

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: P472262

Luminaire Tested: **CCW-VA-2-727-U-T4FT**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472262
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-2-727-U-T4FT
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4FT DISTRIBUTION LENS
Light Source: 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4117.5 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

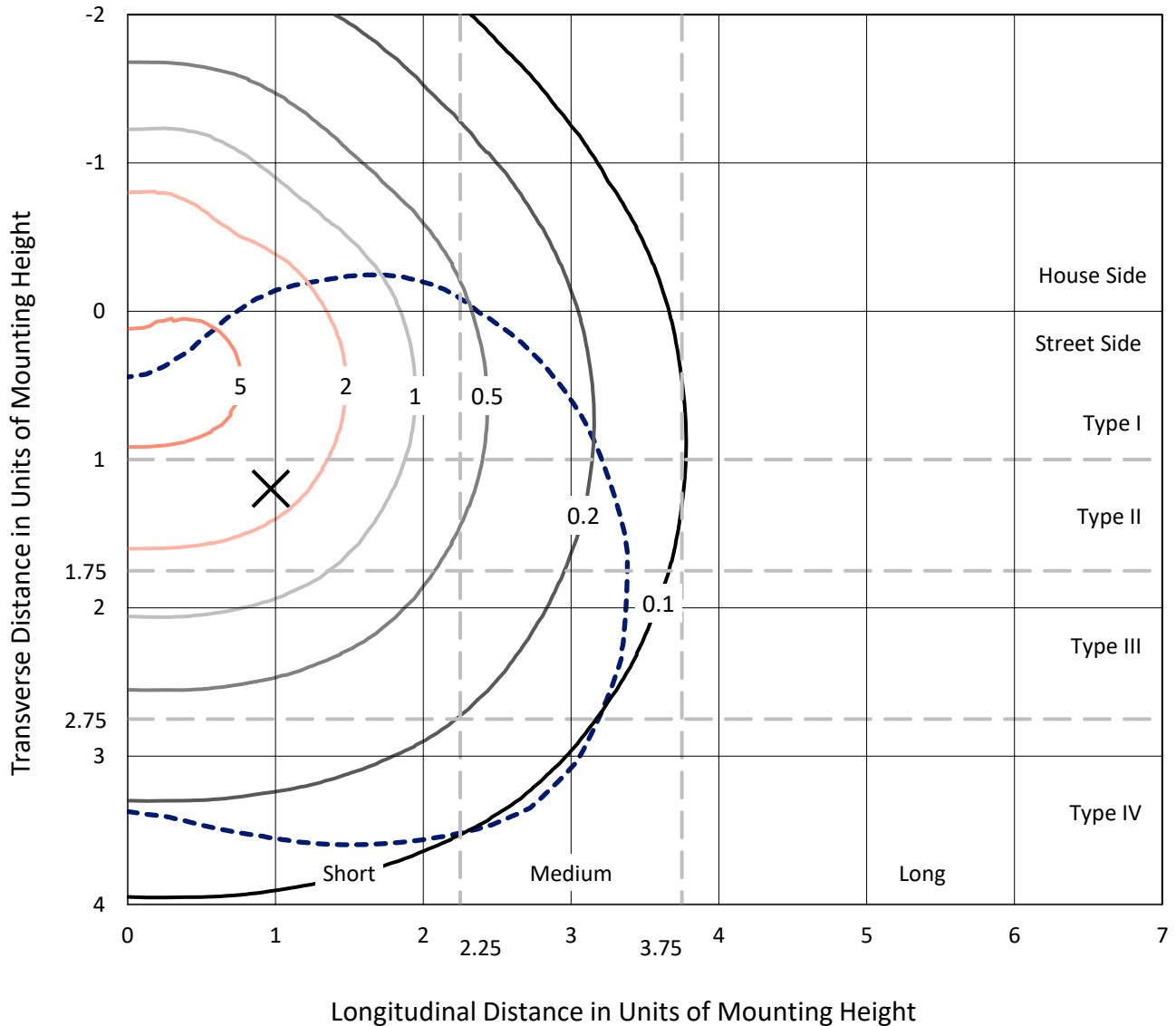
Input Watts (W): 40.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

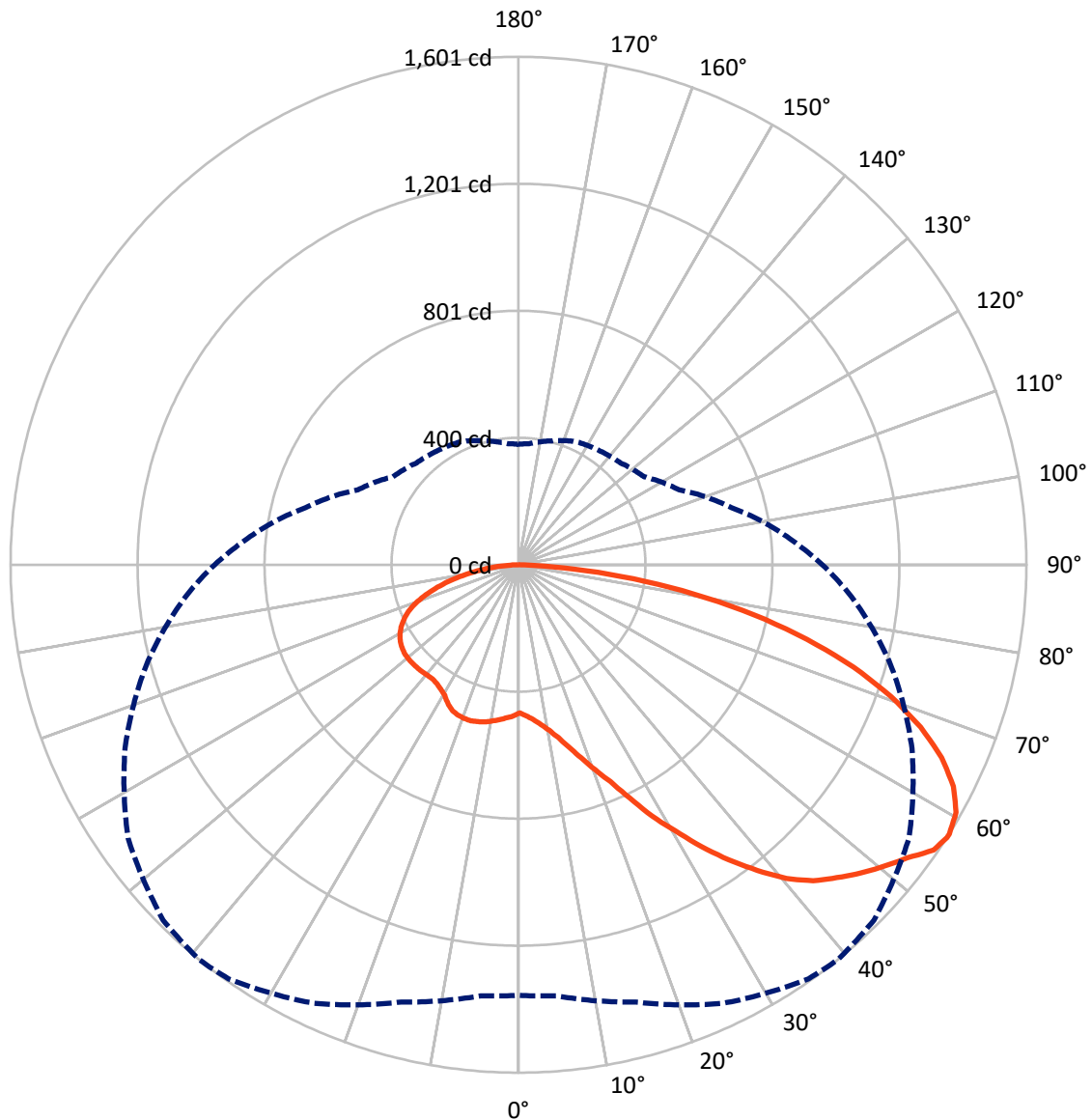
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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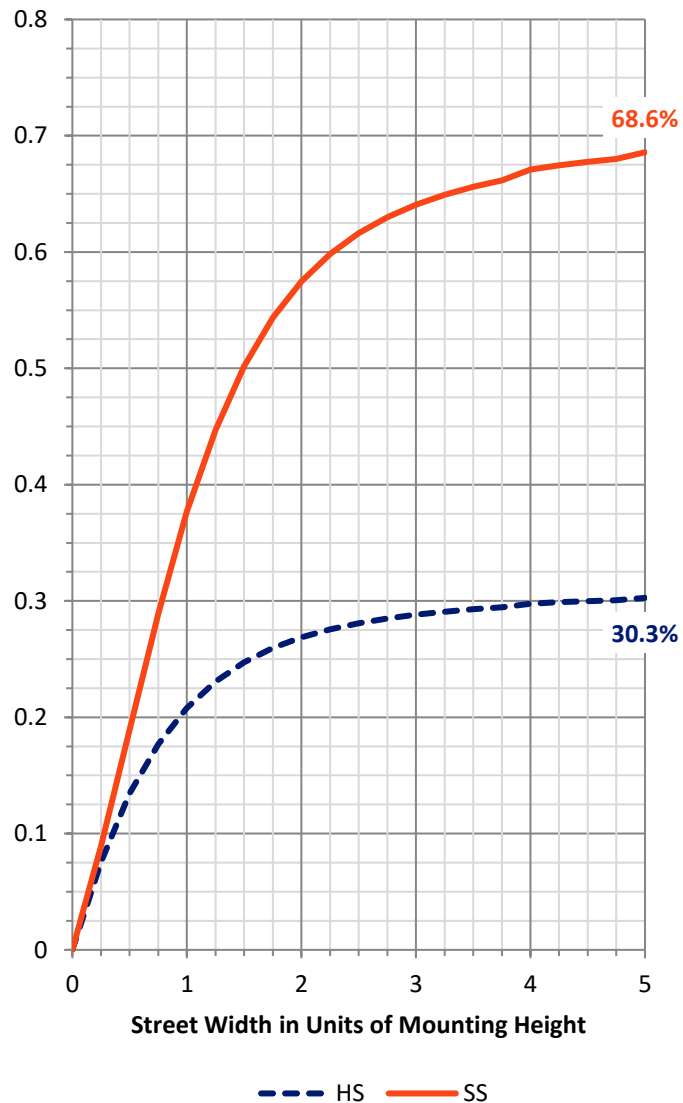
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1263.4	0.0	1263.4
	% Fixture	30.7	0.0	30.7
Street Side	Lumens	2854.1	0.0	2854.1
	% Fixture	69.3	0.0	69.3
Total	Lumens	4117.5	0.0	4117.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.3	1.1
10°-20°	157.7	3.8
20°-30°	304.6	7.4
30°-40°	492.6	12.0
40°-50°	692.1	16.8
50°-60°	855.0	20.8
60°-70°	849.8	20.6
70°-80°	575.0	14.0
80°-90°	143.5	3.5
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°	4117.5	100.0
