

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: P472314

Luminaire Tested: **CCW-VA-2-730-U-T3**

Issue Date: 01/27/2021

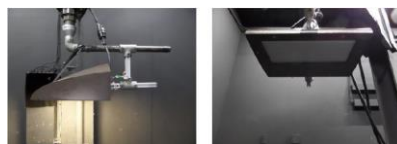
Test Information

Test Method: LM-79-08
Report Number: P472314
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-2-730-U-T3
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T3 DISTRIBUTION LENS
Light Source: 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3701.1 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

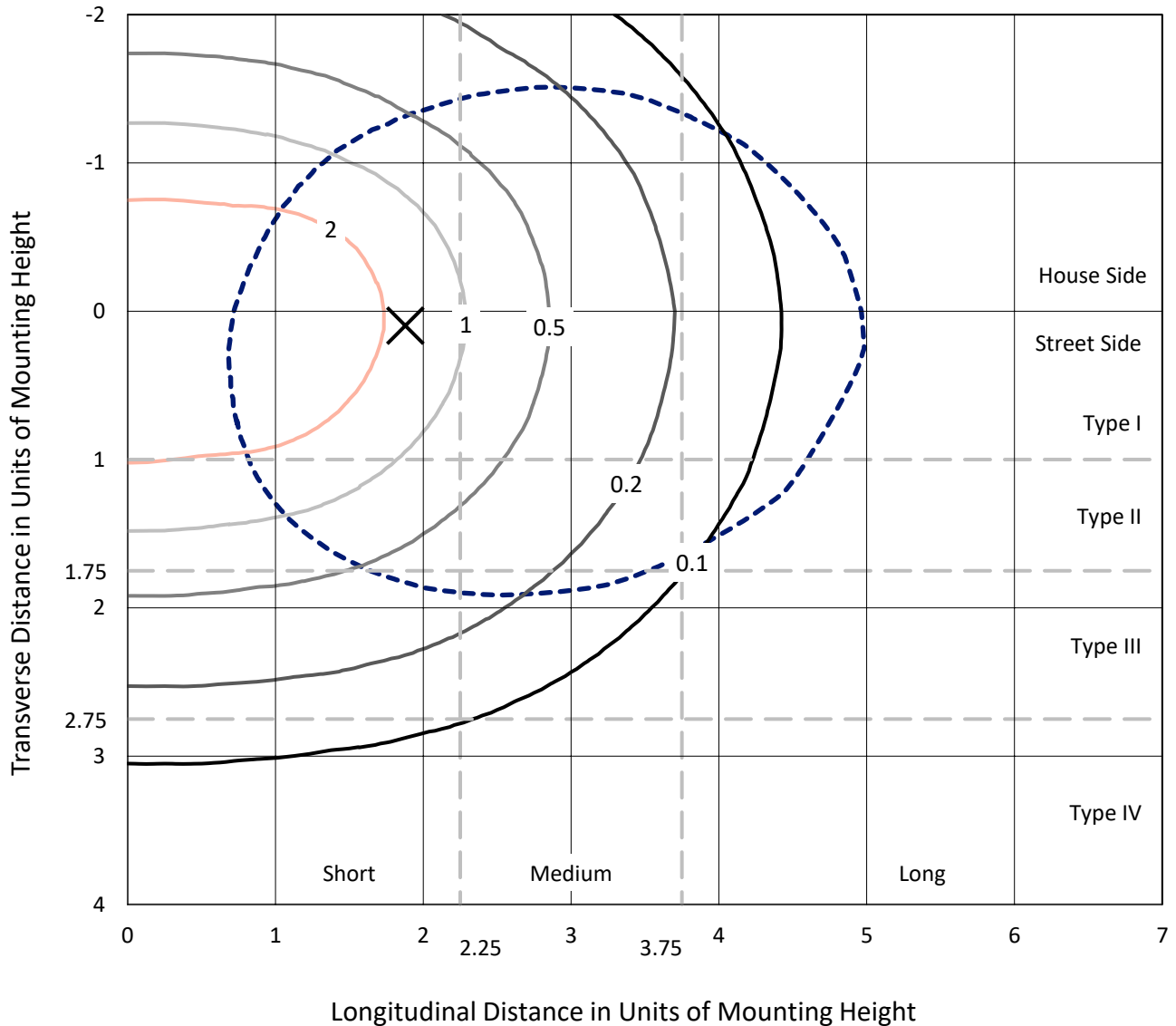
Input Watts (W): 41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

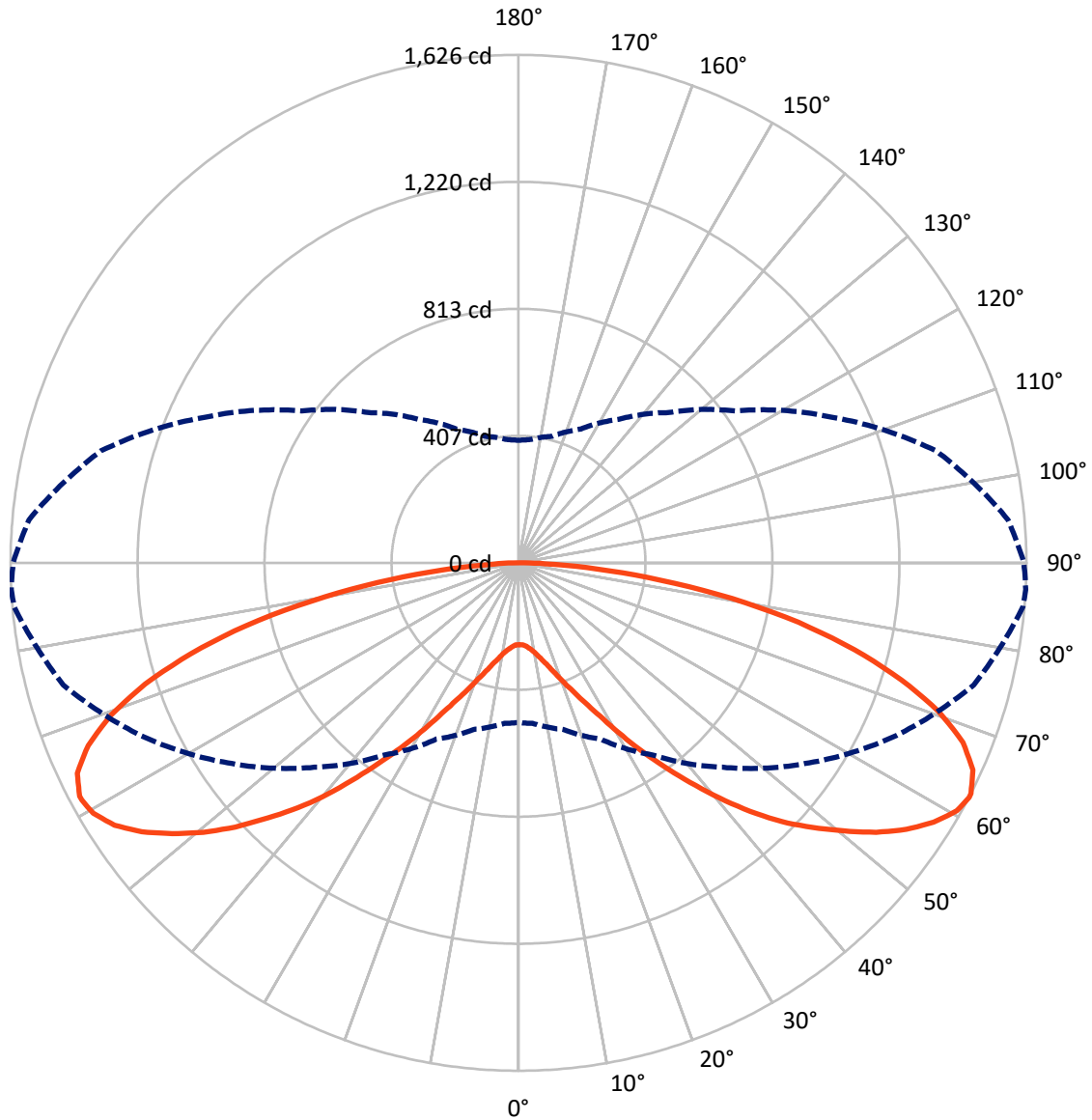
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 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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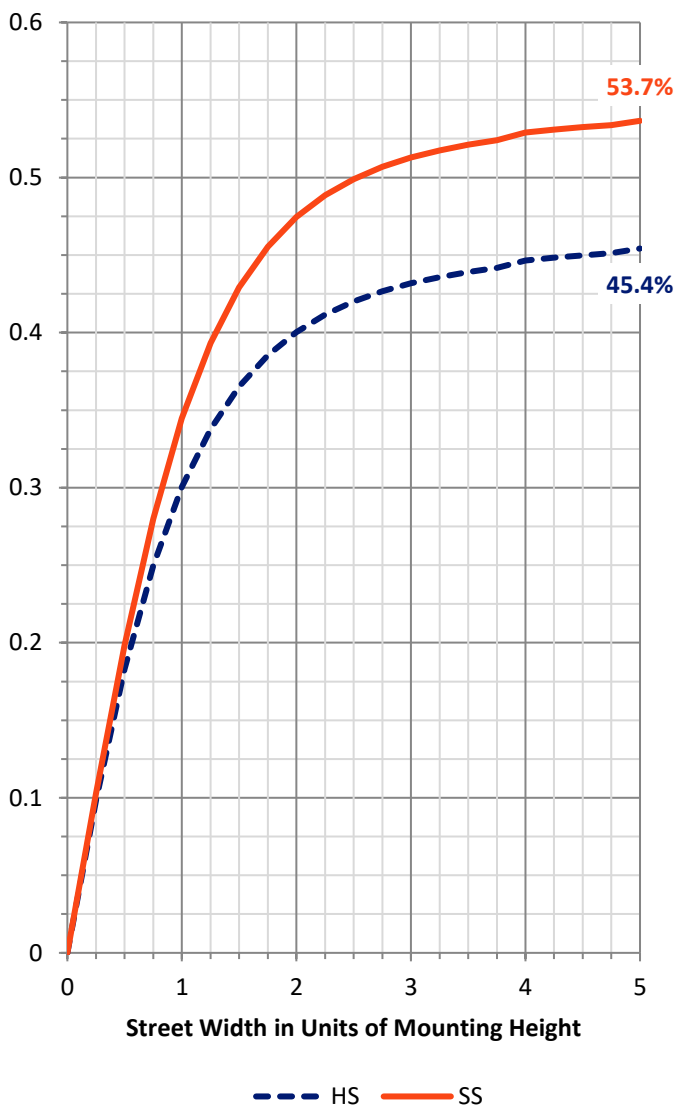
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1704.1	0.0	1704.1
	% Fixture	46.0	0.0	46.0
Street Side	Lumens	1997.0	0.0	1997.0
	% Fixture	54.0	0.0	54.0
Total	Lumens	3701.1	0.0	3701.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.4	0.7
10°-20°	93.0	2.5
20°-30°	198.8	5.4
30°-40°	366.5	9.9
40°-50°	584.4	15.8
50°-60°	794.8	21.5
