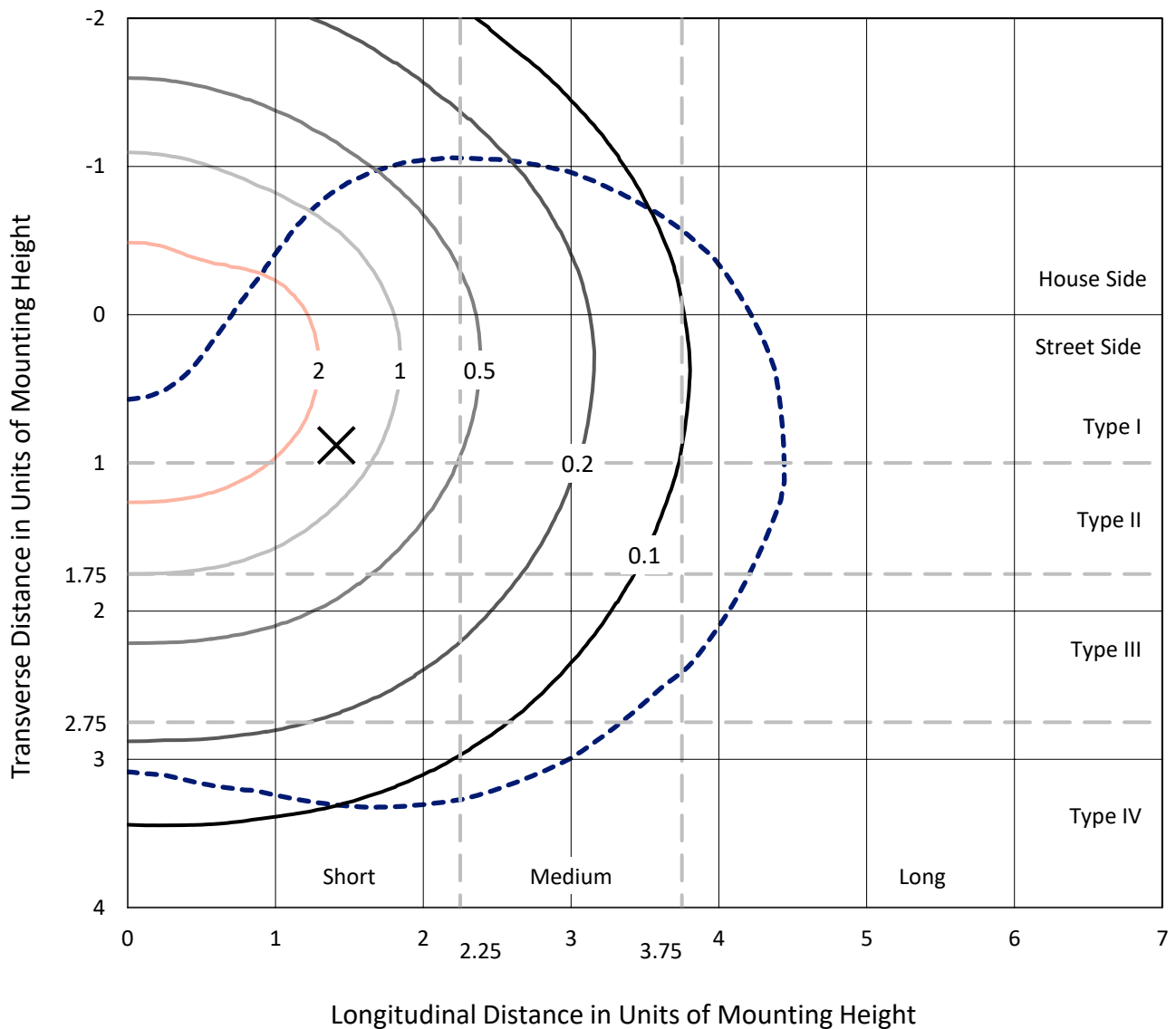
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

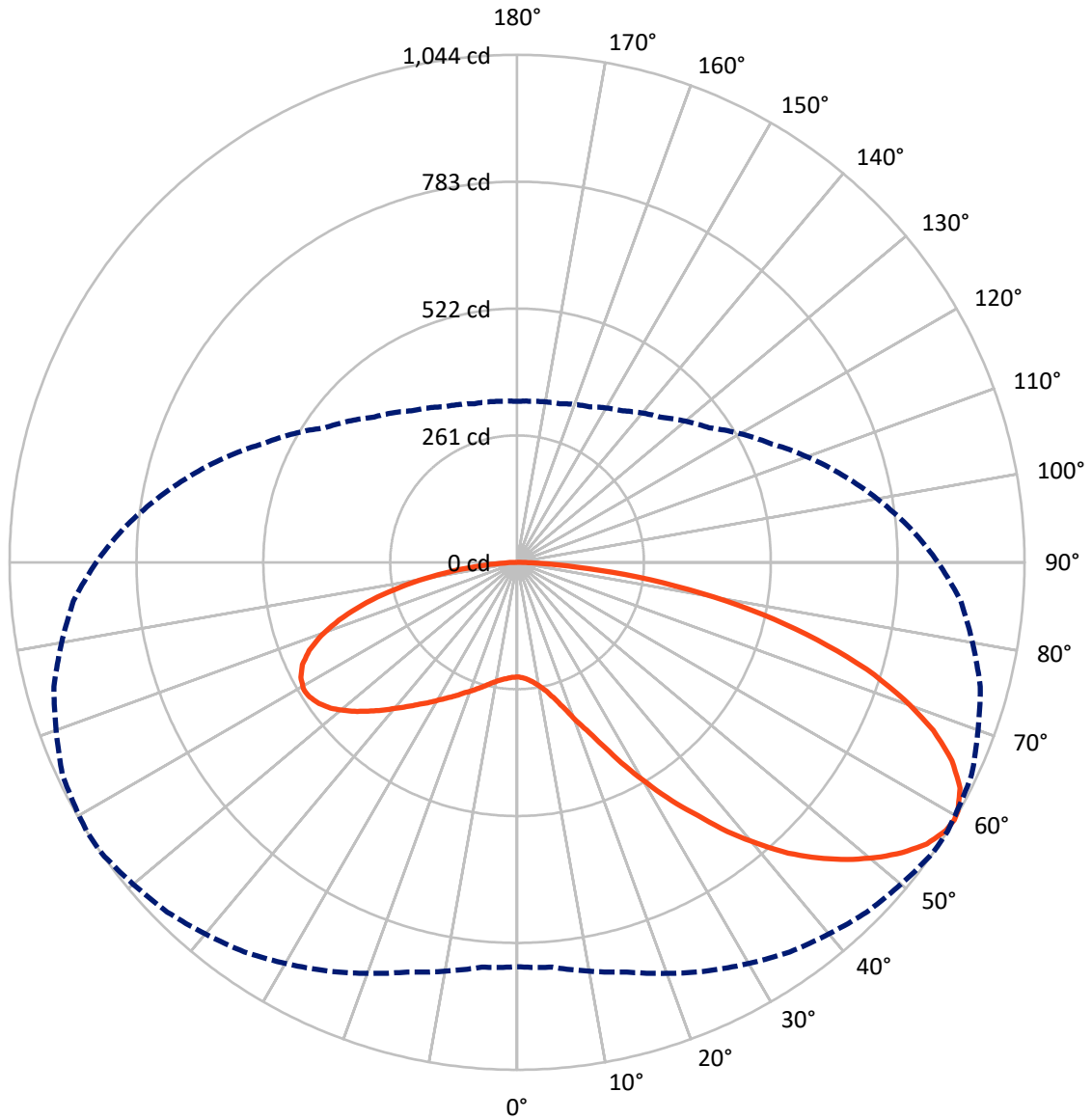
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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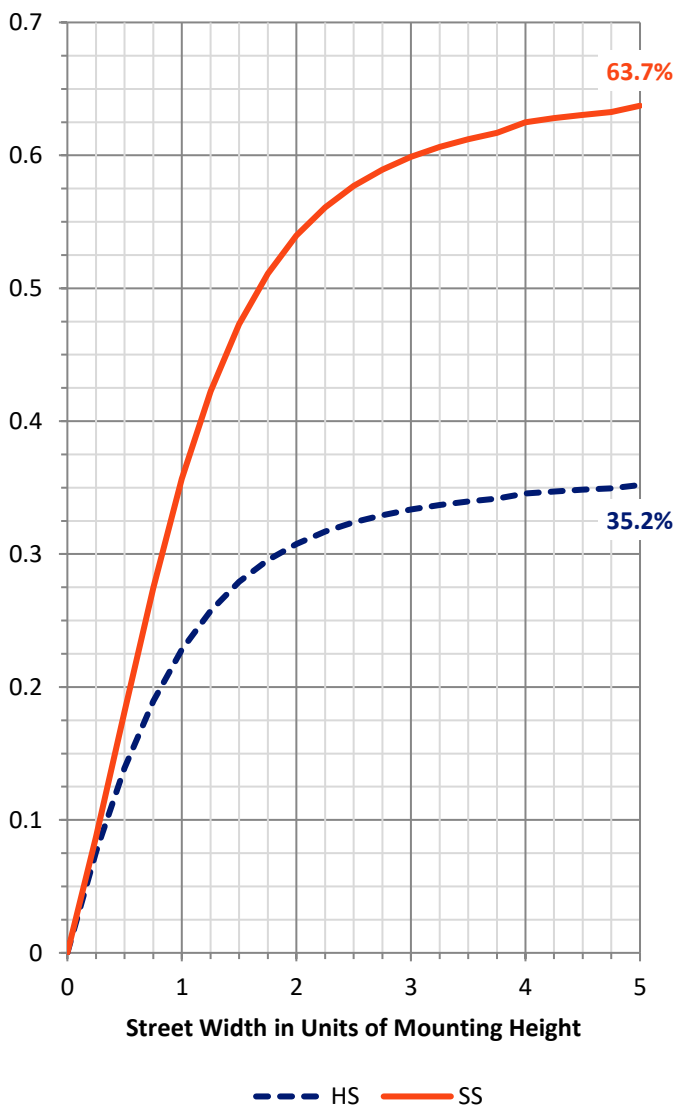
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1049.6	0.0	1049.6
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	1893.4	0.0	1893.4
	% Fixture	64.3	0.0	64.3
Total	Lumens	2943.0	0.0	2943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.4	0.8
10°-20°	79.8	2.7
20°-30°	168.5	5.7
30°-40°	310.1	10.5
40°-50°	483.3	16.4
50°-60°	635.1	21.6
60°-70°	665.5	22.6
70°-80°	461.4	15.7
80°-90°	115.9	3.9
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°	2943.0	100.0
0°-180°	2943.0	100.0

Coefficient of Utilization

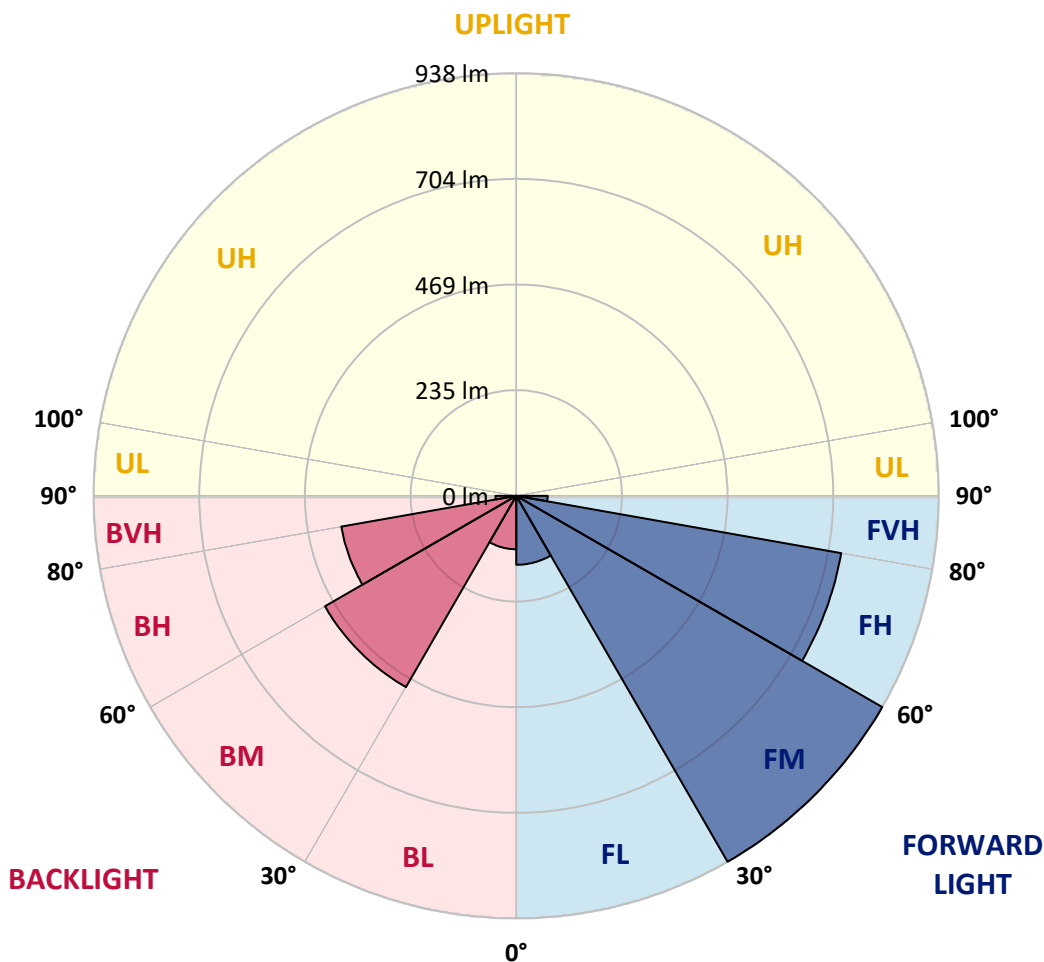


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	153.1	5.2			
FM (30°-60°)	938.2	31.9			
FH (60°-80°)	732.5	24.9			G1/1800
FVH (80°-90°)	69.6	2.4			G1/100
BL (0°-30°)	118.6	4.0	B1/500		
BM (30°-60°)	490.3	16.7	B1/1000		