0°-180°	4117.5	100.0

Coefficient of Utilization



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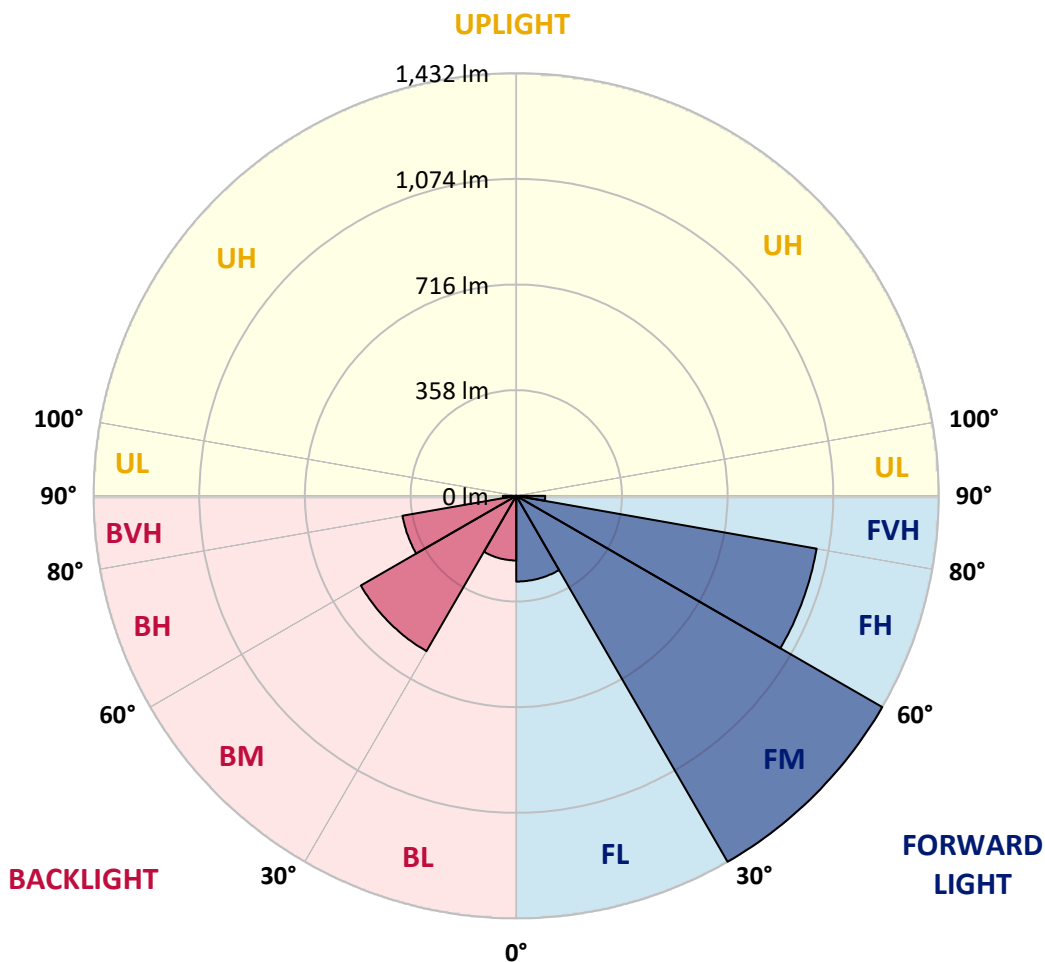
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	290.5	7.1			
FM (30°-60°)	1431.9	34.8			
FH (60°-80°)	1033.5	25.1			G1/1800
FVH (80°-90°)	98.2	2.4			G1/100
BL (0°-30°)	219.0	5.3	B1/500		
BM (30°-60°)	607.9	14.8	B1/1000		
BH (60°-80°)	391.3	9.5	B1/500		G1/500
BVH (80°-90°)	45.3	1.1			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°	39°	45°	55°	65°	75°	85°
0°	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9
2.5°	480.8	480.2	479.5	479.5	478.3	477.0	476.4	475.1	475.7	477.0	477.6
5°	494.7	493.4	493.4	492.1	490.2	490.2	488.4	485.8	485.2	484.6	484.6
7.5°	516.1	514.2	514.9	513.0	511.1	508.5	505.4	502.2	501.0	496.6	492.8
10°	540.7	540.1	538.2	535.0	533.2	530.6	527.5	521.8	517.4	512.3	509.2
12.5°	569.7	568.5	569.1	566.6	563.4	559.0	554.0	548.3	540.1	530.6	524.3
15°	607.6	605.1	605.1	604.4	598.1	596.9	591.8	579.2	567.9	555.2	540.7
17.5°	653.7	653.0	650.5	648.0	644.2	639.8	634.7	620.9	603.8	584.3	564.7
20°	702.9	701.6	703.5	699.7	692.2	690.3	682.1	666.3	645.5	622.7	593.1
22.5°	756.5	757.8	757.8	756.5	750.2	742.6	735.7	714.9	690.9	663.1	628.4
