

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: P472321

Luminaire Tested: **CCW-VA-1-740-U-T3**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472321
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-1-740-U-T3
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T3 DISTRIBUTION LENS
Light Source: 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2851.1 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

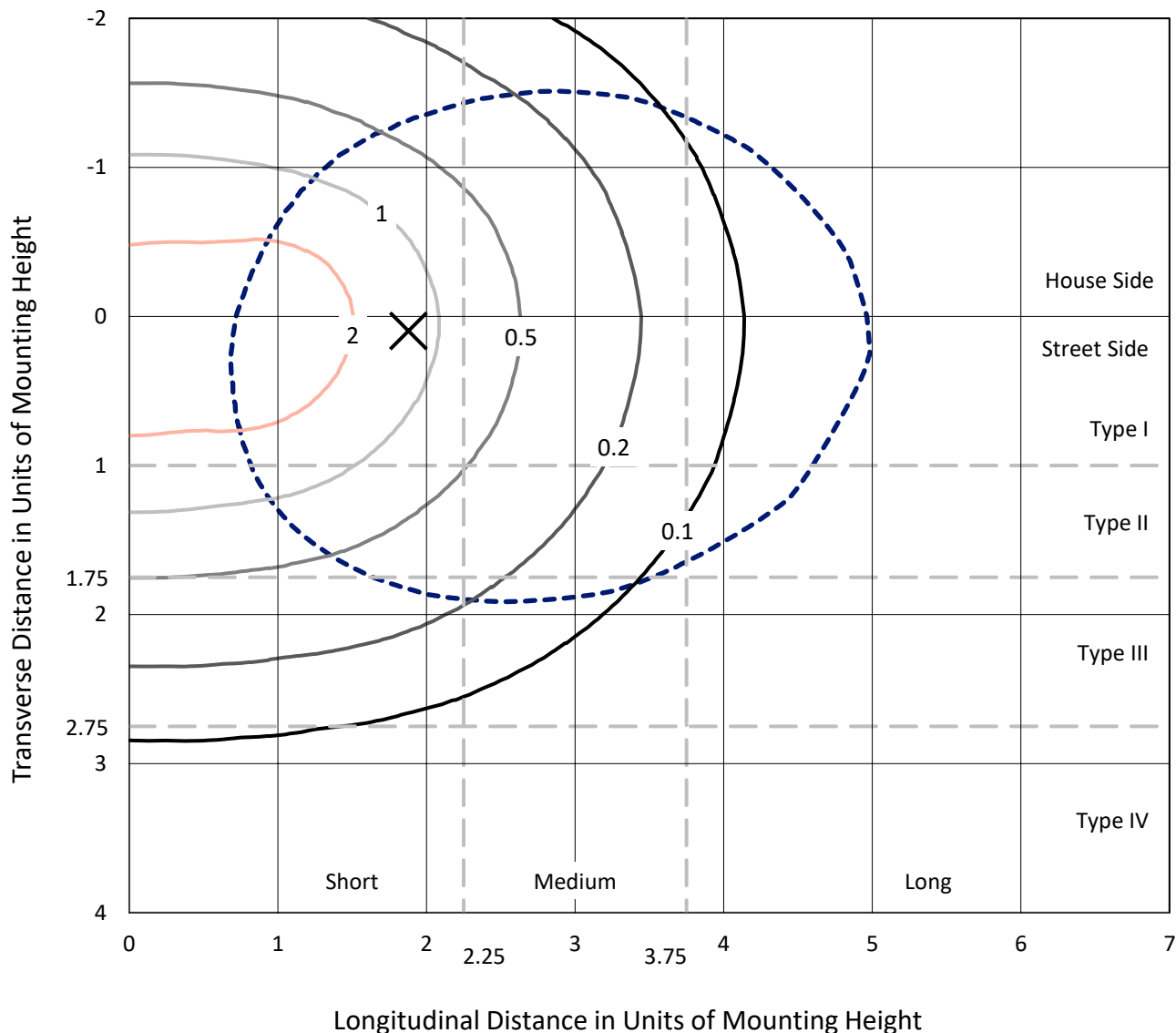
Input Watts (W): 30.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P472321
 CATALOG NUMBER: CCW-VA-1-740-U-T3

