

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: P472191

Luminaire Tested: **CCW-VA-3-835-U-T4W**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472191
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-3-835-U-T4W
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4822 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

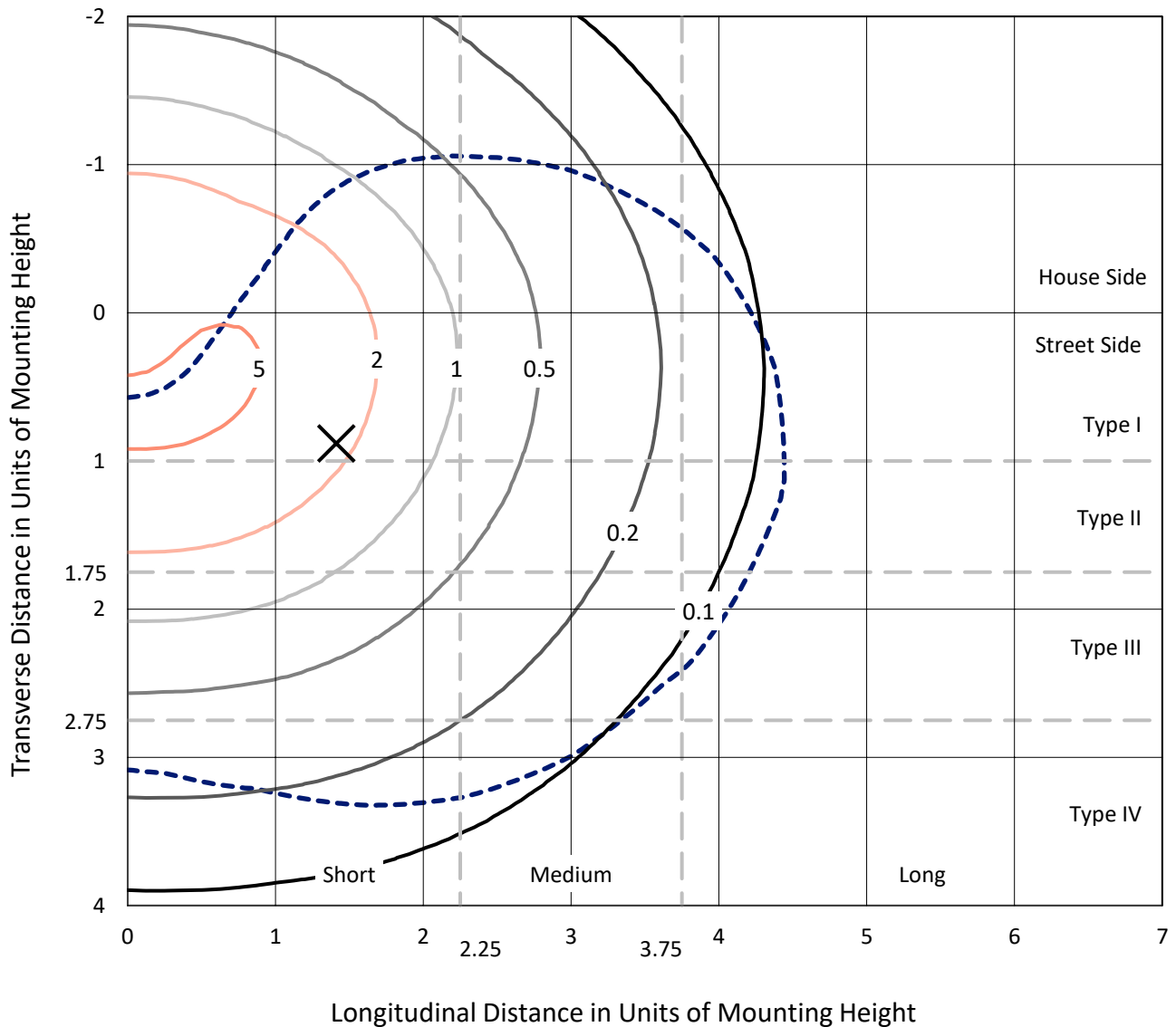
Input Watts (W): 46.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

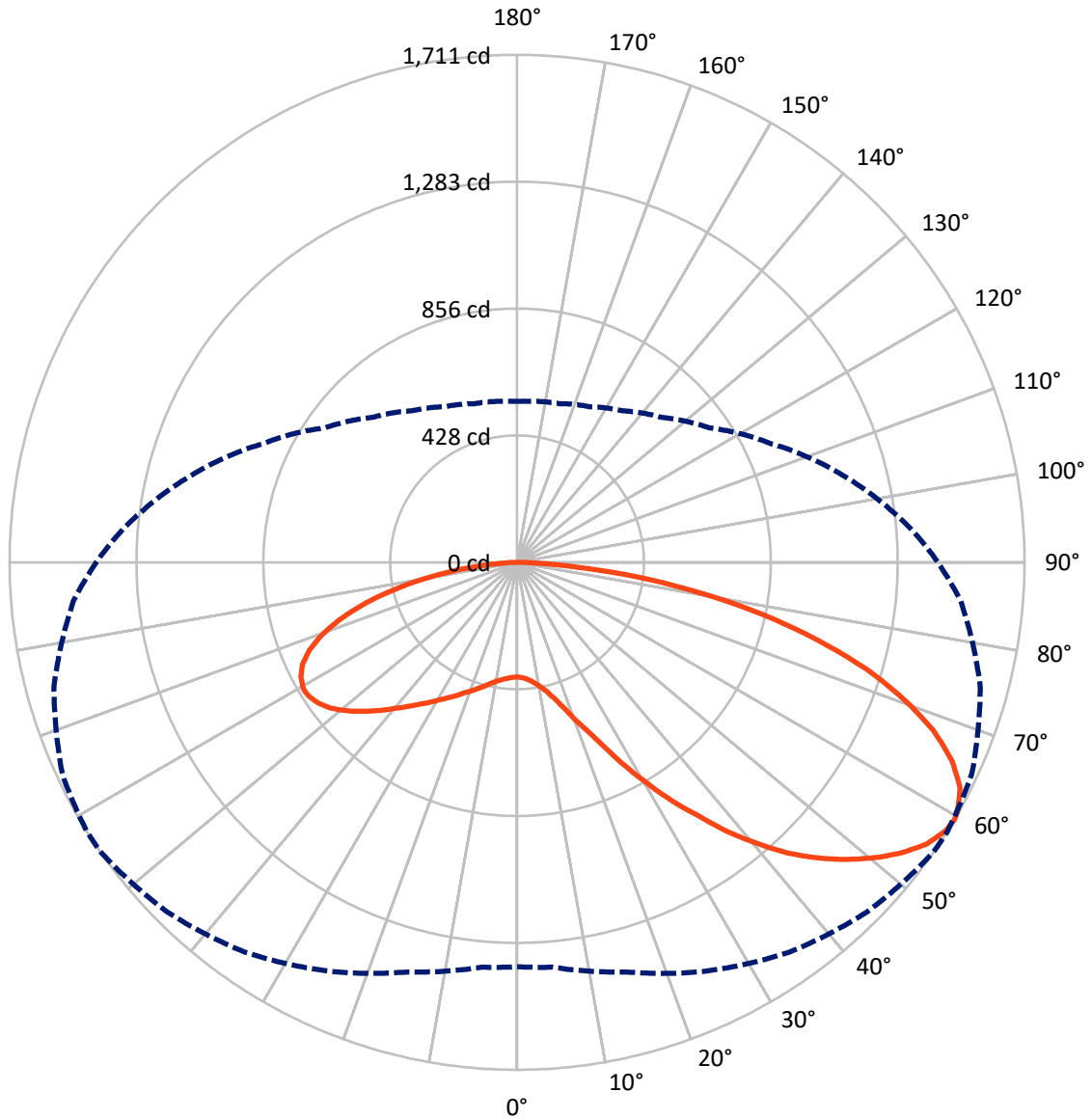
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 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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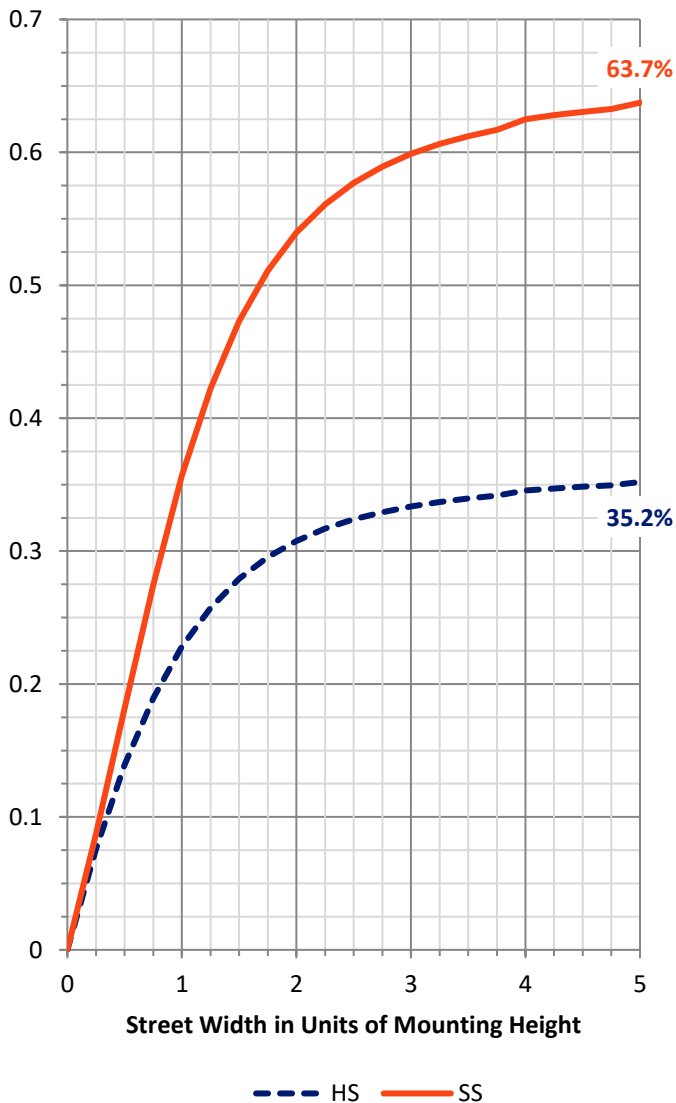
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1719.7	0.0	1719.7
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	3102.3	0.0	3102.3
	% Fixture	64.3	0.0	64.3
Total	Lumens	4822.0	0.0	4822.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	0.8
10°-20°	130.8	2.7
20°-30°	276.1	5.7
30°-40°	508.1	10.5
40°-50°	791.9	16.4
50°-60°	1040.6	21.6
60°-70°	1090.4	22.6
70°-80°	756.0	15.7
80°-90°	189.8	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°	4822.0	100.0
0°-180°	4822.0	100.0

