

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: P472185

Luminaire Tested: **CCW-VA-3-830-U-T4W**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472185
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-T4W
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4737.7 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

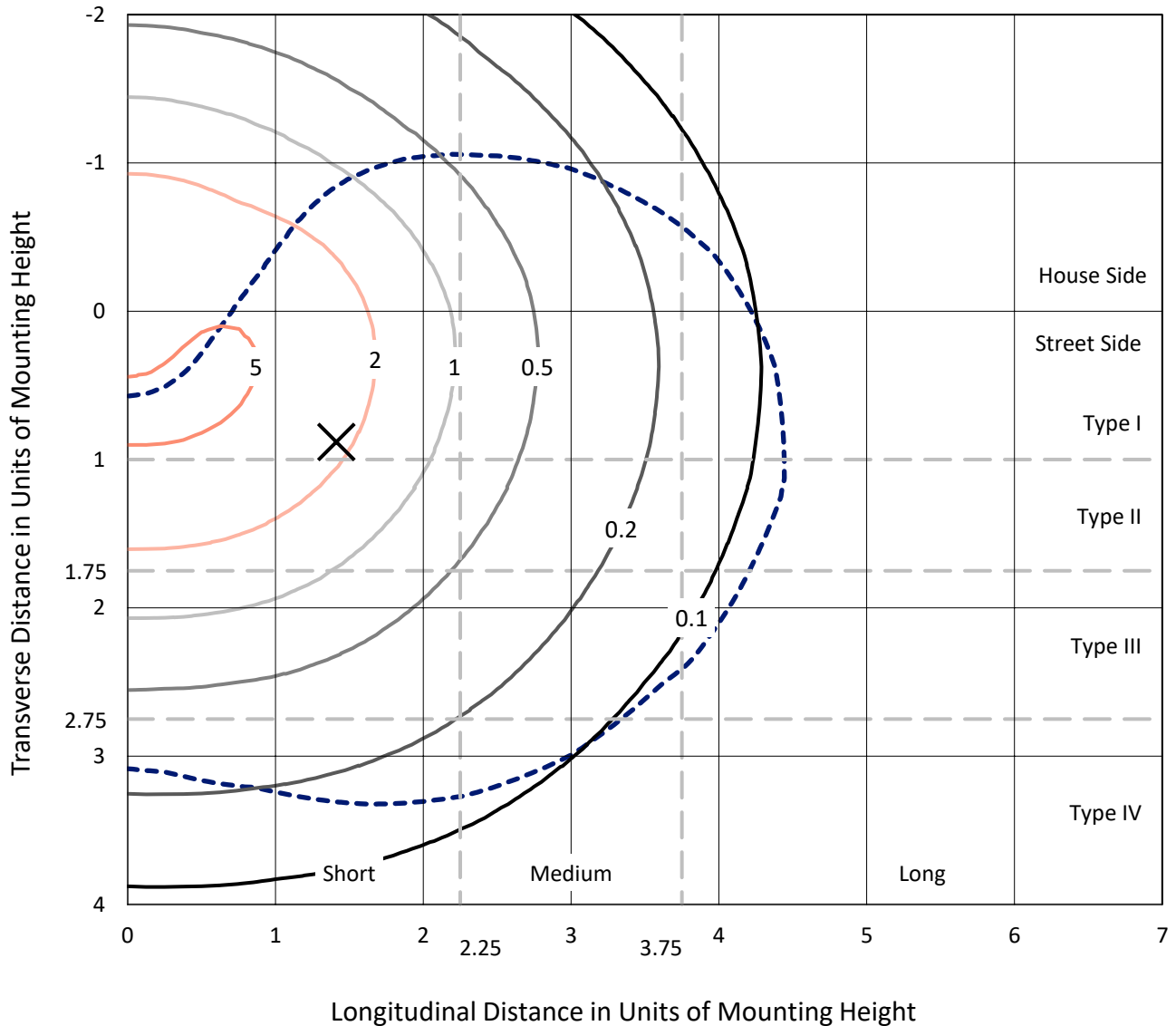
Input Watts (W): 46.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

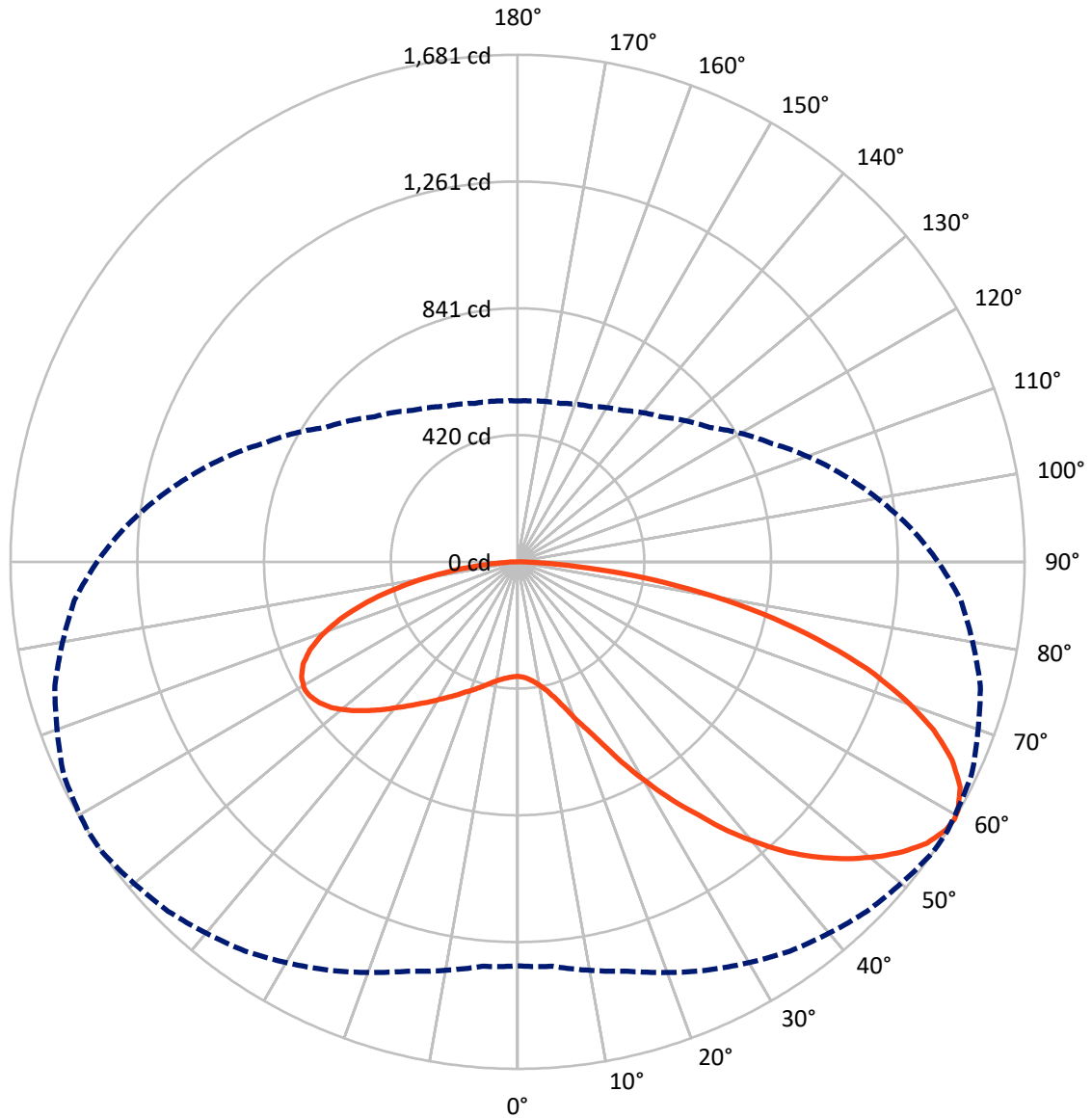
✕ Max cd
 - - - 1/2 Max cd



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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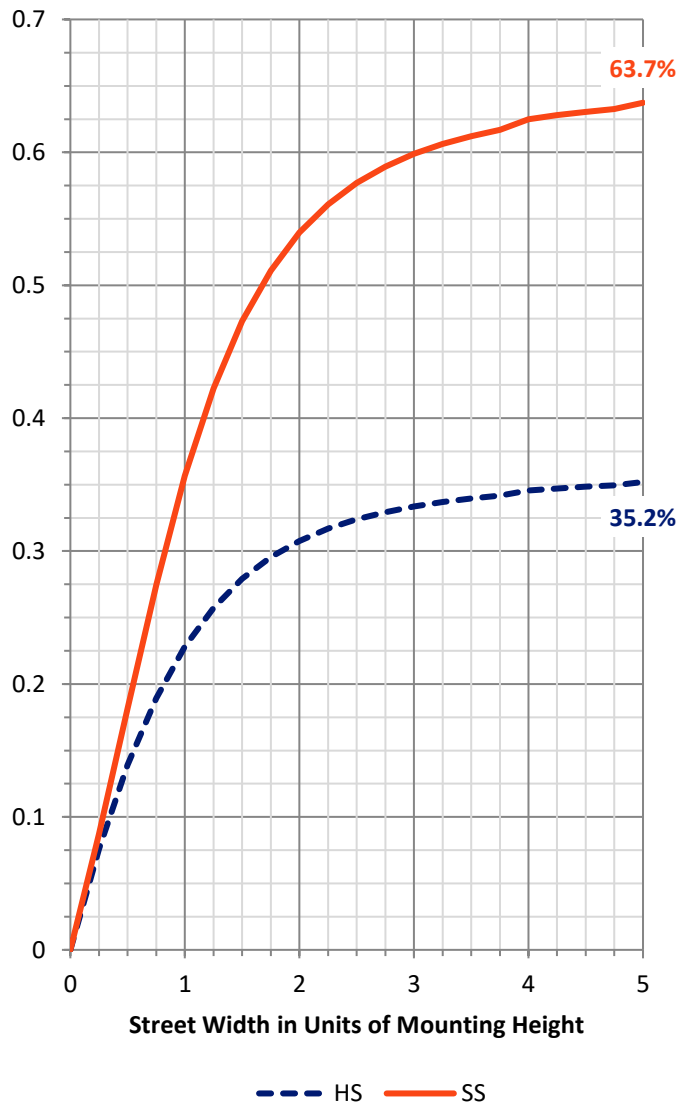
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1689.6	0.0	1689.6
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	3048.0	0.0	3048.0
	% Fixture	64.3	0.0	64.3
Total	Lumens	4737.7	0.0	4737.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.7	0.8
10°-20°	128.5	2.7
20°-30°	271.2	5.7
30°-40°	499.2	10.5
40°-50°	778.1	16.4
50°-60°	1022.4	21.6
60°-70°	1071.3	22.6
70°-80°	742.8	15.7
80°-90°	186.5	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°	4737.7	100.0
0°-180°	4737.7	100.0

Coefficient of Utilization