Iso-Footcandle Lines of Horizontal Illumination

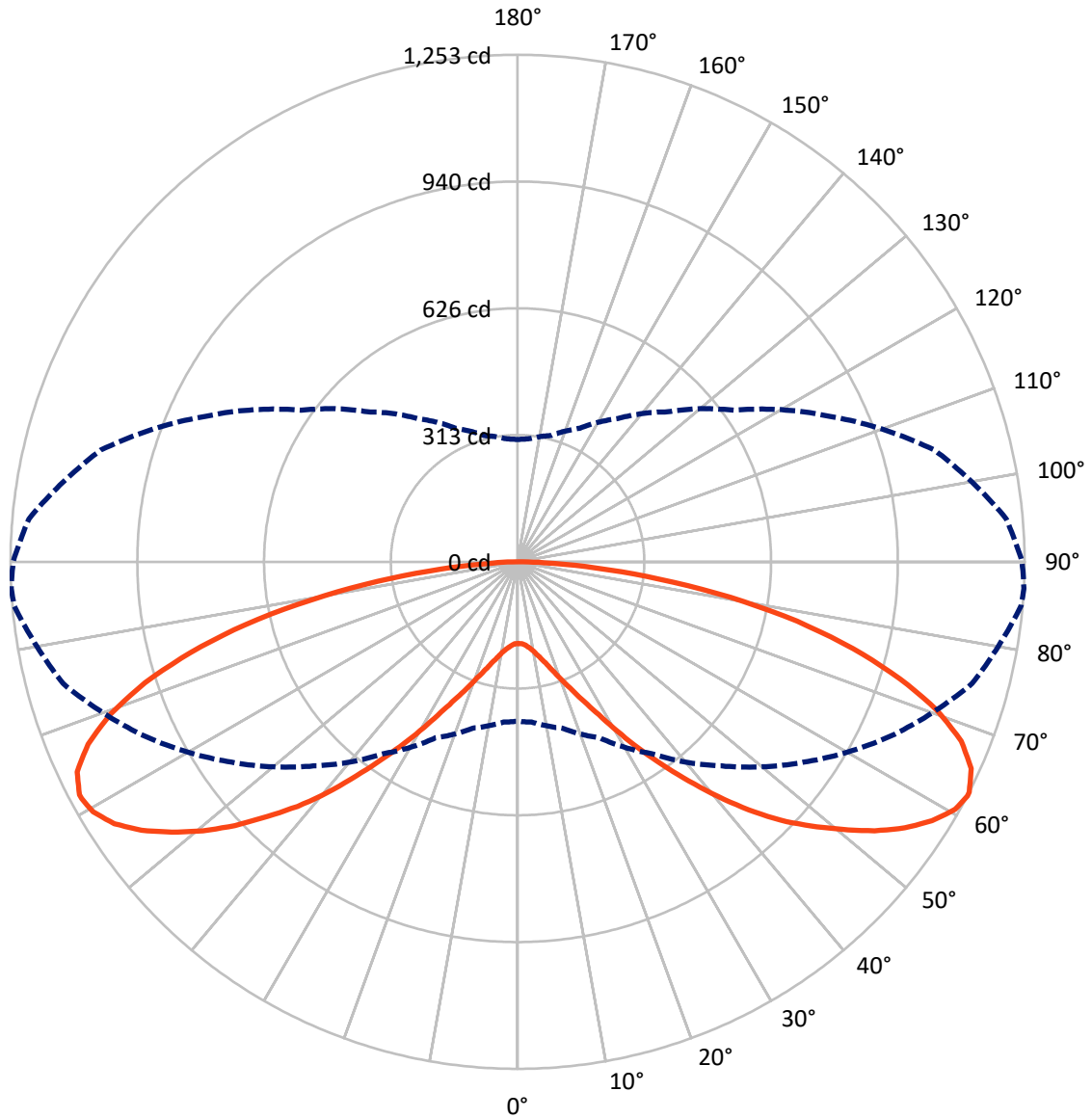
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 87-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