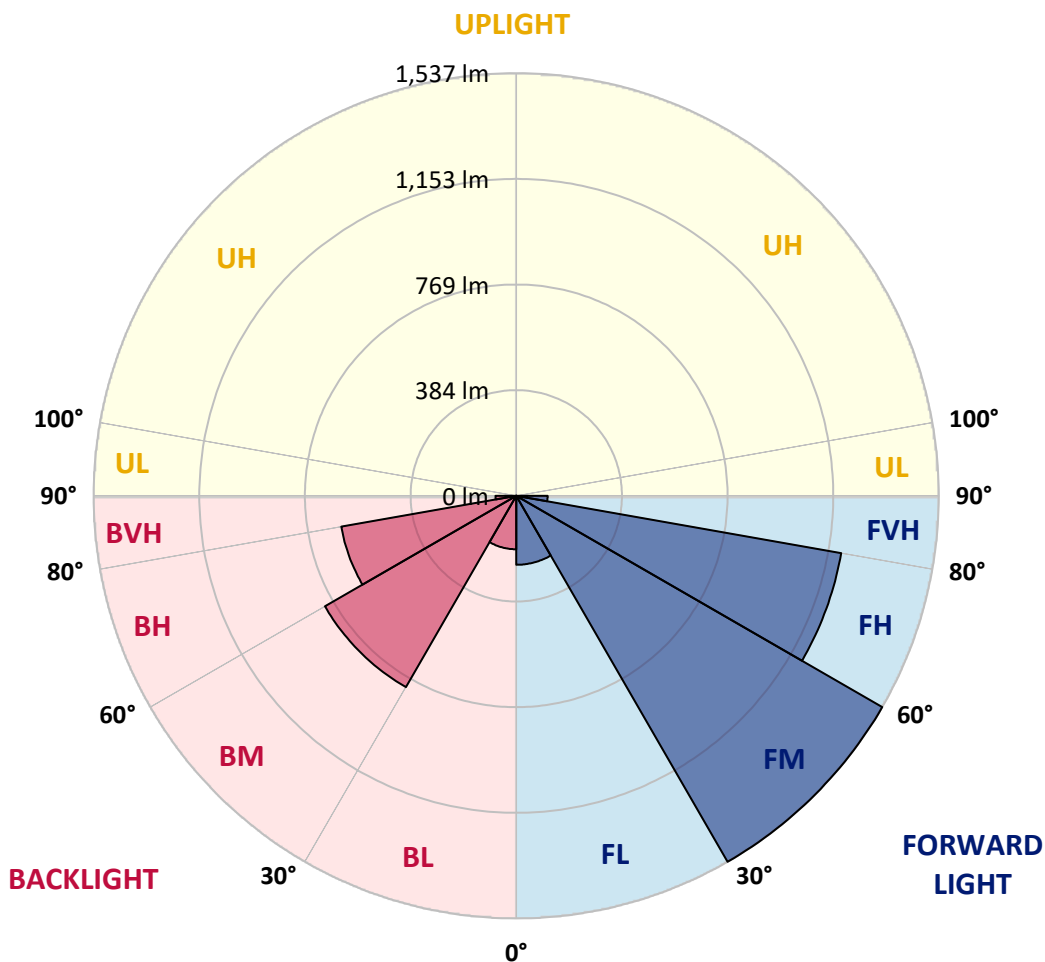


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	250.9	5.2			
FM (30°-60°)	1537.2	31.9			
FH (60°-80°)	1200.2	24.9			G1/1800
FVH (80°-90°)	114.1	2.4			G2/225
BL (0°-30°)	194.4	4.0	B1/500		
BM (30°-60°)	803.4	16.7	B1/1000		
BH (60°-80°)	646.2	13.4	B2/1000		G2/1000
BVH (80°-90°)	75.8	1.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	386.6	386.6	386.6	386.6	386.6	386.6	386.6	386.6	386.6	386.6	386.6
2.5°	392.0	392.0	392.0	390.9	390.9	390.9	389.8	389.8	389.8	388.7	387.6
5°	400.7	400.7	399.6	400.7	399.6	398.5	397.4	397.4	397.4	396.3	395.2
7.5°	412.6	413.7	412.6	413.7	412.6	411.5	409.4	409.4	408.3	406.1	403.9
10°	431.1	431.1	431.1	430.0	428.9	427.8	426.7	425.6	424.6	421.3	418.0
12.5°	453.9	453.9	453.9	451.7	451.7	449.5	448.5	447.4	445.2	440.8	436.5
15°	482.1	481.0	484.3	484.3	483.2	483.2	479.9	477.8	475.6	469.1	459.3
17.5°	520.1	519.0	522.3	524.5	524.5	525.5	520.1	517.9	510.3	501.7	488.6
20°	571.2	569.0	572.2	574.4	572.2	574.4	569.0	570.1	559.2	544.0	523.4
22.5°	626.5	626.5	629.8	629.8	630.9	633.0	626.5	623.3	614.6	592.9	566.8
25°	694.9	700.4	700.4	700.4	704.7	705.8	699.3	693.8	681.9	652.6	616.8
