

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: P472143

Luminaire Tested: **CCW-VA-3-727-U-T4W**

Issue Date: 01/27/2021

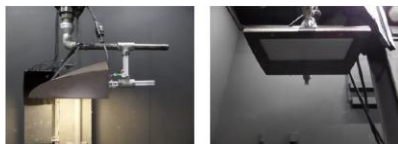
Test Information

Test Method: LM-79-08
Report Number: P472143
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-3-727-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: 4759 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

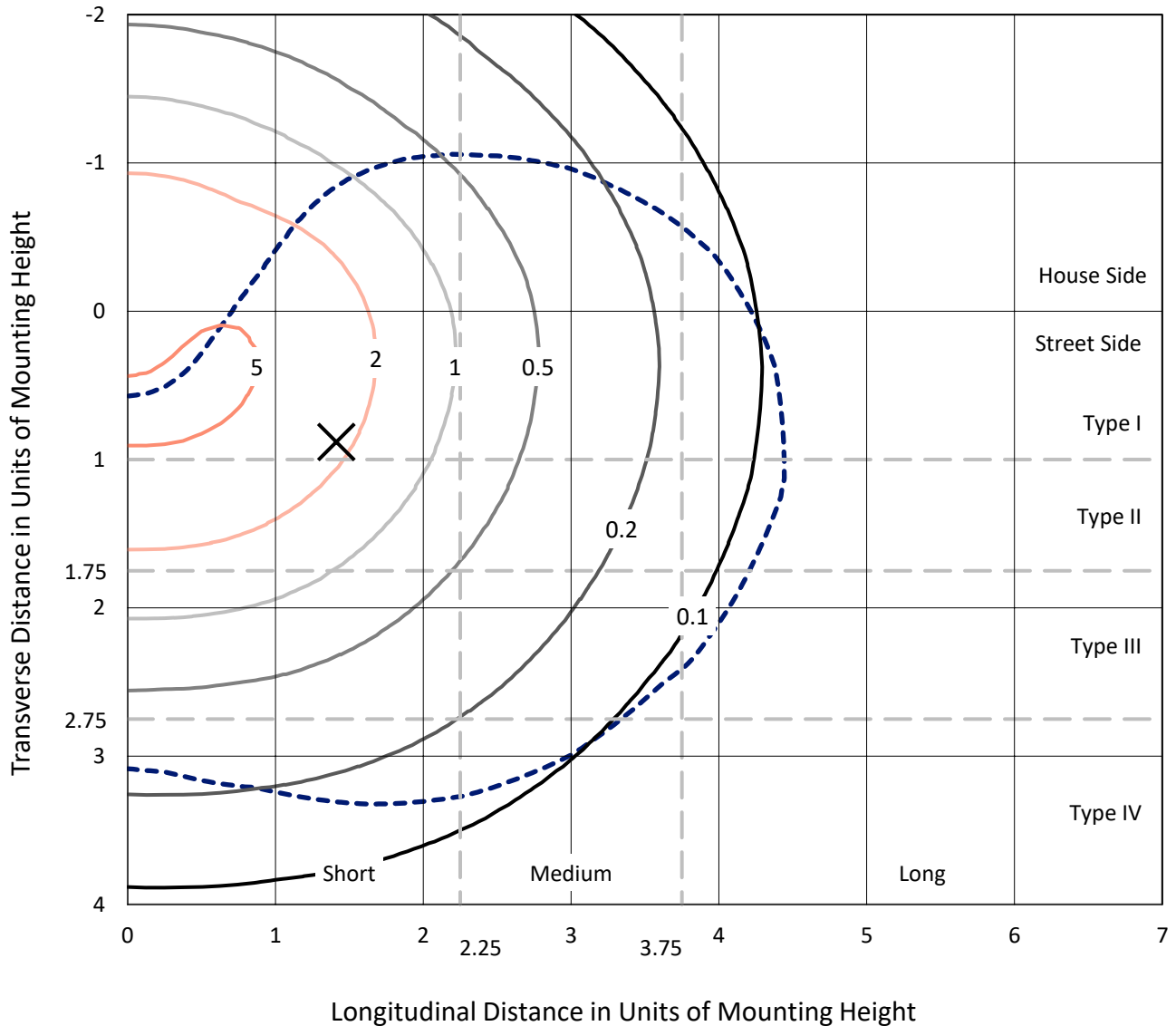
Input Watts (W): 46.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

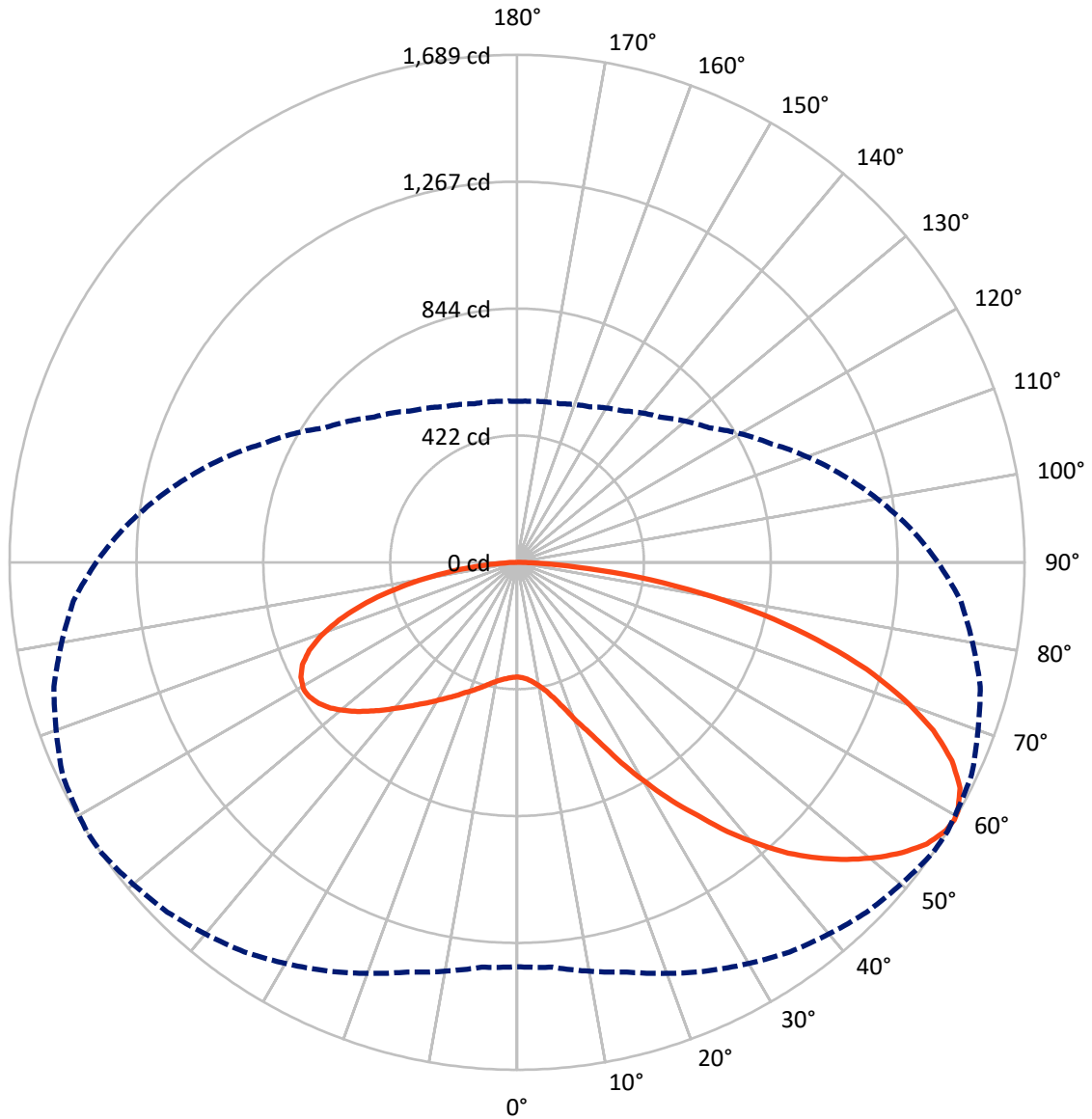
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 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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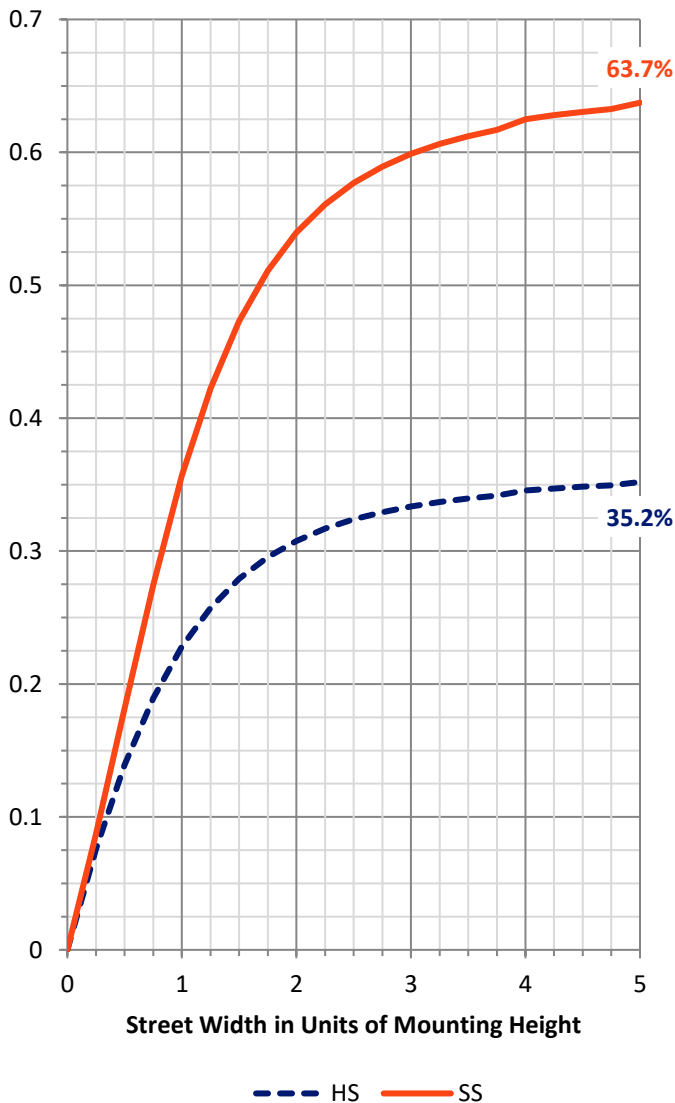
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1697.2	0.0	1697.2
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	3061.8	0.0	3061.8
	% Fixture	64.3	0.0	64.3
Total	Lumens	4759.0	0.0	4759.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	0.8
10°-20°	129.1	2.7
20°-30°	272.5	5.7
30°-40°	501.4	10.5
40°-50°	781.6	16.4
50°-60°	1027.0	21.6
60°-70°	1076.1	22.6
70°-80°	746.1	15.7
80°-90°	187.4	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°	4759.0	100.0
