

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: P472299

Luminaire Tested: **CCW-VA-3-840-U-T4FT**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472299
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-3-840-U-T4FT
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4FT DISTRIBUTION LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5046.4 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

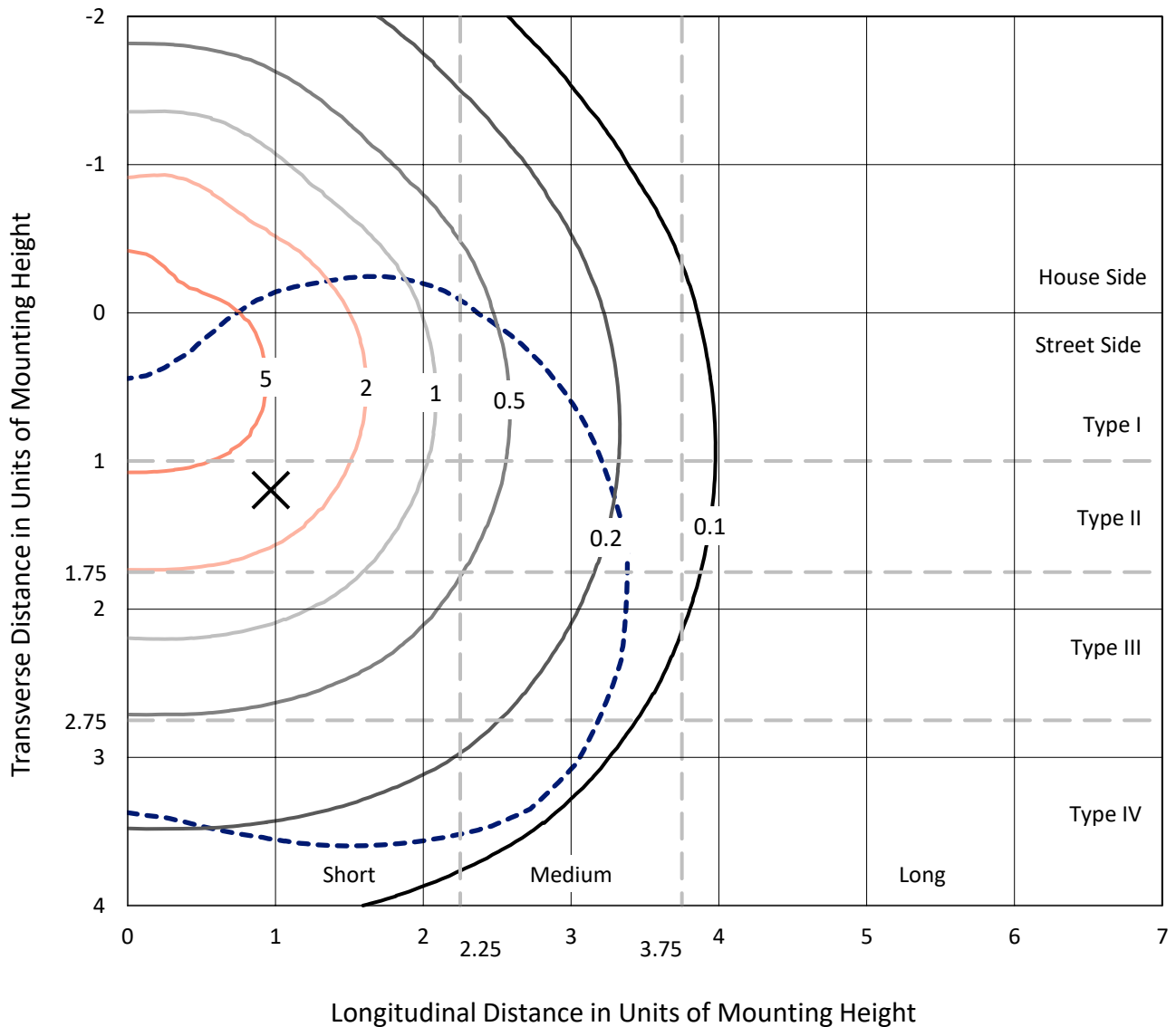
Input Watts (W): 49.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

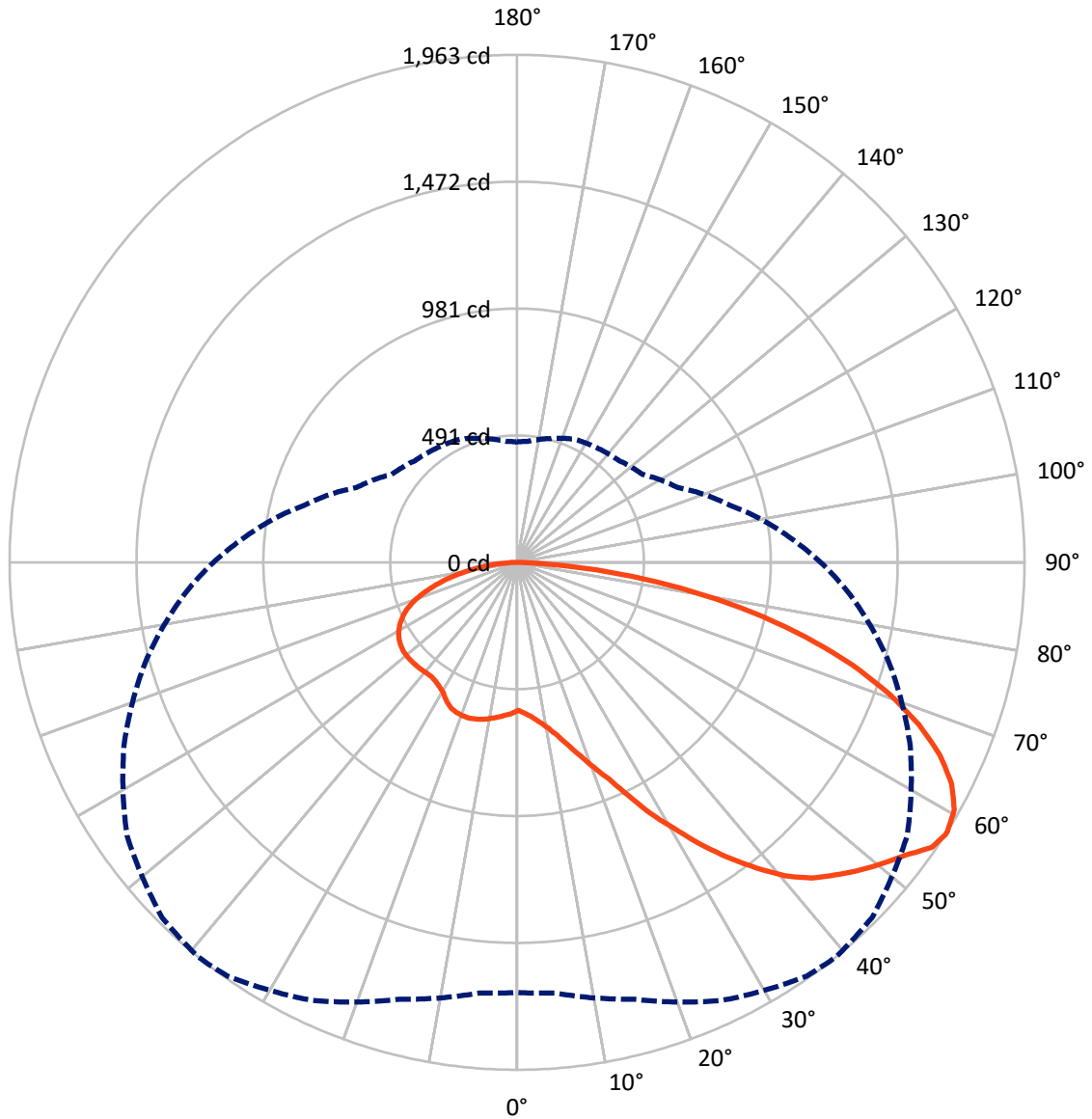
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 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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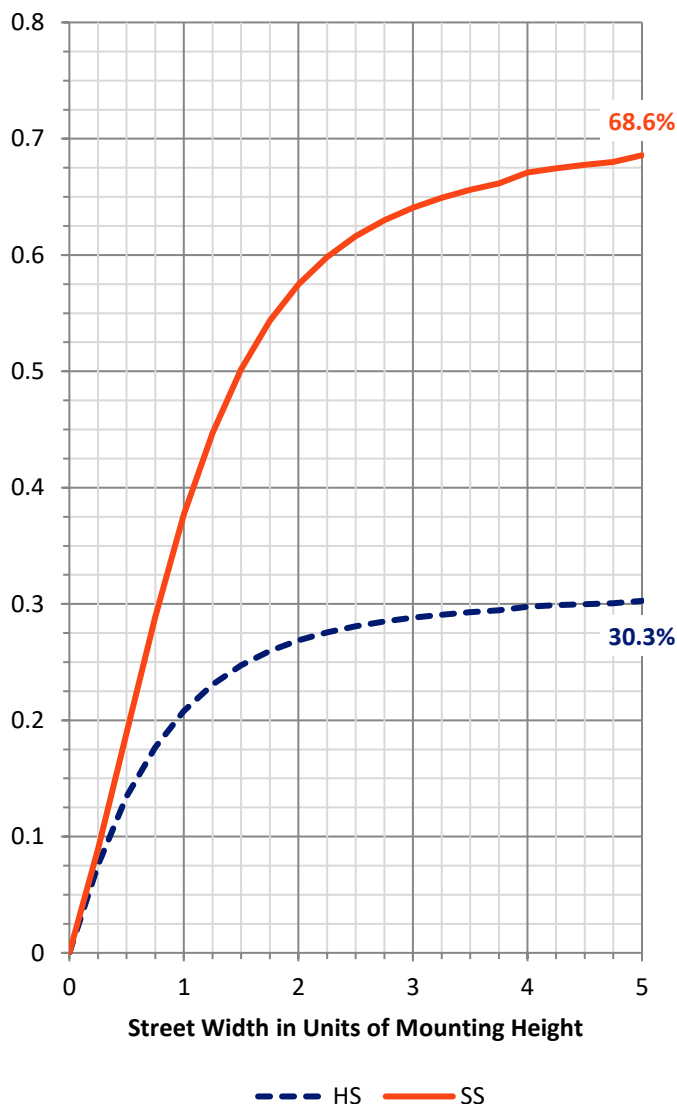
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1548.4	0.0	1548.4
	% Fixture	30.7	0.0	30.7
Street Side	Lumens	3498.0	0.0	3498.0
	% Fixture	69.3	0.0	69.3
Total	Lumens	5046.4	0.0	5046.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	1.1
10°-20°	193.2	3.8
20°-30°	373.3	7.4
30°-40°	603.8	12.0
40°-50°	848.3	16.8
50°-60°	1047.8	20.8
60°-70°	1041.5	20.6
70°-80°	704.7	14.0
80°-90°	175.9	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°	5046.4	100.0