27.5°	778.5	777.5	776.4	782.9	782.9	785.1	780.7	778.5	764.4	728.6	674.3
30°	867.6	861.1	865.4	867.6	871.9	875.2	870.8	864.3	847.0	807.9	740.5
32.5°	949.0	953.4	959.9	962.1	968.6	969.7	958.8	958.8	941.4	891.5	822.0
35°	1041.3	1041.3	1058.7	1066.3	1066.3	1072.8	1056.5	1047.8	1035.9	983.8	895.8
37.5°	1121.7	1123.8	1138.0	1155.3	1157.5	1167.3	1155.3	1152.1	1130.4	1077.2	979.4
40°	1196.6	1198.8	1216.1	1236.8	1248.7	1263.9	1252.0	1246.5	1223.7	1162.9	1063.0
42.5°	1255.2	1259.6	1281.3	1311.7	1331.2	1349.7	1344.3	1341.0	1309.5	1245.5	1140.1
45°	1299.7	1307.3	1337.8	1373.6	1400.7	1427.9	1429.0	1422.4	1393.1	1321.5	1215.1
47.5°	1335.6	1344.3	1377.9	1423.5	1464.8	1498.5	1505.0	1497.4	1470.2	1395.3	1282.4
50°	1364.9	1369.2	1407.2	1465.9	1516.9	1559.3	1572.3	1565.8	1541.9	1457.2	1341.0
52.5°	1380.1	1386.6	1430.0	1497.4	1559.3	1610.3	1629.8	1626.6	1598.4	1513.7	1393.1
55°	1387.7	1394.2	1445.2	1522.3	1591.8	1651.6	1675.4	1676.5	1649.4	1564.7	1442.0
57.5°	1379.0	1387.7	1443.1	1528.9	1606.0	1670.0	1706.9	1705.9	1684.1	1603.8	1483.3
59°	1363.8	1370.3	1430.0	1520.2	1603.8	1667.8	1710.2	1711.3	1691.7	1616.8	1501.7
60°	1346.4	1354.0	1414.8	1509.3	1595.1	1660.2	1704.8	1706.9	1690.6	1620.1	1509.3
