

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: P472291

Luminaire Tested: **CCW-VA-3-830-U-T4FT**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472291
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-3-830-U-T4FT
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4FT DISTRIBUTION LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4800.5 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

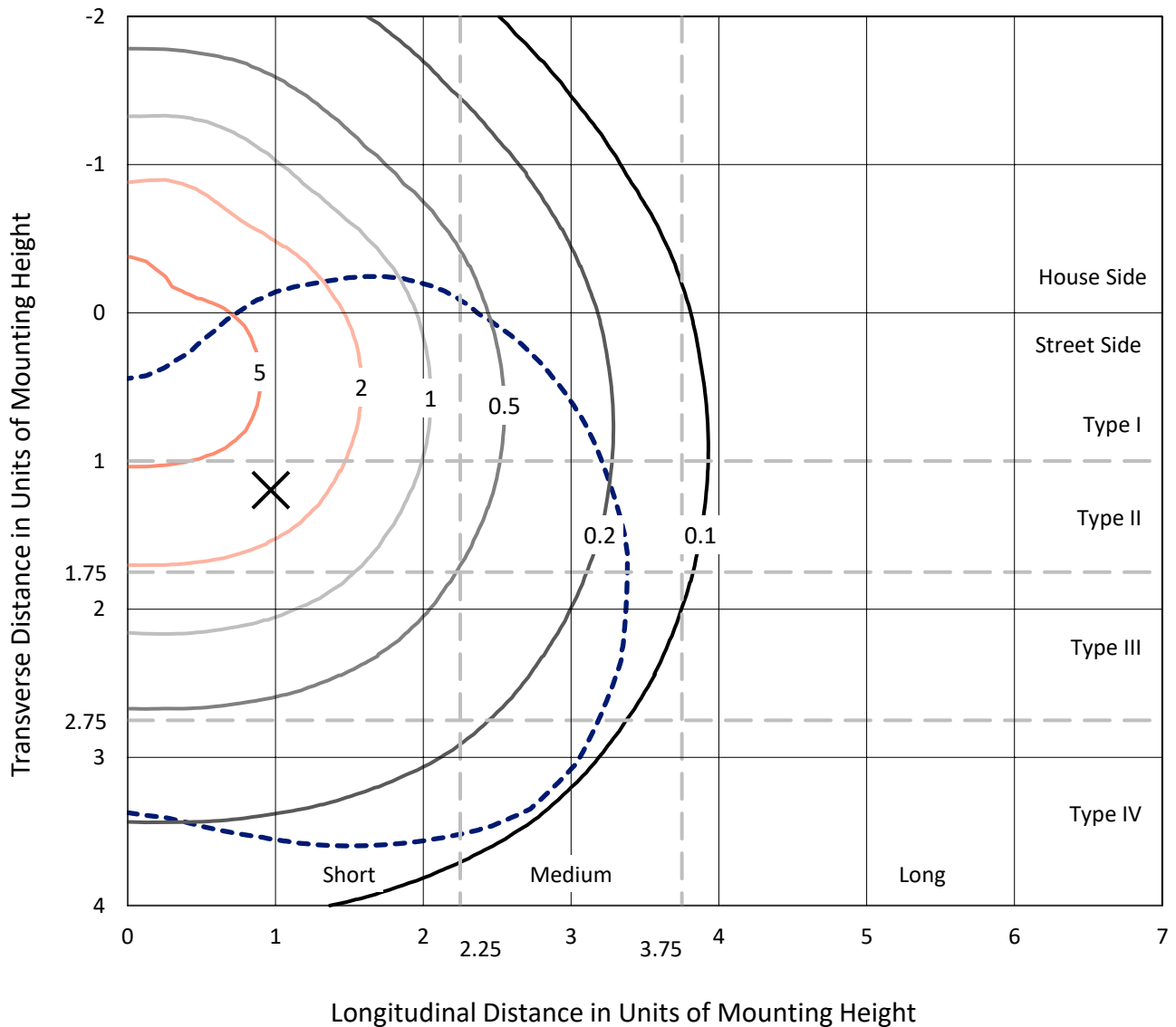
Input Watts (W): 49.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

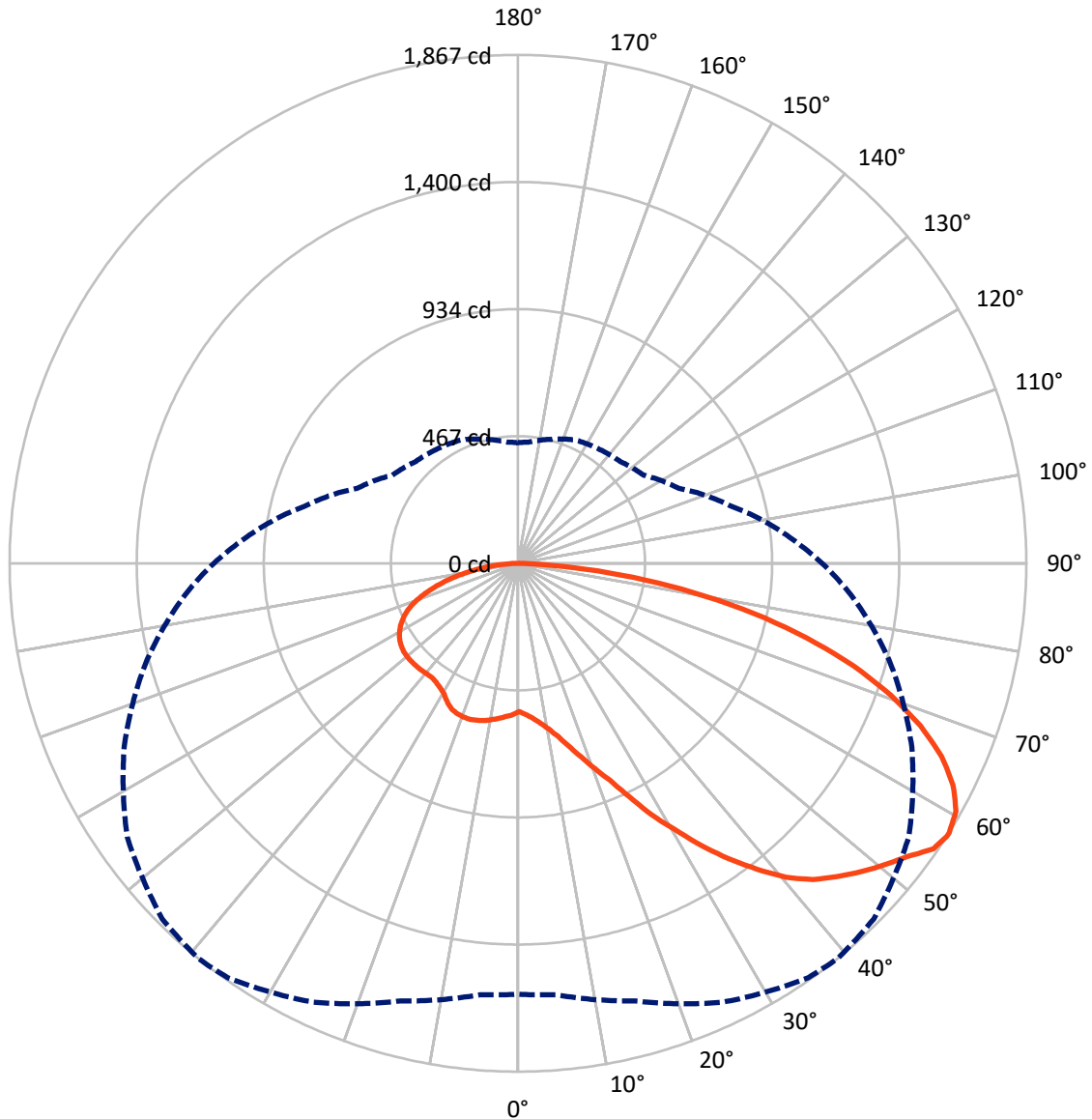
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 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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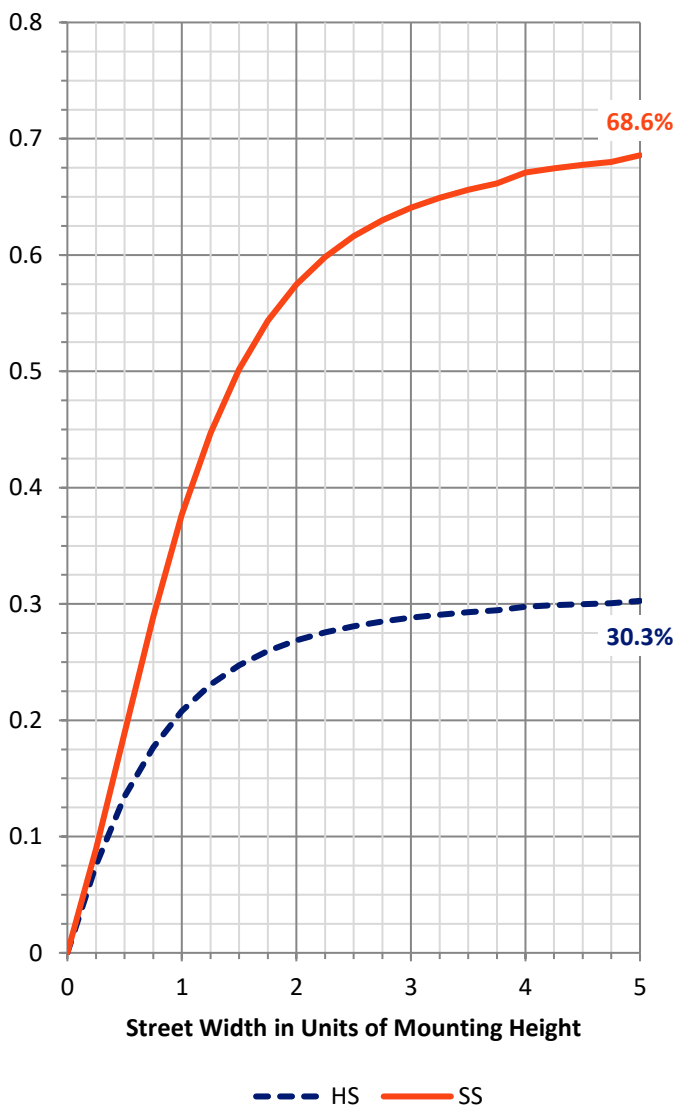
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1473.0	0.0	1473.0
	% Fixture	30.7	0.0	30.7
Street Side	Lumens	3327.6	0.0	3327.6
	% Fixture	69.3	0.0	69.3
Total	Lumens	4800.5	0.0	4800.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	1.1
10°-20°	183.8	3.8
20°-30°	355.1	7.4
30°-40°	574.4	12.0
40°-50°	806.9	16.8
50°-60°	996.8	20.8
60°-70°	990.7	20.6
70°-80°	670.4	14.0