0°-180°	4759.0	100.0



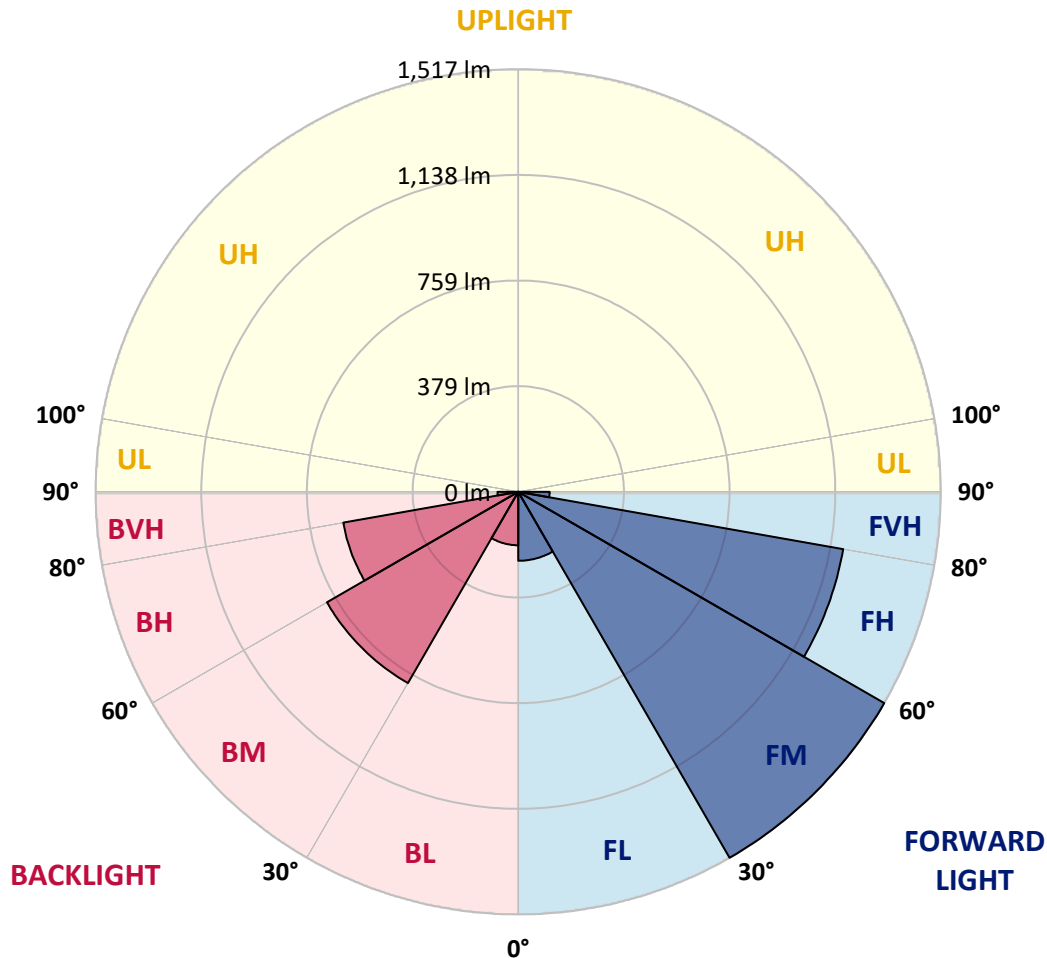
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	247.6	5.2			
FM (30°-60°)	1517.1	31.9			
FH (60°-80°)	1184.5	24.9			G1/1800
FVH (80°-90°)	112.6	2.4			G2/225
BL (0°-30°)	191.8	4.0	B1/500		
BM (30°-60°)	792.9	16.7	B1/1000		
BH (60°-80°)	637.7	13.4	B2/1000		G2/1000
BVH (80°-90°)	74.8	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°	381.5	381.5	381.5	381.5	381.5	381.5	381.5	381.5	381.5	381.5	381.5
2.5°	386.9	386.9	386.9	385.8	385.8	385.8	384.7	384.7	384.7	383.7	382.6
5°	395.4	395.4	394.4	395.4	394.4	393.3	392.2	392.2	392.2	391.2	390.1
7.5°	407.2	408.3	407.2	408.3	407.2	406.2	404.0	404.0	402.9	400.8	398.7
10°	425.4	425.4	425.4	424.4	423.3	422.2	421.2	420.1	419.0	415.8	412.6
12.5°	447.9	447.9	447.9	445.8	445.8	443.7	442.6	441.5	439.4	435.1	430.8
15°	475.8	474.7	478.0	478.0	476.9	476.9	473.7	471.5	469.4	463.0	453.3
17.5°	513.3	512.2	515.5	517.6	517.6	518.7	513.3	511.2	503.7	495.1	482.2
20°	563.7	561.5	564.8	566.9	564.8	566.9	561.5	562.6	551.9	536.9	516.5
22.5°	618.3	618.3	621.6	621.6	622.6	624.8	618.3	615.1	606.6	585.1	559.4
25°	685.9	691.2	691.2	691.2	695.5	696.6	690.1	684.8	673.0	644.1	608.7