BH (60°-80°)	394.4	13.4	B1/500		G1/500
BVH (80°-90°)	46.2	1.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	235.9	235.9	235.9	235.9	235.9	235.9	235.9	235.9	235.9	235.9	235.9
2.5°	239.2	239.2	239.2	238.6	238.6	238.6	237.9	237.9	237.9	237.2	236.6
5°	244.5	244.5	243.9	244.5	243.9	243.2	242.6	242.6	242.6	241.9	241.2
7.5°	251.8	252.5	251.8	252.5	251.8	251.2	249.8	249.8	249.2	247.9	246.5
10°	263.1	263.1	263.1	262.4	261.8	261.1	260.4	259.8	259.1	257.1	255.1
12.5°	277.0	277.0	277.0	275.7	275.7	274.4	273.7	273.0	271.7	269.1	266.4
15°	294.2	293.6	295.6	295.6	294.9	294.9	292.9	291.6	290.3	286.3	280.3
17.5°	317.4	316.8	318.8	320.1	320.1	320.7	317.4	316.1	311.5	306.2	298.2
20°	348.6	347.3	349.2	350.6	349.2	350.6	347.3	347.9	341.3	332.0	319.4
22.5°	382.4	382.4	384.4	384.4	385.0	386.4	382.4	380.4	375.1	361.8	345.9
25°	424.1	427.4	427.4	427.4	430.1	430.8	426.8	423.5	416.2	398.3	376.4
27.5°	475.2	474.5	473.8	477.8	477.8	479.1	476.5	475.2	466.5	444.7	411.5
30°	529.5	525.5	528.2	529.5	532.2	534.1	531.5	527.5	516.9	493.1	452.0
32.5°	579.2	581.9	585.8	587.2	591.1	591.8	585.2	585.2	574.6	544.1	501.7