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 CATALOG NUMBER: CCW-VA-1-740-U-T3

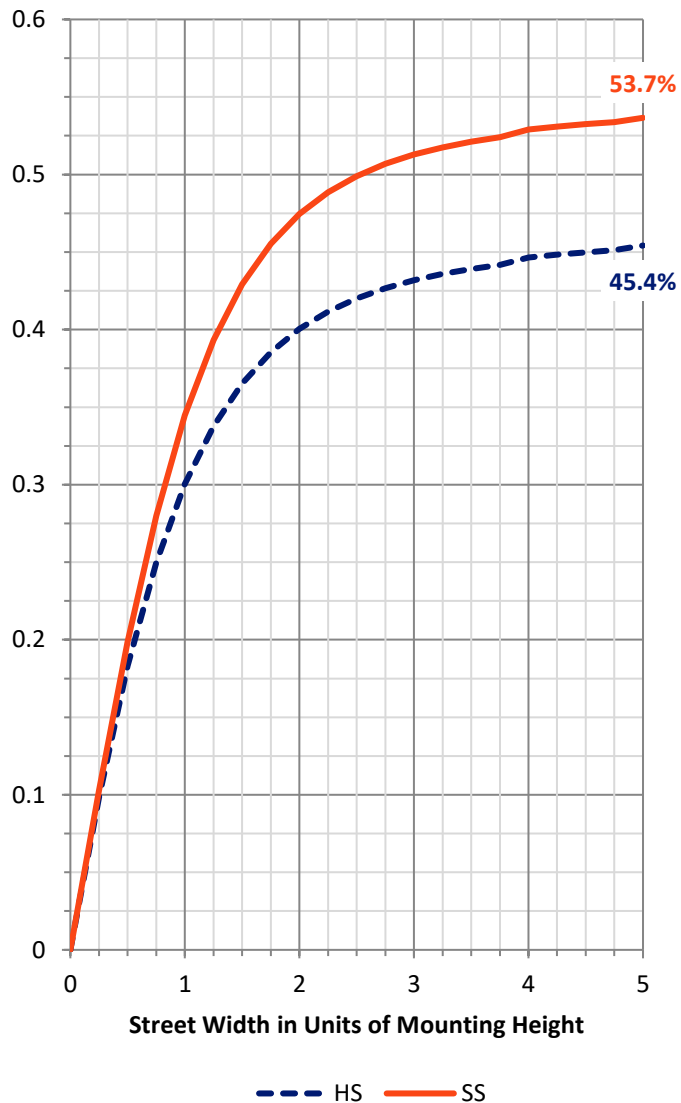
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1312.7	0.0	1312.7
	% Fixture	46.0	0.0	46.0
Street Side	Lumens	1538.4	0.0	1538.4
	% Fixture	54.0	0.0	54.0
Total	Lumens	2851.1	0.0	2851.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.3	0.7
10°-20°	71.6	2.5
20°-30°	153.2	5.4
30°-40°	282.3	9.9
40°-50°	450.2	15.8
50°-60°	612.2	21.5
60°-70°	663.3	23.3
70°-80°	474.0	16.6
80°-90°	123.9	4.3
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°	2851.1	100.0
0°-180°	2851.1	100.0