62.5°	1286.7	1296.5	1363.8	1464.8	1558.2	1620.1	1673.3	1676.5	1667.8	1611.4	1514.7
65°	1203.1	1211.8	1284.5	1392.0	1489.8	1553.8	1603.8	1611.4	1610.3	1572.3	1493.0
67.5°	1101.0	1102.1	1170.5	1287.8	1389.9	1452.9	1500.6	1513.7	1523.4	1498.5	1429.0
70°	978.3	977.3	1043.5	1159.7	1261.7	1328.0	1375.8	1384.4	1409.4	1389.9	1333.4
72.5°	826.3	839.4	901.2	999.0	1100.0	1173.8	1216.1	1232.4	1246.5	1250.9	1204.2
75°	683.0	697.1	746.0	837.2	924.0	992.5	1038.1	1045.7	1071.7	1078.2	1034.8
77.5°	546.2	547.3	583.1	655.8	735.1	791.6	828.5	848.0	862.2	875.2	829.6
80°	383.3	388.7	413.7	465.8	527.7	587.4	617.8	630.9	640.6	649.3	634.1
82.5°	240.0	242.1	258.4	289.9	332.3	365.9	397.4	408.3	410.4	430.0	427.8
85°	114.0	115.1	126.0	141.2	159.6	186.8	198.7	198.7	213.9	228.0	228.0
87.5°	15.2	15.2	18.5	20.6	26.1	33.7	46.7	47.8	56.5	63.0	68.4
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°	386.6	386.6	386.6	386.6	386.6	386.6	386.6	386.6	386.6	386.6	386.6
2.5°	387.6	387.6	387.6	387.6	387.6	386.6	387.6	387.6	387.6	387.6	387.6
5°	395.2	394.2	393.1	392.0	392.0	390.9	390.9	390.9	390.9	390.9	390.9
7.5°	402.8	401.8	400.7	398.5	397.4	396.3	396.3	395.2	395.2	395.2	395.2
10°	415.9	414.8	410.4	407.2	405.0	403.9	402.8	401.8	400.7	400.7	400.7