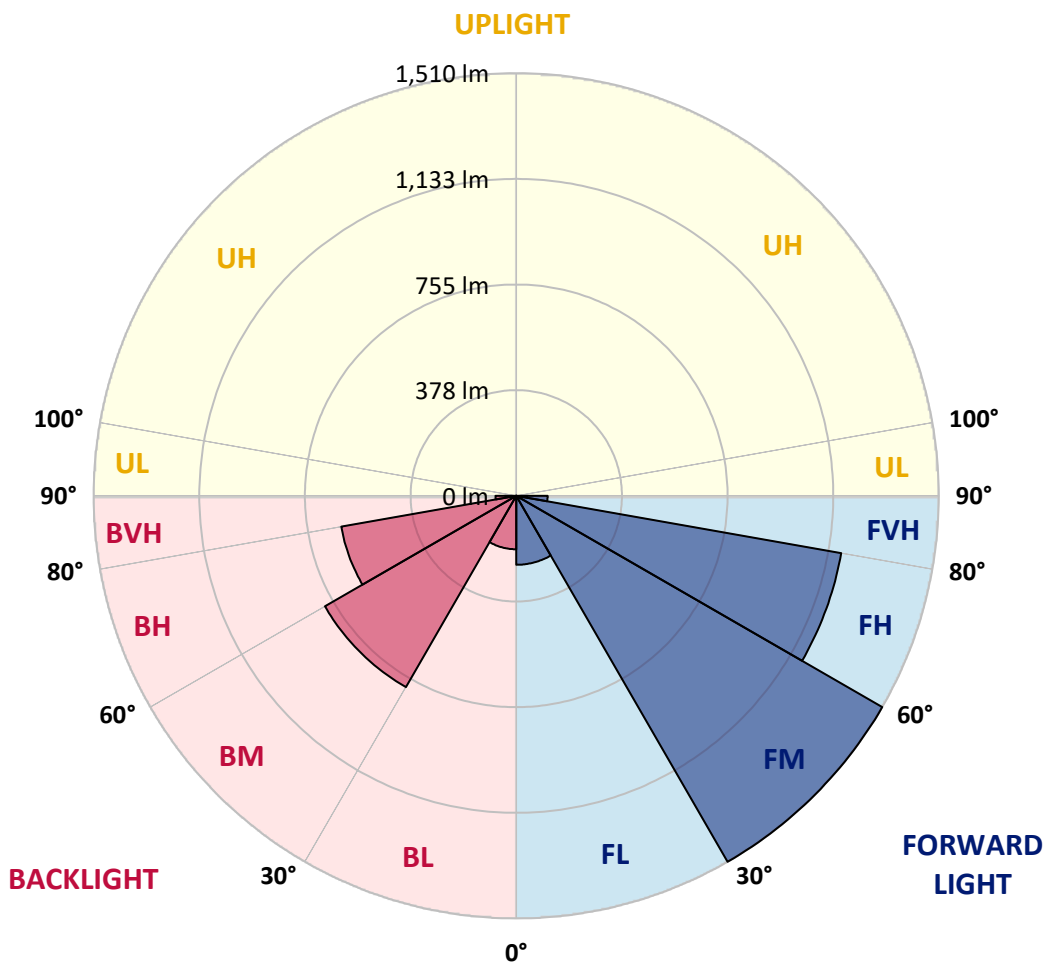


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	246.5	5.2			
FM (30°-60°)	1510.3	31.9			
FH (60°-80°)	1179.2	24.9			G1/1800
FVH (80°-90°)	112.1	2.4			G2/225
BL (0°-30°)	191.0	4.0	B1/500		
BM (30°-60°)	789.4	16.7	B1/1000		
BH (60°-80°)	634.9	13.4	B2/1000		G2/1000
BVH (80°-90°)	74.4	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°	379.8	379.8	379.8	379.8	379.8	379.8	379.8	379.8	379.8	379.8	379.8
2.5°	385.1	385.1	385.1	384.1	384.1	384.1	383.0	383.0	383.0	381.9	380.9
5°	393.7	393.7	392.6	393.7	392.6	391.5	390.5	390.5	390.5	389.4	388.3
7.5°	405.4	406.5	405.4	406.5	405.4	404.3	402.2	402.2	401.1	399.0	396.9
10°	423.5	423.5	423.5	422.5	421.4	420.3	419.3	418.2	417.1	413.9	410.7
12.5°	445.9	445.9	445.9	443.8	443.8	441.7	440.6	439.5	437.4	433.1	428.9
15°	473.7	472.6	475.8	475.8	474.7	474.7	471.5	469.4	467.3	460.9	451.3
17.5°	511.0	510.0	513.2	515.3	515.3	516.4	511.0	508.9	501.4	492.9	480.1
20°	561.2	559.0	562.2	564.4	562.2	564.4	559.0	560.1	549.4	534.5	514.2
22.5°	615.6	615.6	618.8	618.8	619.8	622.0	615.6	612.4	603.8	582.5	556.9
25°	682.8	688.1	688.1	688.1	692.4	693.4	687.0	681.7	670.0	641.2	606.0