60°-70°	861.1	23.3
70°-80°	615.3	16.6
80°-90°	160.8	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°	3701.1	100.0
0°-180°	3701.1	100.0

Coefficient of Utilization



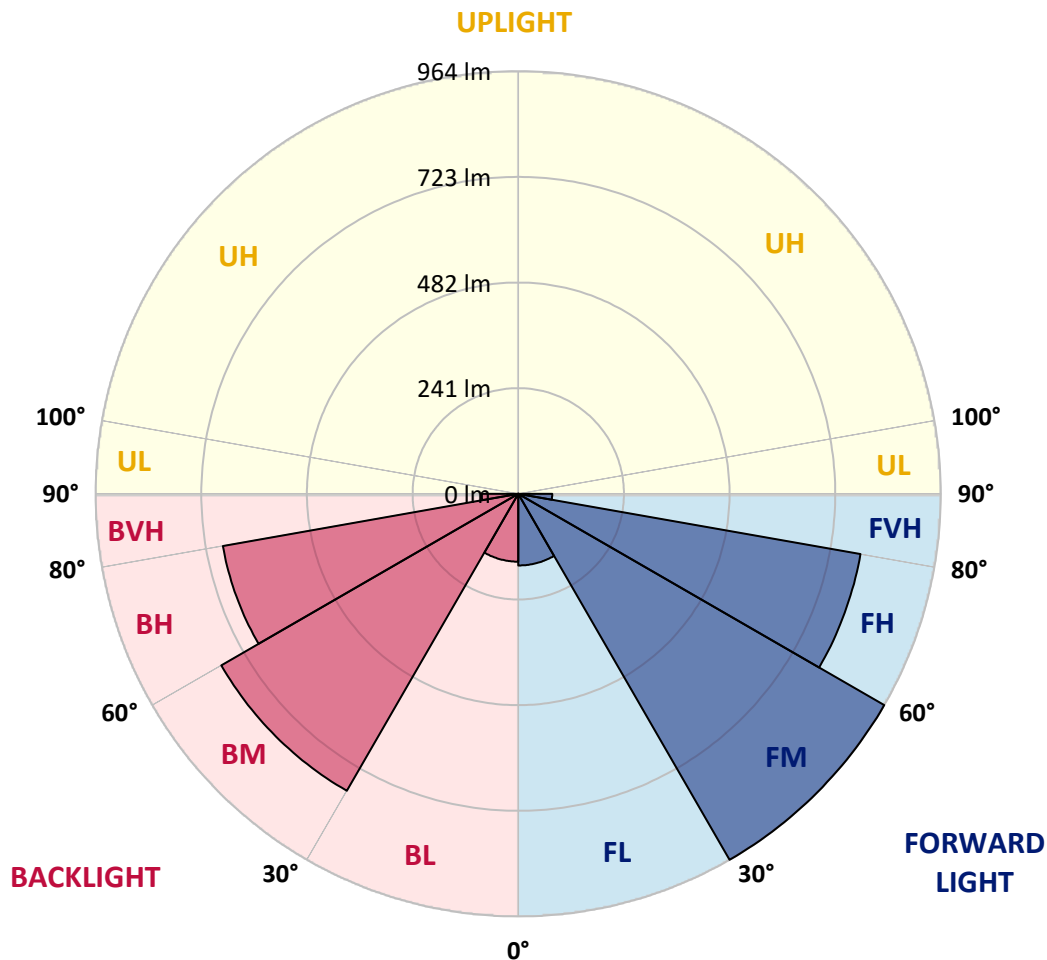
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	163.4	4.4			
FM (30°-60°)	963.7	26.0			
FH (60°-80°)	792.4	21.4			G1/1800
FVH (80°-90°)	77.5	2.1			G1/100
BL (0°-30°)	154.8	4.2	B1/500		
BM (30°-60°)	782.0	21.1	B1/1000		
BH (60°-80°)	684.0	18.5	B2/1000		G2/1000
BVH (80°-90°)	83.4	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87°
0°	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9
2.5°	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	263.1	263.1
5°	264.3	263.7	263.7	264.3	264.9	265.5	266.7	267.3	268.5	269.7	269.1
7.5°	269.7	269.7	269.7	270.3	272.1	273.3	275.1	276.8	278.6	279.8	279.2
10°	278.0	278.0	278.0	279.2	281.0	284.6	287.6	290.6	292.4	293.5	294.1
12.5°	287.0	287.0	288.2	290.6	294.1	298.9	304.3	308.5	311.4	312.6	313.2
15°	299.5	300.1	302.5	304.9	309.7	316.8	325.8	331.7	334.7	337.1	336.5
17.5°	318.6	318.0	319.8	325.2	330.5	340.7	351.4	361.6	367.5	367.5	367.5
20°	340.1	339.5	340.7	344.9	353.8	367.5	384.2	398.0	404.5	403.3	404.5