12.5°	433.2	431.1	423.5	419.1	415.9	413.7	411.5	410.4	409.4	408.3	408.3
15°	455.0	449.5	439.8	433.2	428.9	425.6	422.4	420.2	419.1	418.0	418.0
17.5°	481.0	474.5	461.5	449.5	441.9	436.5	432.2	428.9	427.8	427.8	427.8
20°	513.6	502.7	484.3	468.0	456.1	448.5	441.9	438.7	437.6	436.5	435.4
22.5°	551.6	537.5	510.3	485.4	470.2	459.3	451.7	447.4	444.1	443.0	443.0
25°	595.0	574.4	538.6	508.2	487.5	472.3	462.6	457.1	451.7	449.5	449.5
27.5°	647.2	620.0	572.2	532.1	503.8	485.4	474.5	466.9	461.5	457.1	455.0
30°	703.6	673.2	609.2	558.1	522.3	501.7	488.6	479.9	472.3	464.7	463.7
32.5°	775.3	731.9	653.7	587.4	544.0	517.9	502.7	491.9	482.1	474.5	472.3
35°	848.0	795.9	700.4	617.8	564.6	533.1	514.7	502.7	493.0	484.3	483.2
37.5°	923.0	867.6	751.4	653.7	588.5	550.5	527.7	514.7	502.7	494.1	493.0
40°	1001.1	936.0	803.5	690.6	613.5	567.9	541.8	525.5	512.5	504.9	503.8
42.5°	1075.0	1004.4	860.0	734.0	642.8	586.4	555.9	538.6	522.3	514.7	513.6
45°	1145.6	1069.5	916.4	774.2	672.1	605.9	570.1	549.4	532.1	524.5	523.4
47.5°	1209.6	1133.6	968.6	817.6	702.5	627.6	585.3	560.3	540.7	533.1	533.1
50°	1267.2	1187.9	1019.6	857.8	730.8	649.3	598.3	570.1	550.5	542.9	541.8