0°-180°	5046.4	100.0

Coefficient of Utilization

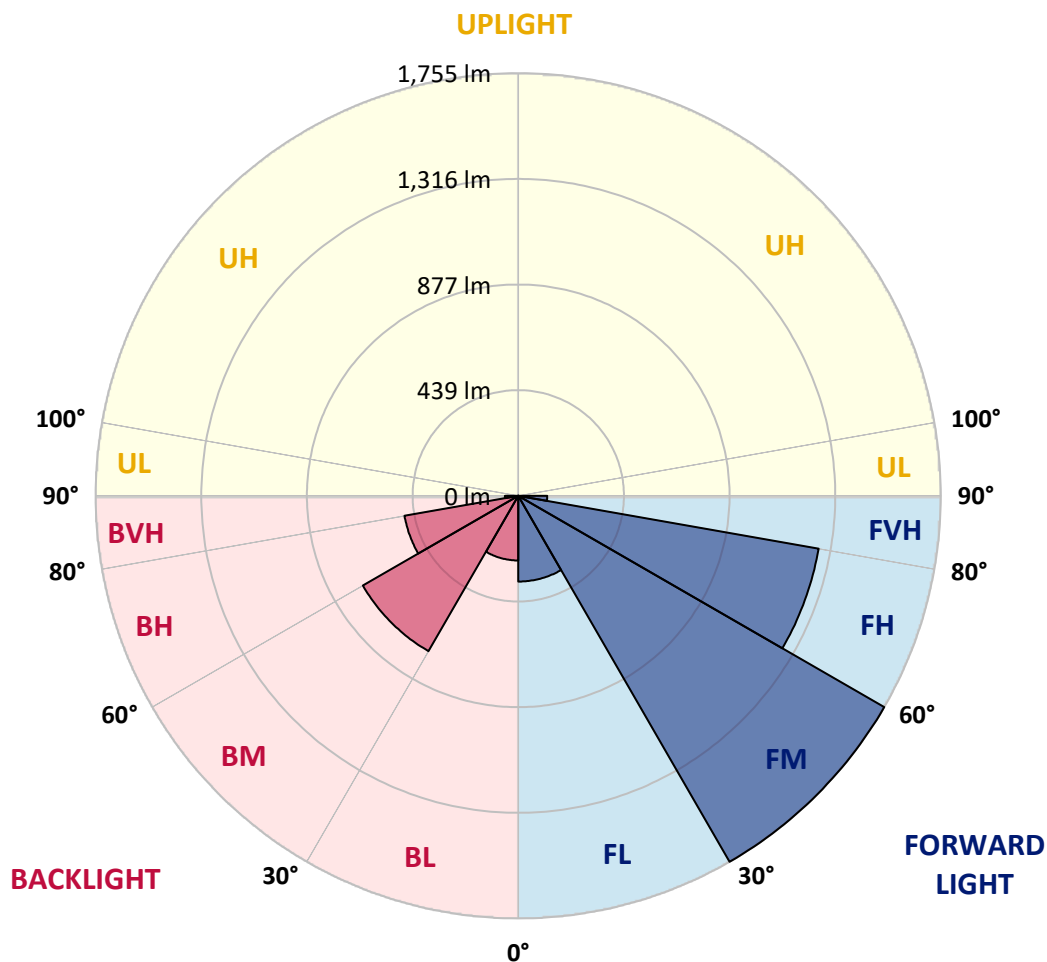


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	356.1	7.1			
FM (30°-60°)	1754.9	34.8			
FH (60°-80°)	1266.7	25.1			G1/1800
FVH (80°-90°)	120.3	2.4			G2/225
BL (0°-30°)	268.4	5.3	B1/500		
BM (30°-60°)	745.0	14.8	B1/1000		
BH (60°-80°)	479.5	9.5	B1/500		G1/500
BVH (80°-90°)	55.5	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°	572.2	572.2	572.2	572.2	572.2	572.2	572.2	572.2	572.2	572.2	572.2
2.5°	589.2	588.5	587.7	587.7	586.2	584.6	583.8	582.3	583.1	584.6	585.4
5°	606.3	604.7	604.7	603.2	600.8	600.8	598.5	595.4	594.7	593.9	593.9
7.5°	632.6	630.2	631.0	628.7	626.4	623.3	619.4	615.5	614.0	608.6	603.9
10°	662.7	661.9	659.6	655.8	653.4	650.3	646.5	639.5	634.1	627.9	624.0
12.5°	698.3	696.7	697.5	694.4	690.5	685.1	678.9	672.0	661.9	650.3	642.6
15°	744.7	741.6	741.6	740.8	733.1	731.5	725.3	709.9	696.0	680.5	662.7
17.5°	801.1	800.4	797.3	794.2	789.5	784.1	777.9	760.9	740.0	716.1	692.1
20°	861.4	859.9	862.2	857.6	848.3	846.0	835.9	816.6	791.1	763.2	726.9
22.5°	927.2	928.7	928.7	927.2	919.4	910.2	901.7	876.1	846.8	812.7	770.2
25°	1006.8	1007.6	1012.2	1016.9	1012.2	997.5	985.9	946.5	907.1	863.8	813.5