35°	635.5	635.5	646.1	650.8	650.8	654.8	644.8	639.5	632.2	600.4	546.7
37.5°	684.6	685.9	694.5	705.1	706.4	712.4	705.1	703.1	689.9	657.4	597.8
40°	730.3	731.6	742.2	754.8	762.1	771.4	764.1	760.8	746.9	709.8	648.8
42.5°	766.1	768.7	782.0	800.5	812.5	823.7	820.4	818.4	799.2	760.1	695.8
45°	793.3	797.9	816.5	838.3	854.9	871.5	872.1	868.1	850.3	806.5	741.6
47.5°	815.1	820.4	841.0	868.8	894.0	914.5	918.5	913.9	897.3	851.6	782.7
50°	833.0	835.7	858.9	894.7	925.8	951.6	959.6	955.6	941.0	889.4	818.4
52.5°	842.3	846.3	872.8	913.9	951.6	982.8	994.7	992.7	975.5	923.8	850.3
55°	846.9	850.9	882.1	929.1	971.5	1008.0	1022.6	1023.2	1006.7	955.0	880.1
57.5°	841.6	846.9	880.7	933.1	980.1	1019.2	1041.8	1041.1	1027.9	978.8	905.3
59°	832.4	836.3	872.8	927.8	978.8	1017.9	1043.8	1044.4	1032.5	986.8	916.5
60°	821.8	826.4	863.5	921.2	973.5	1013.3	1040.4	1041.8	1031.8	988.8	921.2
62.5°	785.3	791.3	832.4	894.0	951.0	988.8	1021.2	1023.2	1017.9	983.5	924.5
65°	734.3	739.6	784.0	849.6	909.2	948.3	978.8	983.5	982.8	959.6	911.2
67.5°	672.0	672.6	714.4	786.0	848.3	886.7	915.9	923.8	929.8	914.5	872.1