27.5°	764.9	763.9	762.8	769.2	769.2	771.3	767.1	764.9	751.1	715.9	662.5
30°	852.4	846.0	850.3	852.4	856.7	859.9	855.6	849.2	832.1	793.7	727.6
32.5°	932.4	936.7	943.1	945.2	951.6	952.7	942.0	942.0	925.0	875.9	807.6
35°	1023.1	1023.1	1040.2	1047.6	1047.6	1054.0	1038.0	1029.5	1017.8	966.6	880.1
37.5°	1102.0	1104.2	1118.1	1135.1	1137.3	1146.9	1135.1	1131.9	1110.6	1058.3	962.3
40°	1175.7	1177.8	1194.9	1215.1	1226.9	1241.8	1230.1	1224.7	1202.3	1142.6	1044.4
42.5°	1233.3	1237.5	1258.9	1288.7	1307.9	1326.1	1320.8	1317.6	1286.6	1223.7	1120.2
45°	1277.0	1284.5	1314.4	1349.6	1376.2	1402.9	1404.0	1397.6	1368.8	1298.3	1193.8
47.5°	1312.2	1320.8	1353.8	1398.6	1439.2	1472.2	1478.6	1471.2	1444.5	1370.9	1259.9
50°	1341.0	1345.3	1382.6	1440.2	1490.4	1532.0	1544.8	1538.4	1514.9	1431.7	1317.6
52.5°	1356.0	1362.4	1405.0	1471.2	1532.0	1582.1	1601.3	1598.1	1570.4	1487.2	1368.8
55°	1363.4	1369.8	1420.0	1495.7	1564.0	1622.7	1646.1	1647.2	1620.5	1537.3	1416.8
57.5°	1354.9	1363.4	1417.8	1502.1	1577.9	1640.8	1677.1	1676.0	1654.7	1575.7	1457.3
59°	1340.0	1346.4	1405.0	1493.6	1575.7	1638.7	1680.3	1681.3	1662.1	1588.5	1475.4
60°	1322.9	1330.4	1390.1	1482.9	1567.2	1631.2	1674.9	1677.1	1661.1	1591.7	1482.9