52.5°	1321.5	1235.7	1064.1	892.6	757.9	668.9	611.3	577.7	557.0	548.3	547.3
55°	1364.9	1279.1	1101.0	920.8	776.4	681.9	620.0	582.0	559.2	551.6	550.5
57.5°	1402.9	1314.9	1127.1	940.3	788.3	689.5	624.4	582.0	558.1	549.4	548.3
59°	1419.2	1330.2	1135.8	945.8	790.5	690.6	623.3	578.8	553.8	545.1	542.9
60°	1427.9	1336.7	1139.0	946.8	789.4	688.4	622.2	575.5	549.4	539.7	539.7
62.5°	1436.6	1342.1	1134.7	938.2	777.5	676.5	611.3	562.5	533.1	522.3	522.3
65°	1418.1	1322.5	1109.7	914.3	753.6	655.8	590.7	540.7	508.2	497.3	497.3
67.5°	1363.8	1274.8	1064.1	869.8	714.5	620.0	557.0	506.0	475.6	463.7	460.4
70°	1271.5	1196.6	992.5	805.7	661.3	574.4	514.7	465.8	434.3	422.4	418.0
72.5°	1147.7	1073.9	896.9	727.5	590.7	514.7	462.6	415.9	381.1	369.2	370.3
75°	977.3	925.1	773.1	628.7	509.3	438.7	395.2	356.2	326.8	317.1	318.2
77.5°	792.7	749.2	626.5	512.5	415.9	361.6	324.7	293.2	273.6	268.2	264.9
80°	607.0	564.6	470.2	382.2	316.0	278.0	253.0	231.3	216.1	208.5	210.7
82.5°	407.2	381.1	311.6	253.0	215.0	187.8	179.2	165.0	159.6	155.3	158.5
85°	219.3	196.5	162.9	135.7	118.4	110.8	112.9	111.8	107.5	106.4	109.7
87.5°	71.7	61.9	47.8	40.2	41.3	36.9	36.9	34.7	31.5	30.4	32.6
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)