70°	597.1	596.4	636.9	707.8	770.1	810.5	839.6	845.0	860.2	848.3	813.8
72.5°	504.3	512.3	550.0	609.7	671.3	716.4	742.2	752.2	760.8	763.4	734.9
75°	416.8	425.5	455.3	510.9	564.0	605.7	633.5	638.2	654.1	658.1	631.6
77.5°	333.3	334.0	355.9	400.3	448.7	483.1	505.6	517.6	526.2	534.1	506.3
80°	233.9	237.2	252.5	284.3	322.1	358.5	377.1	385.0	391.0	396.3	387.0
82.5°	146.5	147.8	157.7	176.9	202.8	223.3	242.6	249.2	250.5	262.4	261.1
85°	69.6	70.2	76.9	86.2	97.4	114.0	121.3	121.3	130.6	139.2	139.2
87.5°	9.3	9.3	11.3	12.6	15.9	20.5	28.5	29.2	34.5	38.4	41.8
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°	235.9	235.9	235.9	235.9	235.9	235.9	235.9	235.9	235.9	235.9	235.9
2.5°	236.6	236.6	236.6	236.6	236.6	235.9	236.6	236.6	236.6	236.6	236.6
5°	241.2	240.6	239.9	239.2	239.2	238.6	238.6	238.6	238.6	238.6	238.6
7.5°	245.9	245.2	244.5	243.2	242.6	241.9	241.9	241.2	241.2	241.2	241.2
10°	253.8	253.2	250.5	248.5	247.2	246.5	245.9	245.2	244.5	244.5	244.5
12.5°	264.4	263.1	258.5	255.8	253.8	252.5	251.2	250.5	249.8	249.2	249.2
15°	277.7	274.4	268.4	264.4	261.8	259.8	257.8	256.5	255.8	255.1	255.1