Coefficient of Utilization

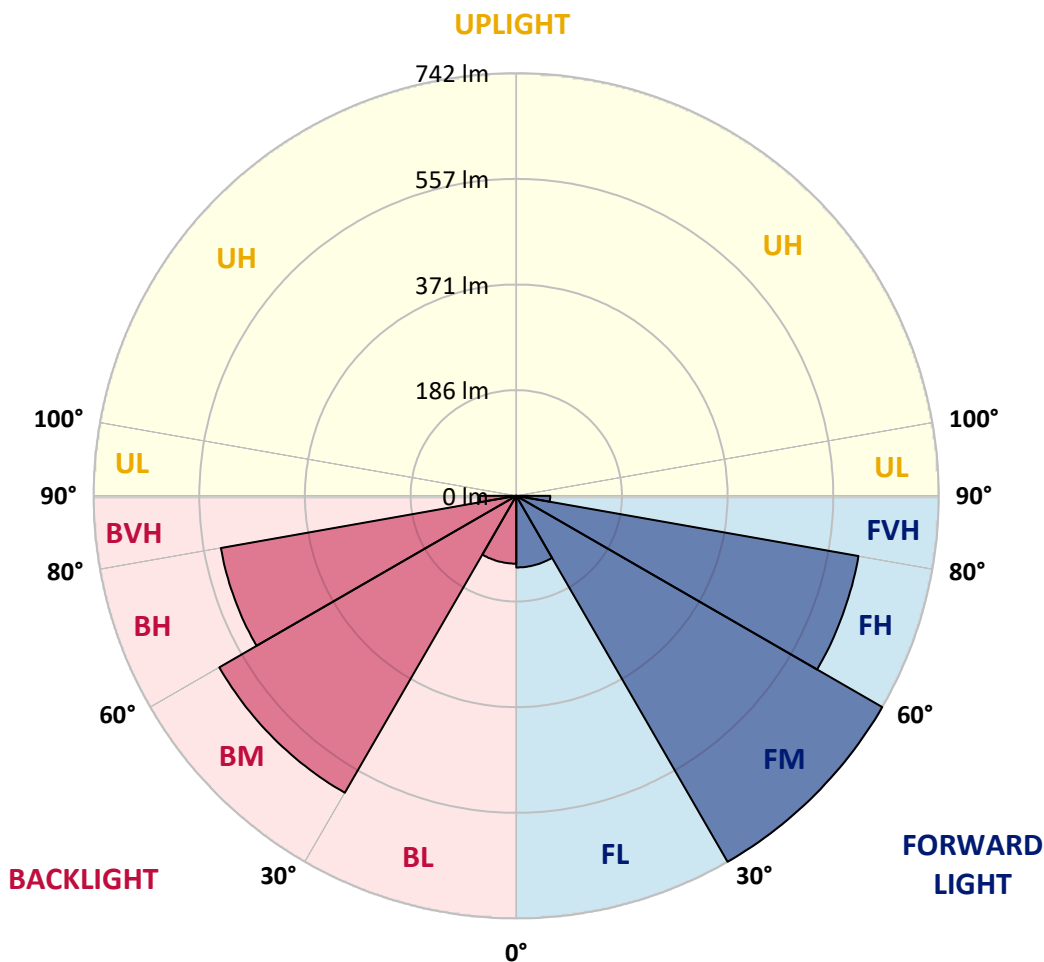


REPORT NUMBER: P472321
 CATALOG NUMBER: CCW-VA-1-740-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	125.9	4.4			
FM (30°-60°)	742.4	26.0			
FH (60°-80°)	610.4	21.4			G0/660
FVH (80°-90°)	59.7	2.1			G1/100
BL (0°-30°)	119.2	4.2	B1/500		
BM (30°-60°)	602.4	21.1	B1/1000		
BH (60°-80°)	526.9	18.5	B2/1000		G2/1000
BVH (80°-90°)	64.2	2.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Short