27.5°	1096.5	1091.1	1104.3	1112.8	1104.3	1100.4	1074.9	1031.6	977.4	923.3	860.7
30°	1183.1	1183.1	1194.0	1206.3	1200.9	1191.6	1170.8	1115.1	1053.2	984.4	908.6
32.5°	1263.6	1272.8	1277.5	1306.1	1303.0	1298.4	1274.4	1200.9	1123.6	1045.5	955.0
35°	1358.7	1355.6	1374.9	1392.7	1406.6	1400.4	1382.6	1308.4	1207.1	1109.7	1006.1
37.5°	1430.6	1436.8	1453.8	1485.5	1495.5	1498.6	1476.2	1399.7	1284.4	1178.5	1062.5
40°	1485.5	1490.1	1522.6	1562.8	1583.7	1594.5	1572.1	1479.3	1357.1	1233.4	1106.6
42.5°	1529.6	1532.7	1566.7	1623.9	1658.7	1669.5	1649.4	1551.2	1419.0	1277.5	1142.9
45°	1559.0	1564.4	1604.6	1663.3	1717.5	1725.2	1715.2	1614.6	1473.9	1319.2	1169.2
47.5°	1584.5	1590.7	1635.5	1709.7	1770.1	1780.1	1770.8	1670.3	1526.5	1357.1	1191.6
50°	1618.5	1625.5	1670.3	1753.0	1819.6	1831.2	1828.1	1729.1	1576.0	1399.7	1214.8
52.5°	1651.0	1656.4	1709.7	1801.8	1873.7	1881.4	1879.1	1784.0	1626.2	1445.3	1244.2
55°	1676.5	1682.7	1746.1	1859.8	1937.1	1945.6	1929.4	1826.5	1665.7	1478.5	1272.1
57°	1663.3	1671.9	1749.2	1869.8	1953.3	1962.6	1941.7	1842.0	1677.3	1487.8	1282.1
57.5°	1659.5	1665.7	1746.1	1869.0	1954.1	1962.6	1941.7	1841.2	1676.5	1487.0	1282.1
60°	1603.0	1617.7	1708.2	1841.2	1931.7	1942.5	1922.4	1810.3	1657.2	1465.4	1261.2