25°	821.5	822.1	825.9	829.7	825.9	813.9	804.5	772.3	740.1	704.8	663.8
27.5°	894.7	890.3	901.0	907.9	901.0	897.8	877.0	841.7	797.5	753.4	702.2
30°	965.4	965.4	974.2	984.3	979.9	972.3	955.3	909.8	859.4	803.2	741.4
32.5°	1031.0	1038.5	1042.3	1065.7	1063.1	1059.4	1039.8	979.9	916.8	853.0	779.2
35°	1108.6	1106.1	1121.8	1136.3	1147.7	1142.6	1128.1	1067.6	984.9	905.4	820.9
37.5°	1167.3	1172.3	1186.2	1212.1	1220.3	1222.8	1204.5	1142.0	1048.0	961.6	866.9
40°	1212.1	1215.8	1242.3	1275.1	1292.2	1301.0	1282.7	1207.0	1107.3	1006.4	902.9
42.5°	1248.0	1250.5	1278.3	1325.0	1353.4	1362.2	1345.8	1265.7	1157.8	1042.3	932.5
45°	1272.0	1276.4	1309.2	1357.2	1401.3	1407.6	1399.4	1317.4	1202.6	1076.4	954.0
47.5°	1292.8	1297.9	1334.5	1395.0	1444.2	1452.4	1444.9	1362.8	1245.5	1107.3	972.3
50°	1320.6	1326.3	1362.8	1430.4	1484.6	1494.1	1491.6	1410.8	1285.9	1142.0	991.2
52.5°	1347.1	1351.5	1395.0	1470.1	1528.8	1535.1	1533.2	1455.6	1326.9	1179.2	1015.2
55°	1367.9	1372.9	1424.7	1517.4	1580.5	1587.5	1574.2	1490.3	1359.1	1206.4	1037.9
57°	1357.2	1364.1	1427.2	1525.6	1593.8	1601.3	1584.3	1502.9	1368.5	1213.9	1046.1
57.5°	1354.0	1359.1	1424.7	1525.0	1594.4	1601.3	1584.3	1502.3	1367.9	1213.3	1046.1