62.5°	1264.2	1273.8	1340.0	1439.2	1530.9	1591.7	1644.0	1647.2	1638.7	1583.2	1488.2
65°	1182.1	1190.6	1262.1	1367.7	1463.7	1526.7	1575.7	1583.2	1582.1	1544.8	1466.9
67.5°	1081.8	1082.8	1150.1	1265.3	1365.6	1427.4	1474.4	1487.2	1496.8	1472.2	1404.0
70°	961.2	960.2	1025.2	1139.4	1239.7	1304.7	1351.7	1360.2	1384.8	1365.6	1310.1
72.5°	811.9	824.7	885.5	981.5	1080.7	1153.3	1194.9	1210.9	1224.7	1229.0	1183.1
75°	671.0	684.9	732.9	822.5	907.9	975.1	1019.9	1027.4	1053.0	1059.4	1016.7
77.5°	536.6	537.7	572.9	644.4	722.3	777.7	814.0	833.2	847.1	859.9	815.1
80°	376.6	381.9	406.5	457.7	518.5	577.2	607.0	619.8	629.4	638.0	623.0
82.5°	235.8	237.9	253.9	284.8	326.5	359.5	390.5	401.1	403.3	422.5	420.3
85°	112.0	113.1	123.8	138.7	156.8	183.5	195.2	195.2	210.2	224.0	224.0
87.5°	14.9	14.9	18.1	20.3	25.6	33.1	45.9	46.9	55.5	61.9	67.2
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°	379.8	379.8	379.8	379.8	379.8	379.8	379.8	379.8	379.8	379.8	379.8
2.5°	380.9	380.9	380.9	380.9	380.9	379.8	380.9	380.9	380.9	380.9	380.9
5°	388.3	387.3	386.2	385.1	385.1	384.1	384.1	384.1	384.1	384.1	384.1
7.5°	395.8	394.7	393.7	391.5	390.5	389.4	389.4	388.3	388.3	388.3	388.3
10°	408.6	407.5	403.3	400.1	397.9	396.9	395.8	394.7	393.7	393.7	393.7