27.5°	768.4	767.3	766.2	772.7	772.7	774.8	770.5	768.4	754.4	719.1	665.5
30°	856.2	849.8	854.1	856.2	860.5	863.7	859.5	853.0	835.9	797.3	730.9
32.5°	936.6	940.9	947.3	949.5	955.9	957.0	946.3	946.3	929.1	879.8	811.2
35°	1027.7	1027.7	1044.9	1052.4	1052.4	1058.8	1042.7	1034.1	1022.4	970.9	884.1
37.5°	1107.0	1109.2	1123.1	1140.2	1142.4	1152.0	1140.2	1137.0	1115.6	1063.1	966.6
40°	1181.0	1183.1	1200.2	1220.6	1232.4	1247.4	1235.6	1230.3	1207.7	1147.7	1049.1
42.5°	1238.8	1243.1	1264.5	1294.6	1313.8	1332.1	1326.7	1323.5	1292.4	1229.2	1125.2
45°	1282.8	1290.3	1320.3	1355.6	1382.4	1409.2	1410.3	1403.9	1374.9	1304.2	1199.2
47.5°	1318.1	1326.7	1359.9	1404.9	1445.7	1478.9	1485.3	1477.8	1451.0	1377.1	1265.6
50°	1347.1	1351.4	1388.9	1446.7	1497.1	1538.9	1551.7	1545.3	1521.7	1438.2	1323.5
52.5°	1362.1	1368.5	1411.4	1477.8	1538.9	1589.3	1608.5	1605.3	1577.5	1493.9	1374.9
55°	1369.6	1376.0	1426.4	1502.5	1571.0	1630.0	1653.6	1654.6	1627.8	1544.2	1423.2
57.5°	1361.0	1369.6	1424.2	1508.9	1585.0	1648.2	1684.6	1683.6	1662.1	1582.8	1463.9
59°	1346.0	1352.4	1411.4	1500.3	1582.8	1646.1	1687.8	1688.9	1669.6	1595.7	1482.1
60°	1328.8	1336.3	1396.4	1489.6	1574.3	1638.6	1682.5	1684.6	1668.6	1598.9	1489.6