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 CATALOG NUMBER: CCW-VA-1-740-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87°
0°	201.8	201.8	201.8	201.8	201.8	201.8	201.8	201.8	201.8	201.8	201.8
2.5°	202.2	202.2	202.2	202.2	202.2	202.2	202.2	202.2	202.2	202.7	202.7
5°	203.6	203.2	203.2	203.6	204.1	204.5	205.4	205.9	206.8	207.7	207.3
7.5°	207.7	207.7	207.7	208.2	209.6	210.5	211.9	213.3	214.6	215.6	215.1
10°	214.2	214.2	214.2	215.1	216.5	219.2	221.5	223.8	225.2	226.1	226.6
12.5°	221.1	221.1	222.0	223.8	226.6	230.3	234.4	237.6	239.9	240.8	241.3
15°	230.7	231.2	233.0	234.9	238.5	244.1	251.0	255.5	257.8	259.7	259.2
17.5°	245.4	245.0	246.4	250.5	254.6	262.4	270.7	278.5	283.1	283.1	283.1
20°	262.0	261.5	262.4	265.7	272.6	283.1	296.0	306.6	311.6	310.7	311.6
22.5°	280.4	280.4	281.3	284.0	290.9	306.1	324.0	339.7	346.6	344.3	343.3
25°	300.6	300.6	302.0	304.3	313.9	332.3	356.2	378.7	385.6	383.3	382.4
27.5°	324.0	322.2	324.9	327.2	339.2	363.6	394.8	423.3	438.5	430.7	427.9
30°	348.8	347.5	347.9	352.5	366.3	397.6	434.8	472.9	494.1	489.0	484.9
32.5°	370.5	371.4	372.7	380.6	396.2	433.9	477.1	527.2	551.1	549.7	548.8
35°	394.8	394.8	397.6	404.9	427.9	472.5	524.9	581.4	616.8	618.2	615.4
37.5°	414.1	414.1	418.3	427.9	455.0	507.9	572.2	638.9	681.6	689.0	686.7
40°	431.1	430.2	434.8	449.0	480.8	545.6	618.6	695.9	753.3	765.7	762.5
42.5°	441.2	442.2	448.6	466.5	505.6	578.7	664.1	749.6	816.7	837.9	837.9
45°	448.6	449.5	459.2	480.3	528.1	611.3	705.5	804.8	878.8	909.6	911.0
47.5°	451.8	453.2	465.1	490.9	546.9	641.2	745.5	854.4	934.4	978.1	975.3
50°	451.8	453.6	467.9	498.7	563.9	666.4	783.2	901.8	990.9	1039.7	1039.2
52.5°	449.0	451.3	468.8	504.7	578.2	690.8	816.7	942.2	1045.2	1102.6	1104.5
55°	443.5	446.3	466.5	508.3	589.2	710.1	843.9	979.9	1092.0	1156.9	1161.0
57.5°	432.5	435.3	458.2	505.1	593.4	720.2	863.6	1006.6	1130.2	1206.0	1207.0
60°	414.1	417.3	442.2	494.5	589.2	720.7	868.7	1018.5	1155.9	1239.1	1242.3
62°	393.9	397.6	425.6	479.8	578.7	713.3	863.2	1018.1	1162.8	1248.8	1252.9
62.5°	388.8	392.1	420.5	474.8	574.5	709.6	859.9	1015.8	1161.9	1249.2	1252.5
65°	357.6	360.8	389.8	447.2	549.2	687.1	836.5	995.5	1145.4	1230.9	1231.8
67.5°	323.1	326.3	355.3	409.5	512.9	649.4	797.0	955.5	1101.2	1175.2	1182.1
70°	283.1	287.7	314.4	368.2	465.1	595.2	734.5	892.1	1030.9	1093.9	1100.3
72.5°	243.6	246.8	268.0	315.3	403.1	524.0	653.6	796.1	922.4	982.2	987.7
75°	197.6	200.4	221.1	260.1	333.7	436.6	558.9	683.4	798.4	852.1	856.3
77.5°	155.8	156.7	171.4	202.7	259.2	342.4	443.5	541.9	646.2	694.9	706.0
80°	109.8	114.4	124.6	146.2	182.0	245.4	318.5	402.6	475.7	530.4	534.1
82.5°	71.2	72.2	78.6	86.4	112.1	154.9	202.7	254.6	319.9	355.3	352.5
85°	37.2	37.2	39.5	41.8	50.6	69.4	97.9	134.2	172.4	199.0	195.3
87.5°	6.4	6.0	6.4	6.0	7.8	11.0	20.7	33.6	50.6	59.8	65.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P472321