12.5°	425.7	423.5	416.1	411.8	408.6	406.5	404.3	403.3	402.2	401.1	401.1
15°	447.0	441.7	432.1	425.7	421.4	418.2	415.0	412.9	411.8	410.7	410.7
17.5°	472.6	466.2	453.4	441.7	434.2	428.9	424.6	421.4	420.3	420.3	420.3
20°	504.6	493.9	475.8	459.8	448.1	440.6	434.2	431.0	429.9	428.9	427.8
22.5°	542.0	528.1	501.4	476.9	461.9	451.3	443.8	439.5	436.3	435.3	435.3
25°	584.6	564.4	529.2	499.3	479.0	464.1	454.5	449.1	443.8	441.7	441.7
27.5°	635.8	609.2	562.2	522.8	495.0	476.9	466.2	458.7	453.4	449.1	447.0
30°	691.3	661.4	598.5	548.4	513.2	492.9	480.1	471.5	464.1	456.6	455.5
32.5°	761.7	719.1	642.2	577.2	534.5	508.9	493.9	483.3	473.7	466.2	464.1
35°	833.2	782.0	688.1	607.0	554.8	523.8	505.7	493.9	484.3	475.8	474.7
37.5°	906.8	852.4	738.3	642.2	578.2	540.9	518.5	505.7	493.9	485.4	484.3
40°	983.6	919.6	789.5	678.5	602.8	558.0	532.4	516.4	503.5	496.1	495.0
42.5°	1056.2	986.8	844.9	721.2	631.6	576.1	546.2	529.2	513.2	505.7	504.6
45°	1125.5	1050.8	900.4	760.7	660.4	595.3	560.1	539.8	522.8	515.3	514.2
47.5°	1188.5	1113.8	951.6	803.3	690.2	616.6	575.0	550.5	531.3	523.8	523.8
50°	1245.0	1167.1	1001.8	842.8	718.0	638.0	587.8	560.1	540.9	533.4	532.4