62.5°	1269.9	1279.6	1346.0	1445.7	1537.8	1598.9	1651.4	1654.6	1646.1	1590.3	1495.0
65°	1187.4	1196.0	1267.8	1373.9	1470.3	1533.5	1582.8	1590.3	1589.3	1551.7	1473.5
67.5°	1086.7	1087.7	1155.2	1271.0	1371.7	1433.9	1481.0	1493.9	1503.5	1478.9	1410.3
70°	965.6	964.5	1029.9	1144.5	1245.3	1310.6	1357.8	1366.4	1391.0	1371.7	1316.0
72.5°	815.5	828.4	889.5	985.9	1085.6	1158.5	1200.2	1216.3	1230.3	1234.5	1188.5
75°	674.1	688.0	736.2	826.2	912.0	979.5	1024.5	1032.0	1057.7	1064.1	1021.3
77.5°	539.0	540.1	575.5	647.3	725.5	781.2	817.7	837.0	850.9	863.7	818.7
80°	378.3	383.7	408.3	459.7	520.8	579.8	609.8	622.6	632.3	640.8	625.8
82.5°	236.8	239.0	255.1	286.1	327.9	361.1	392.2	402.9	405.1	424.4	422.2
85°	112.5	113.6	124.3	139.3	157.5	184.3	196.1	196.1	211.1	225.0	225.0
87.5°	15.0	15.0	18.2	20.4	25.7	33.2	46.1	47.2	55.7	62.2	67.5
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°	381.5	381.5	381.5	381.5	381.5	381.5	381.5	381.5	381.5	381.5	381.5
2.5°	382.6	382.6	382.6	382.6	382.6	381.5	382.6	382.6	382.6	382.6	382.6
5°	390.1	389.0	387.9	386.9	386.9	385.8	385.8	385.8	385.8	385.8	385.8
7.5°	397.6	396.5	395.4	393.3	392.2	391.2	391.2	390.1	390.1	390.1	390.1