80°-90°	167.3	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°	4800.5	100.0
0°-180°	4800.5	100.0

Coefficient of Utilization



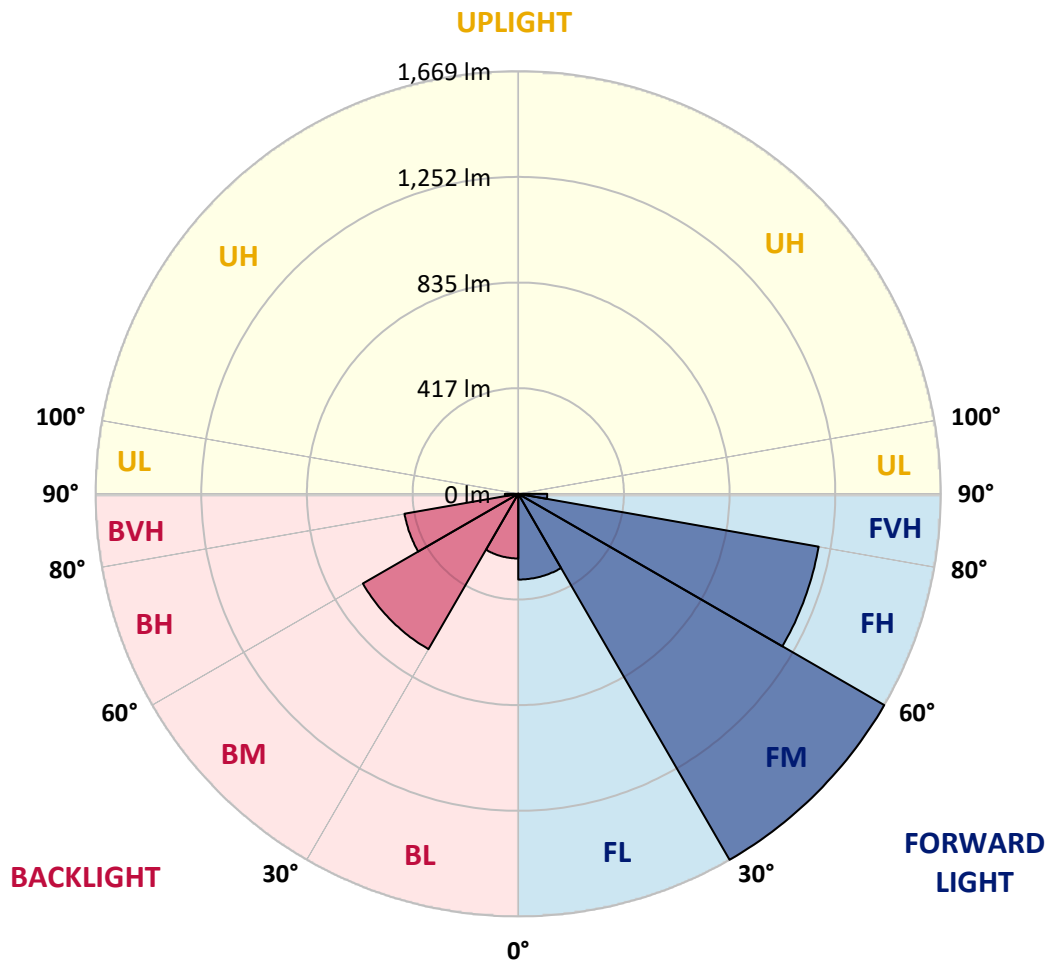
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	338.7	7.1			
FM (30°-60°)	1669.4	34.8			
FH (60°-80°)	1205.0	25.1			G1/1800
FVH (80°-90°)	114.5	2.4			G2/225
BL (0°-30°)	255.3	5.3	B1/500		
BM (30°-60°)	708.7	14.8	B1/1000		
BH (60°-80°)	456.2	9.5	B1/500		G1/500
BVH (80°-90°)	52.8	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4
2.5°	560.5	559.8	559.1	559.1	557.6	556.1	555.4	553.9	554.7	556.1	556.9
5°	576.7	575.3	575.3	573.8	571.6	571.6	569.4	566.4	565.7	565.0	565.0
7.5°	601.7	599.5	600.3	598.1	595.8	592.9	589.2	585.6	584.1	578.9	574.5
10°	630.4	629.7	627.5	623.8	621.6	618.7	615.0	608.4	603.2	597.3	593.6
12.5°	664.3	662.8	663.5	660.6	656.9	651.8	645.9	639.3	629.7	618.7	611.3
15°	708.4	705.5	705.5	704.7	697.4	695.9	690.0	675.3	662.1	647.3	630.4
17.5°	762.1	761.4	758.4	755.5	751.1	745.9	740.0	723.8	704.0	681.2	658.4
20°	819.5	818.0	820.2	815.8	807.0	804.8	795.2	776.8	752.5	726.1	691.5
22.5°	882.0	883.5	883.5	882.0	874.6	865.8	857.7	833.5	805.5	773.1	732.7
25°	957.8	958.5	962.9	967.3	962.9	948.9	937.9	900.4	862.9	821.7	773.9