60°	1308.0	1319.9	1393.8	1502.3	1576.1	1584.9	1568.5	1477.1	1352.1	1195.6	1029.1
62.5°	1246.1	1262.5	1340.1	1448.7	1531.9	1538.3	1521.8	1434.8	1316.8	1158.4	993.7
65°	1157.2	1182.4	1263.8	1368.5	1458.8	1466.3	1449.9	1364.1	1258.1	1101.6	940.7
67.5°	1070.1	1085.2	1172.3	1272.0	1355.9	1367.3	1353.4	1277.0	1177.3	1025.9	870.1
70°	971.0	981.8	1053.7	1151.5	1236.0	1245.5	1233.5	1162.2	1068.2	931.9	787.4
72.5°	851.8	863.1	924.3	1014.6	1089.6	1104.8	1096.6	1022.8	937.6	819.6	695.3
75°	717.4	730.0	784.9	856.8	930.0	938.9	929.4	875.1	798.1	691.5	583.0
77.5°	581.7	589.9	629.7	683.9	740.7	759.7	757.1	718.7	641.0	556.5	468.2
80°	435.4	436.6	457.4	502.2	547.7	561.5	564.7	530.0	478.9	415.2	350.8
82.5°	275.1	279.5	290.9	324.3	346.4	365.3	369.7	349.5	317.4	277.6	237.9
85°	128.1	124.3	133.1	144.5	176.0	176.0	181.7	171.0	161.5	148.3	123.0
87.5°	10.7	10.1	10.1	10.7	17.0	18.3	29.0	32.2	34.7	34.7	36.6
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°	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9
2.5°	476.4	475.7	473.8	473.8	475.1	477.0	477.6	478.3	478.9	479.5	479.5
5°	483.9	483.3	482.0	480.8	482.0	482.7	484.6	485.8	485.8	487.1	486.5
7.5°	490.9	491.5	490.2	489.6	489.6	490.9	493.4	495.3	496.6	497.2	498.4