62.5°	1527.2	1547.4	1642.5	1775.5	1877.5	1885.3	1865.2	1758.5	1613.9	1419.8	1217.9
65°	1418.2	1449.1	1548.9	1677.3	1787.8	1797.1	1777.0	1671.9	1541.9	1350.2	1153.0
67.5°	1311.5	1330.1	1436.8	1559.0	1661.8	1675.7	1658.7	1565.1	1443.0	1257.4	1066.4
70°	1190.1	1203.2	1291.4	1411.3	1514.9	1526.5	1511.8	1424.4	1309.2	1142.2	965.1
72.5°	1043.9	1057.9	1132.9	1243.5	1335.5	1354.0	1344.0	1253.5	1149.1	1004.5	852.2
75°	879.2	894.7	962.0	1050.1	1139.8	1150.7	1139.1	1072.6	978.2	847.5	714.5
77.5°	713.0	723.0	771.7	838.2	907.8	931.0	927.9	880.8	785.7	682.0	573.8
80°	533.6	535.1	560.6	615.5	671.2	688.2	692.1	649.6	586.9	508.8	429.9
82.5°	337.2	342.6	356.5	397.5	424.5	447.7	453.1	428.4	389.0	340.2	291.5
85°	157.0	152.3	163.2	177.1	215.7	215.7	222.7	209.6	198.0	181.7	150.8
87.5°	13.1	12.4	12.4	13.1	20.9	22.4	35.6	39.4	42.5	42.5	44.9
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°	572.2	572.2	572.2	572.2	572.2	572.2	572.2	572.2	572.2	572.2	572.2
2.5°	583.8	583.1	580.7	580.7	582.3	584.6	585.4	586.2	586.9	587.7	587.7
5°	593.1	592.3	590.8	589.2	590.8	591.6	593.9	595.4	595.4	597.0	596.2
7.5°	601.6	602.4	600.8	600.1	600.1	601.6	604.7	607.0	608.6	609.4	610.9
10°	621.0	616.3	610.1	607.0	607.0	610.1	613.2	616.3	619.4	621.0	621.0