27.5°	1043.1	1038.0	1050.5	1058.6	1050.5	1046.8	1022.5	981.3	929.8	878.3	818.7
30°	1125.5	1125.5	1135.8	1147.6	1142.4	1133.6	1113.7	1060.8	1001.9	936.4	864.3
32.5°	1202.0	1210.8	1215.2	1242.5	1239.5	1235.1	1212.3	1142.4	1068.9	994.6	908.5
35°	1292.5	1289.5	1307.9	1324.8	1338.1	1332.2	1315.3	1244.7	1148.3	1055.6	957.0
37.5°	1360.9	1366.8	1383.0	1413.1	1422.7	1425.6	1404.3	1331.5	1221.9	1121.1	1010.7
40°	1413.1	1417.5	1448.4	1486.7	1506.5	1516.8	1495.5	1407.2	1291.0	1173.3	1052.7
42.5°	1455.0	1458.0	1490.4	1544.8	1577.9	1588.2	1569.1	1475.6	1349.9	1215.2	1087.2
45°	1483.0	1488.2	1526.4	1582.3	1633.8	1641.2	1631.6	1536.0	1402.1	1255.0	1112.3
47.5°	1507.3	1513.2	1555.8	1626.4	1683.8	1693.4	1684.6	1588.9	1452.1	1291.0	1133.6
50°	1539.6	1546.3	1588.9	1667.6	1730.9	1741.9	1739.0	1644.8	1499.2	1331.5	1155.7
52.5°	1570.5	1575.7	1626.4	1714.0	1782.4	1789.8	1787.5	1697.1	1547.0	1374.9	1183.6
55°	1594.8	1600.7	1661.0	1769.2	1842.7	1850.8	1835.4	1737.5	1584.5	1406.5	1210.1
57°	1582.3	1590.4	1664.0	1778.7	1858.2	1867.0	1847.1	1752.2	1595.6	1415.3	1219.7
57.5°	1578.6	1584.5	1661.0	1778.0	1858.9	1867.0	1847.1	1751.5	1594.8	1414.6	1219.7
60°	1524.9	1538.9	1625.0	1751.5	1837.6	1847.9	1828.7	1722.1	1576.4	1394.0	1199.8