10°	410.4	409.4	405.1	401.9	399.7	398.7	397.6	396.5	395.4	395.4	395.4
12.5°	427.6	425.4	417.9	413.7	410.4	408.3	406.2	405.1	404.0	402.9	402.9
15°	449.0	443.7	434.0	427.6	423.3	420.1	416.9	414.7	413.7	412.6	412.6
17.5°	474.7	468.3	455.5	443.7	436.2	430.8	426.5	423.3	422.2	422.2	422.2
20°	506.9	496.2	478.0	461.9	450.1	442.6	436.2	432.9	431.9	430.8	429.7
22.5°	544.4	530.5	503.7	479.0	464.0	453.3	445.8	441.5	438.3	437.2	437.2
25°	587.3	566.9	531.5	501.5	481.2	466.2	456.5	451.2	445.8	443.7	443.7
27.5°	638.7	611.9	564.8	525.1	497.2	479.0	468.3	460.8	455.5	451.2	449.0
30°	694.4	664.4	601.2	550.8	515.5	495.1	482.2	473.7	466.2	458.7	457.6
32.5°	765.2	722.3	645.1	579.8	536.9	511.2	496.2	485.5	475.8	468.3	466.2
35°	837.0	785.5	691.2	609.8	557.3	526.2	508.0	496.2	486.5	478.0	476.9
37.5°	910.9	856.2	741.6	645.1	580.8	543.3	520.8	508.0	496.2	487.6	486.5
40°	988.1	923.8	793.0	681.6	605.5	560.5	534.8	518.7	505.8	498.3	497.2
42.5°	1060.9	991.3	848.7	724.4	634.4	578.7	548.7	531.5	515.5	508.0	506.9
45°	1130.6	1055.6	904.5	764.1	663.4	598.0	562.6	542.3	525.1	517.6	516.5
47.5°	1193.8	1118.8	955.9	807.0	693.4	619.4	577.6	553.0	533.7	526.2	526.2
50°	1250.6	1172.4	1006.3	846.6	721.2	640.8	590.5	562.6	543.3	535.8	534.8