52.5°	1298.3	1214.1	1045.5	876.9	744.7	657.2	600.6	567.6	547.3	538.8	537.7
55°	1341.0	1256.7	1081.8	904.7	762.8	670.0	609.2	571.8	549.4	542.0	540.9
57.5°	1378.4	1291.9	1107.4	923.9	774.5	677.4	613.4	571.8	548.4	539.8	538.8
59°	1394.4	1306.9	1115.9	929.2	776.7	678.5	612.4	568.6	544.1	535.6	533.4
60°	1402.9	1313.3	1119.1	930.3	775.6	676.4	611.3	565.4	539.8	530.2	530.2
62.5°	1411.4	1318.6	1114.9	921.8	763.9	664.6	600.6	552.6	523.8	513.2	513.2
65°	1393.3	1299.4	1090.3	898.3	740.4	644.4	580.4	531.3	499.3	488.6	488.6
67.5°	1340.0	1252.5	1045.5	854.5	702.0	609.2	547.3	497.1	467.3	455.5	452.3
70°	1249.3	1175.7	975.1	791.6	649.7	564.4	505.7	457.7	426.7	415.0	410.7
72.5°	1127.7	1055.1	881.2	714.8	580.4	505.7	454.5	408.6	374.5	362.7	363.8
75°	960.2	909.0	759.6	617.7	500.3	431.0	388.3	349.9	321.1	311.5	312.6
77.5°	778.8	736.1	615.6	503.5	408.6	355.3	319.0	288.0	268.8	263.5	260.3
80°	596.4	554.8	461.9	375.5	310.5	273.1	248.6	227.2	212.3	204.8	207.0
82.5°	400.1	374.5	306.2	248.6	211.2	184.6	176.0	162.2	156.8	152.6	155.8
85°	215.5	193.1	160.0	133.4	116.3	108.8	111.0	109.9	105.6	104.6	107.8
87.5°	70.4	60.8	46.9	39.5	40.5	36.3	36.3	34.1	30.9	29.9	32.0
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)