62.5°	1452.8	1472.0	1562.4	1689.0	1786.1	1793.4	1774.3	1672.8	1535.2	1350.6	1158.6
65°	1349.1	1378.5	1473.4	1595.6	1700.7	1709.6	1690.4	1590.4	1466.8	1284.4	1096.8
67.5°	1247.6	1265.3	1366.8	1483.0	1580.8	1594.1	1577.9	1488.9	1372.7	1196.1	1014.4
70°	1132.1	1144.6	1228.5	1342.5	1441.1	1452.1	1438.1	1355.0	1245.4	1086.5	918.0
72.5°	993.1	1006.3	1077.7	1182.9	1270.4	1288.1	1278.5	1192.4	1093.1	955.6	810.6
75°	836.4	851.1	915.1	999.0	1084.3	1094.6	1083.6	1020.3	930.6	806.2	679.7
77.5°	678.2	687.8	734.1	797.4	863.6	885.7	882.7	837.9	747.4	648.8	545.8
80°	507.6	509.0	533.3	585.6	638.5	654.7	658.4	617.9	558.3	484.0	409.0
82.5°	320.7	325.9	339.1	378.1	403.9	425.9	431.1	407.5	370.0	323.7	277.3
85°	149.3	144.9	155.2	168.5	205.2	205.2	211.9	199.4	188.3	172.9	143.4
87.5°	12.5	11.8	11.8	12.5	19.9	21.3	33.8	37.5	40.5	40.5	42.7
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°	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4
2.5°	555.4	554.7	552.4	552.4	553.9	556.1	556.9	557.6	558.3	559.1	559.1
5°	564.2	563.5	562.0	560.5	562.0	562.7	565.0	566.4	566.4	567.9	567.2
7.5°	572.3	573.0	571.6	570.8	570.8	572.3	575.3	577.5	578.9	579.7	581.1