22.5°	364.0	364.0	365.1	368.7	377.7	397.4	420.6	440.9	449.9	446.9	445.7
25°	390.2	390.2	392.0	395.0	407.5	431.4	462.4	491.6	500.6	497.6	496.4
27.5°	420.6	418.2	421.8	424.8	440.3	471.9	512.5	549.5	569.2	559.1	555.5
30°	452.9	451.1	451.7	457.6	475.5	516.1	564.4	613.9	641.4	634.8	629.5
32.5°	480.9	482.1	483.9	494.0	514.3	563.2	619.3	684.3	715.4	713.6	712.4
35°	512.5	512.5	516.1	525.6	555.5	613.3	681.4	754.8	800.7	802.5	798.9
37.5°	537.6	537.6	542.9	555.5	590.7	659.3	742.8	829.3	884.8	894.4	891.4
40°	559.6	558.5	564.4	582.9	624.1	708.2	803.1	903.3	977.9	994.0	989.8
42.5°	572.8	574.0	582.3	605.6	656.3	751.2	862.1	973.1	1060.2	1087.7	1087.7
45°	582.3	583.5	596.0	623.5	685.5	793.5	915.8	1044.7	1140.8	1180.8	1182.5
47.5°	586.5	588.3	603.8	637.2	710.0	832.3	967.8	1109.2	1213.0	1269.7	1266.1
50°	586.5	588.9	607.4	647.4	732.1	865.1	1016.7	1170.6	1286.4	1349.6	1349.0
52.5°	582.9	585.9	608.6	655.1	750.6	896.8	1060.2	1223.1	1356.8	1431.3	1433.7
55°	575.8	579.3	605.6	659.9	764.9	921.8	1095.4	1272.0	1417.6	1501.7	1507.1
57.5°	561.4	565.0	594.9	655.7	770.3	934.9	1121.1	1306.6	1467.1	1565.6	1566.8
60°	537.6	541.7	574.0	642.0	764.9	935.5	1127.7	1322.2	1500.6	1608.5	1612.7