52.5°	1304.2	1219.5	1050.2	880.9	748.0	660.1	603.3	570.1	549.8	541.2	540.1
55°	1347.1	1262.4	1086.7	908.8	766.2	673.0	611.9	574.4	551.9	544.4	543.3
57.5°	1384.6	1297.8	1112.4	928.0	778.0	680.5	616.2	574.4	550.8	542.3	541.2
59°	1400.6	1312.8	1120.9	933.4	780.2	681.6	615.1	571.2	546.5	538.0	535.8
60°	1409.2	1319.2	1124.2	934.5	779.1	679.4	614.1	568.0	542.3	532.6	532.6
62.5°	1417.8	1324.6	1119.9	925.9	767.3	667.6	603.3	555.1	526.2	515.5	515.5
65°	1399.6	1305.3	1095.2	902.3	743.7	647.3	583.0	533.7	501.5	490.8	490.8
67.5°	1346.0	1258.1	1050.2	858.4	705.1	611.9	549.8	499.4	469.4	457.6	454.4
70°	1254.9	1181.0	979.5	795.2	652.6	566.9	508.0	459.7	428.7	416.9	412.6
72.5°	1132.7	1059.9	885.2	718.0	583.0	508.0	456.5	410.4	376.1	364.4	365.4
75°	964.5	913.0	763.0	620.5	502.6	432.9	390.1	351.5	322.6	312.9	314.0
77.5°	782.3	739.4	618.3	505.8	410.4	356.9	320.4	289.3	270.1	264.7	261.5
80°	599.1	557.3	464.0	377.2	311.9	274.3	249.7	228.3	213.3	205.8	207.9
82.5°	401.9	376.1	307.6	249.7	212.2	185.4	176.8	162.9	157.5	153.2	156.5
85°	216.5	194.0	160.7	134.0	116.8	109.3	111.5	110.4	106.1	105.0	108.2
87.5°	70.7	61.1	47.2	39.7	40.7	36.4	36.4	34.3	31.1	30.0	32.1
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)