10°	590.7	586.3	580.4	577.5	577.5	580.4	583.3	586.3	589.2	590.7	590.7
12.5°	606.9	601.7	590.7	586.3	585.6	588.5	592.2	596.6	598.8	601.0	601.0
15°	621.6	617.2	603.9	593.6	590.7	592.9	597.3	602.5	606.1	608.4	608.4
17.5°	649.5	636.3	618.7	601.7	595.8	596.6	601.7	606.9	611.3	612.8	612.0
20°	676.0	659.1	632.6	608.4	598.8	595.8	601.0	607.6	611.3	613.5	613.5
22.5°	706.2	687.8	646.6	615.0	597.3	592.9	597.3	603.2	607.6	609.1	610.6
25°	748.9	716.5	662.1	620.1	595.1	586.3	589.2	595.1	600.3	601.0	600.3
27.5°	787.1	750.3	682.7	625.3	590.0	573.8	570.8	575.3	583.3	588.5	590.0
30°	820.2	786.4	704.0	629.7	580.4	553.2	549.5	551.0	556.1	570.1	570.8
32.5°	869.5	817.3	725.3	633.4	569.4	542.1	537.0	535.5	537.0	544.4	544.4
35°	903.3	851.8	746.7	640.0	561.3	533.3	528.2	526.0	524.5	517.1	514.9
37.5°	947.5	890.1	767.2	645.9	557.6	529.6	522.3	523.8	516.4	495.8	489.9
40°	996.0	924.7	787.8	651.8	559.1	530.4	523.8	523.0	510.5	481.8	475.9
42.5°	1019.6	954.1	809.2	659.8	565.0	532.6	526.7	524.5	509.0	476.7	468.6
45°	1042.4	975.4	824.6	666.5	570.8	535.5	528.2	526.0	508.3	472.3	466.4
47.5°	1063.0	988.7	832.0	670.1	575.3	537.7	528.9	525.2	504.6	470.1	464.2
50°	1072.5	996.0	832.0	670.1	576.7	539.9	527.4	522.3	498.7	466.4	461.2