62°	511.3	516.1	552.5	622.9	751.2	926.0	1120.5	1321.6	1509.5	1621.1	1626.4
62.5°	504.8	508.9	545.9	616.3	745.8	921.2	1116.3	1318.6	1508.3	1621.7	1625.8
65°	464.2	468.4	506.0	580.5	713.0	892.0	1085.9	1292.3	1486.8	1597.8	1599.0
67.5°	419.4	423.6	461.2	531.6	665.9	843.1	1034.6	1240.4	1429.6	1525.6	1534.6
70°	367.5	373.5	408.1	477.9	603.8	772.6	953.4	1158.1	1338.3	1420.0	1428.4
72.5°	316.2	320.4	347.8	409.3	523.3	680.2	848.4	1033.4	1197.5	1275.0	1282.2
75°	256.6	260.1	287.0	337.7	433.2	566.8	725.5	887.2	1036.4	1106.2	1111.5
77.5°	202.3	203.5	222.5	263.1	336.5	444.5	575.8	703.4	838.9	902.1	916.4
80°	142.6	148.6	161.7	189.7	236.3	318.6	413.5	522.7	617.5	688.5	693.3
82.5°	92.5	93.7	102.0	112.2	145.6	201.1	263.1	330.5	415.3	461.2	457.6
85°	48.3	48.3	51.3	54.3	65.6	90.1	127.1	174.2	223.7	258.3	253.6
87.5°	8.4	7.8	8.4	7.8	10.1	14.3	26.8	43.6	65.6	77.6	85.3
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°	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9
2.5°	263.1	263.1	263.7	264.9	264.9	265.5	266.1	266.1	266.7	267.3	267.3
5°	270.3	270.3	270.9	272.1	272.7	272.7	273.3	273.9	273.9	273.9	274.5
7.5°	279.8	280.4	281.0	281.6	282.2	282.2	284.0	283.4	283.4	283.4	283.4
10°	293.5	294.7	294.7	294.7	294.7	294.1	294.7	294.1	293.0	293.0	292.4