17.5°	293.6	289.6	281.7	274.4	269.7	266.4	263.8	261.8	261.1	261.1	261.1
20°	313.5	306.8	295.6	285.6	278.3	273.7	269.7	267.7	267.1	266.4	265.7
22.5°	336.7	328.0	311.5	296.2	287.0	280.3	275.7	273.0	271.0	270.4	270.4
25°	363.2	350.6	328.7	310.1	297.6	288.3	282.3	279.0	275.7	274.4	274.4
27.5°	395.0	378.4	349.2	324.7	307.5	296.2	289.6	285.0	281.7	279.0	277.7
30°	429.4	410.9	371.8	340.6	318.8	306.2	298.2	292.9	288.3	283.6	283.0
32.5°	473.2	446.7	398.9	358.5	332.0	316.1	306.8	300.2	294.2	289.6	288.3
35°	517.6	485.8	427.4	377.1	344.6	325.4	314.1	306.8	300.9	295.6	294.9
37.5°	563.3	529.5	458.6	398.9	359.2	336.0	322.1	314.1	306.8	301.5	300.9
40°	611.0	571.3	490.4	421.5	374.4	346.6	330.7	320.7	312.8	308.2	307.5
42.5°	656.1	613.0	524.9	448.0	392.3	357.9	339.3	328.7	318.8	314.1	313.5
45°	699.2	652.8	559.3	472.5	410.2	369.8	347.9	335.3	324.7	320.1	319.4
47.5°	738.3	691.9	591.1	499.0	428.8	383.0	357.2	342.0	330.0	325.4	325.4
50°	773.4	725.0	622.3	523.5	446.0	396.3	365.2	347.9	336.0	331.4	330.7
52.5°	806.5	754.2	649.5	544.7	462.6	408.2	373.1	352.6	340.0	334.7	334.0