 CATALOG NUMBER: CCW-VA-1-740-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	201.8	201.8	201.8	201.8	201.8	201.8	201.8	201.8	201.8	201.8	201.8
2.5°	202.7	202.7	203.2	204.1	204.1	204.5	205.0	205.0	205.4	205.9	205.9
5°	208.2	208.2	208.7	209.6	210.0	210.0	210.5	211.0	211.0	211.0	211.4
7.5°	215.6	216.0	216.5	216.9	217.4	217.4	218.8	218.3	218.3	218.3	218.3
10°	226.1	227.1	227.1	227.1	227.1	226.6	227.1	226.6	225.7	225.7	225.2
12.5°	241.8	241.8	240.8	239.9	238.5	238.1	237.6	236.2	234.4	233.5	233.5
15°	259.7	258.8	256.9	255.1	252.8	251.0	247.7	245.9	243.6	242.7	242.7
17.5°	282.7	281.3	276.2	272.6	267.0	262.9	259.2	255.5	252.8	251.9	251.4
20°	308.9	305.6	298.3	290.0	282.7	276.2	269.3	264.7	262.0	259.7	259.2
22.5°	342.0	337.4	324.5	311.6	298.3	289.1	280.4	273.9	268.9	266.6	265.7
25°	377.8	370.9	354.4	335.1	316.7	302.4	291.4	282.7	276.7	273.0	272.1
27.5°	423.3	413.2	388.8	359.9	335.5	317.6	302.4	292.3	284.5	279.0	278.1
30°	476.6	466.1	425.6	387.5	356.7	331.4	314.8	301.5	291.9	285.4	284.0
32.5°	540.0	520.7	474.3	420.5	378.3	347.5	326.3	310.7	298.8	291.4	289.6
35°	604.4	584.6	523.5	455.5	401.2	364.0	338.7	319.9	306.6	297.4	296.5
37.5°	676.6	652.7	581.0	495.0	426.1	381.5	350.2	328.6	312.5	302.9	302.0
40°	754.2	729.9	642.5	540.5	455.5	398.5	361.3	336.9	319.0	308.4	307.0
42.5°	830.5	801.6	705.1	586.0	485.4	417.3	374.1	345.6	324.5	313.5	311.6
45°	896.7	871.4	768.5	638.4	519.8	436.6	387.0	353.9	330.5	318.1	316.2
47.5°	971.6	944.5	837.9	686.7	552.9	458.7	399.4	361.3	335.5	322.2	320.8
50°	1037.8	1013.5	899.5	731.2	584.6	479.4	410.9	368.2	339.7	325.4	323.6
52.5°	1098.0	1076.4	956.0	773.1	611.7	498.7	421.5	373.2	342.4	326.8	324.5
55°	1158.7	1130.7	1005.2	809.8	633.4	513.9	430.2	375.5	342.0	325.9	323.6
57.5°	1204.2	1177.5	1041.0	836.0	649.4	524.0	435.3	375.0	339.2	321.7	319.0
60°	1235.0	1205.6	1062.2	848.9	655.0	527.2	435.3	370.9	332.3	313.5	310.7
62°	1246.5	1212.5	1066.3	850.7	652.7	524.0	432.0	364.0	323.1	304.7	302.0
62.5°	1246.9	1212.0	1064.9	849.4	651.3	522.6	430.2	361.7	320.8	302.0	299.2
65°	1226.7	1191.8	1048.4	835.1	635.6	510.2	417.3	348.4	304.7	286.3	283.6
67.5°	1168.8	1142.1	1008.9	802.0	609.0	487.2	398.5	329.1	285.9	266.6	265.2
70°	1088.4	1064.0	944.5	751.9	570.4	454.1	370.5	303.3	262.0	244.5	241.3
72.5°	987.3	955.5	853.0	684.8	514.8	408.6	333.7	271.2	234.4	218.8	216.9
75°	861.8	823.6	738.1	596.1	448.1	353.9	290.9	235.3	202.7	189.4	190.7
77.5°	701.8	683.9	596.6	475.2	364.9	292.8	238.5	199.5	171.4	160.4	159.5
80°	529.9	512.9	451.8	360.8	275.8	221.5	184.8	157.2	137.9	128.2	127.8
82.5°	359.4	343.3	296.9	242.2	188.0	156.7	133.7	115.8	103.9	99.3	99.3
85°	197.6	183.8	157.2	131.0	106.2	89.6	86.4	77.2	74.0	73.1	74.0
87.5°	61.6	61.1	51.9	42.7	37.2	37.7	34.0	34.9	33.1	32.6	34.9
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)