10°	506.7	502.9	497.8	495.3	495.3	497.8	500.3	502.9	505.4	506.7	506.7
12.5°	520.5	516.1	506.7	502.9	502.2	504.8	507.9	511.7	513.6	515.5	515.5
15°	533.2	529.4	518.0	509.2	506.7	508.5	512.3	516.7	519.9	521.8	521.8
17.5°	557.1	545.8	530.6	516.1	511.1	511.7	516.1	520.5	524.3	525.6	524.9
20°	579.8	565.3	542.6	521.8	513.6	511.1	515.5	521.2	524.3	526.2	526.2
22.5°	605.7	589.9	554.6	527.5	512.3	508.5	512.3	517.4	521.2	522.4	523.7
25°	642.3	614.5	567.9	531.9	510.4	502.9	505.4	510.4	514.9	515.5	514.9
27.5°	675.1	643.6	585.5	536.3	506.0	492.1	489.6	493.4	500.3	504.8	506.0
30°	703.5	674.5	603.8	540.1	497.8	474.5	471.3	472.6	477.0	489.0	489.6
32.5°	745.8	701.0	622.1	543.2	488.4	465.0	460.6	459.3	460.6	466.9	466.9
35°	774.8	730.6	640.4	548.9	481.4	457.4	453.0	451.1	449.9	443.6	441.7
37.5°	812.7	763.4	658.1	554.0	478.3	454.3	448.0	449.2	442.9	425.3	420.2
40°	854.3	793.1	675.7	559.0	479.5	454.9	449.2	448.6	437.9	413.3	408.2
42.5°	874.5	818.3	694.0	566.0	484.6	456.8	451.8	449.9	436.6	408.9	401.9
45°	894.1	836.6	707.3	571.6	489.6	459.3	453.0	451.1	436.0	405.1	400.0
47.5°	911.7	848.0	713.6	574.8	493.4	461.2	453.7	450.5	432.8	403.2	398.1
50°	919.9	854.3	713.6	574.8	494.7	463.1	452.4	448.0	427.8	400.0	395.6