52.5°	1087.2	1000.4	825.4	665.7	574.5	539.9	524.5	516.4	491.4	461.2	456.8
55°	1109.3	1008.5	816.5	659.1	569.4	535.5	519.3	508.3	481.1	453.9	450.2
57°	1116.7	1011.5	810.6	651.0	563.5	529.6	513.5	499.5	471.5	446.5	442.8
57.5°	1115.2	1010.0	808.4	648.8	561.3	527.4	512.0	497.3	469.3	445.0	441.4
60°	1095.3	996.0	794.5	634.8	549.5	515.7	498.7	482.6	453.9	432.5	429.6
62.5°	1063.0	964.4	769.5	616.4	533.3	499.5	481.8	463.4	434.7	416.4	414.9
65°	1007.8	911.4	733.4	590.0	512.7	478.2	459.0	439.2	414.2	398.0	393.6
67.5°	915.8	840.8	682.7	553.2	481.1	451.7	431.1	410.5	387.7	373.7	370.8
70°	839.3	763.6	617.9	506.8	442.8	414.9	395.8	375.9	356.0	343.5	342.8
72.5°	742.2	669.4	537.0	449.5	394.3	367.1	352.4	334.7	319.3	308.2	308.2
75°	624.5	567.2	453.1	381.0	336.2	316.3	303.8	289.8	276.6	269.2	270.7
77.5°	496.5	453.1	370.0	308.2	275.1	261.9	250.1	242.0	233.9	227.3	228.0
80°	366.3	334.0	272.2	226.6	210.4	198.6	196.4	191.3	186.8	184.6	181.0
82.5°	250.8	222.2	181.0	155.2	143.4	139.8	140.5	140.5	141.2	141.2	139.8
85°	130.2	119.2	92.0	83.1	81.7	85.3	89.7	92.7	92.0	92.0	89.7
87.5°	37.5	33.8	29.4	26.5	28.0	30.2	26.5	25.7	25.0	24.3	24.3
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)