12.5°	313.8	313.8	312.6	311.4	309.7	309.1	308.5	306.7	304.3	303.1	303.1
15°	337.1	335.9	333.5	331.1	328.2	325.8	321.6	319.2	316.2	315.0	315.0
17.5°	366.9	365.1	358.6	353.8	346.6	341.3	336.5	331.7	328.2	327.0	326.4
20°	400.9	396.8	387.2	376.5	366.9	358.6	349.6	343.7	340.1	337.1	336.5
22.5°	443.9	437.9	421.2	404.5	387.2	375.3	364.0	355.6	349.0	346.1	344.9
25°	490.4	481.5	460.0	435.0	411.1	392.6	378.3	366.9	359.2	354.4	353.2
27.5°	549.5	536.4	504.8	467.2	435.5	412.3	392.6	379.5	369.3	362.2	361.0
30°	618.7	605.0	552.5	503.0	463.0	430.2	408.7	391.4	378.9	370.5	368.7
32.5°	701.1	676.0	615.7	545.9	491.0	451.1	423.6	403.3	387.8	378.3	375.9
35°	784.6	758.9	679.6	591.3	520.9	472.5	439.7	415.3	398.0	386.0	384.8
37.5°	878.3	847.2	754.2	642.6	553.1	495.2	454.6	426.6	405.7	393.2	392.0
40°	979.1	947.5	834.1	701.6	591.3	517.3	469.0	437.3	414.1	400.3	398.6
42.5°	1078.1	1040.5	915.2	760.7	630.1	541.7	485.7	448.7	421.2	406.9	404.5
45°	1164.0	1131.2	997.6	828.7	674.8	566.8	502.4	459.4	429.0	412.9	410.5
47.5°	1261.3	1226.1	1087.7	891.4	717.8	595.4	518.5	469.0	435.5	418.2	416.5
50°	1347.2	1315.6	1167.6	949.3	758.9	622.3	533.4	477.9	440.9	422.4	420.0