52.5°	932.5	858.1	707.9	571.0	492.8	463.1	449.9	442.9	421.5	395.6	391.8
55°	951.5	865.0	700.4	565.3	488.4	459.3	445.4	436.0	412.6	389.3	386.1
57°	957.8	867.6	695.3	558.4	483.3	454.3	440.4	428.4	404.4	383.0	379.8
57.5°	956.5	866.3	693.4	556.5	481.4	452.4	439.1	426.5	402.5	381.7	378.6
60°	939.5	854.3	681.4	544.5	471.3	442.3	427.8	413.9	389.3	371.0	368.5
62.5°	911.7	827.2	660.0	528.7	457.4	428.4	413.3	397.5	372.9	357.1	355.9
65°	864.4	781.7	629.1	506.0	439.8	410.1	393.7	376.7	355.2	341.3	337.6
67.5°	785.5	721.2	585.5	474.5	412.6	387.4	369.7	352.1	332.5	320.5	318.0
70°	719.9	654.9	530.0	434.7	379.8	355.9	339.5	322.4	305.4	294.7	294.0
72.5°	636.6	574.2	460.6	385.5	338.2	314.8	302.2	287.1	273.8	264.4	264.4
75°	535.7	486.5	388.7	326.8	288.3	271.3	260.6	248.6	237.2	230.9	232.2
77.5°	425.9	388.7	317.4	264.4	236.0	224.6	214.5	207.6	200.6	195.0	195.6
80°	314.2	286.5	233.5	194.3	180.5	170.4	168.5	164.0	160.3	158.4	155.2
82.5°	215.2	190.5	155.2	133.1	123.0	119.9	120.5	120.5	121.1	121.1	119.9
85°	111.7	102.2	78.9	71.3	70.0	73.2	77.0	79.5	78.9	78.9	77.0
87.5°	32.2	29.0	25.2	22.7	24.0	25.9	22.7	22.1	21.5	20.8	20.8
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)