55°	833.0	780.7	672.0	562.0	473.8	416.2	378.4	355.2	341.3	336.7	336.0
57.5°	856.2	802.5	687.9	573.9	481.1	420.8	381.1	355.2	340.6	335.3	334.7
59°	866.2	811.8	693.2	577.2	482.5	421.5	380.4	353.2	338.0	332.7	331.4
60°	871.5	815.8	695.2	577.9	481.8	420.2	379.7	351.2	335.3	329.4	329.4
62.5°	876.8	819.1	692.5	572.6	474.5	412.9	373.1	343.3	325.4	318.8	318.8
65°	865.5	807.2	677.3	558.0	459.9	400.3	360.5	330.0	310.1	303.5	303.5
67.5°	832.4	778.0	649.5	530.8	436.1	378.4	340.0	308.8	290.3	283.0	281.0
70°	776.0	730.3	605.7	491.7	403.6	350.6	314.1	284.3	265.1	257.8	255.1
72.5°	700.5	655.4	547.4	444.0	360.5	314.1	282.3	253.8	232.6	225.3	226.0
75°	596.4	564.6	471.8	383.7	310.8	267.7	241.2	217.4	199.5	193.5	194.2
77.5°	483.8	457.3	382.4	312.8	253.8	220.7	198.1	178.9	167.0	163.7	161.7
80°	370.5	344.6	287.0	233.3	192.8	169.7	154.4	141.2	131.9	127.2	128.6
82.5°	248.5	232.6	190.2	154.4	131.2	114.6	109.3	100.7	97.4	94.8	96.8
85°	133.9	119.9	99.4	82.8	72.2	67.6	68.9	68.3	65.6	64.9	66.9
87.5°	43.7	37.8	29.2	24.5	25.2	22.5	22.5	21.2	19.2	18.6	19.9
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)