52.5°	1425.4	1397.3	1241.0	1003.5	794.1	647.4	547.1	484.5	444.5	424.2	421.2
55°	1504.1	1467.7	1304.9	1051.3	822.2	667.0	558.5	487.5	443.9	423.0	420.0
57.5°	1563.2	1528.6	1351.4	1085.3	843.1	680.2	565.0	486.9	440.3	417.6	414.1
60°	1603.2	1565.0	1378.8	1102.0	850.2	684.3	565.0	481.5	431.4	406.9	403.3
62°	1618.1	1573.9	1384.2	1104.4	847.2	680.2	560.8	472.5	419.4	395.6	392.0
62.5°	1618.7	1573.3	1382.4	1102.6	845.4	678.4	558.5	469.6	416.5	392.0	388.4
65°	1592.4	1547.1	1360.9	1084.1	825.2	662.3	541.7	452.3	395.6	371.7	368.1
67.5°	1517.3	1482.7	1309.6	1041.1	790.5	632.4	517.3	427.2	371.1	346.1	344.3
70°	1412.8	1381.2	1226.1	976.1	740.4	589.5	480.9	393.8	340.1	317.4	313.2
72.5°	1281.6	1240.4	1107.4	889.0	668.2	530.4	433.2	352.0	304.3	284.0	281.6
75°	1118.7	1069.2	958.2	773.8	581.7	459.4	377.7	305.5	263.1	245.8	247.6
77.5°	911.1	887.8	774.4	616.9	473.7	380.1	309.7	258.9	222.5	208.2	207.0
80°	687.9	665.9	586.5	468.4	358.0	287.6	239.8	204.1	179.0	166.5	165.9
82.5°	466.6	445.7	385.4	314.4	244.0	203.5	173.6	150.4	134.8	128.9	128.9
85°	256.6	238.7	204.1	170.0	137.8	116.3	112.2	100.2	96.1	94.9	96.1
87.5°	79.9	79.4	67.4	55.5	48.3	48.9	44.2	45.3	43.0	42.4	45.3
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)