12.5°	638.0	632.6	621.0	616.3	615.5	618.6	622.5	627.1	629.5	631.8	631.8
15°	653.4	648.8	634.9	624.0	621.0	623.3	627.9	633.3	637.2	639.5	639.5
17.5°	682.8	668.9	650.3	632.6	626.4	627.1	632.6	638.0	642.6	644.2	643.4
20°	710.7	692.9	665.0	639.5	629.5	626.4	631.8	638.7	642.6	644.9	644.9
22.5°	742.4	723.0	679.7	646.5	627.9	623.3	627.9	634.1	638.7	640.3	641.8
25°	787.2	753.2	696.0	651.9	625.6	616.3	619.4	625.6	631.0	631.8	631.0
27.5°	827.4	788.8	717.6	657.3	620.2	603.2	600.1	604.7	613.2	618.6	620.2
30°	862.2	826.6	740.0	661.9	610.1	581.5	577.6	579.2	584.6	599.3	600.1
32.5°	914.0	859.1	762.5	665.8	598.5	569.9	564.5	563.0	564.5	572.2	572.2
35°	949.6	895.5	784.9	672.8	590.0	560.6	555.2	552.9	551.4	543.6	541.3
37.5°	996.0	935.7	806.5	678.9	586.2	556.8	549.0	550.6	542.8	521.2	515.0
40°	1047.0	972.0	828.2	685.1	587.7	557.5	550.6	549.8	536.7	506.5	500.3
42.5°	1071.8	1003.0	850.6	693.6	593.9	559.9	553.7	551.4	535.1	501.1	492.6
45°	1095.8	1025.4	866.9	700.6	600.1	563.0	555.2	552.9	534.3	496.5	490.3
47.5°	1117.4	1039.3	874.6	704.5	604.7	565.3	556.0	552.1	530.5	494.1	487.9
50°	1127.5	1047.0	874.6	704.5	606.3	567.6	554.4	549.0	524.3	490.3	484.9
52.5°	1142.9	1051.7	867.6	699.8	603.9	567.6	551.4	542.8	516.6	484.9	480.2
55°	1166.1	1060.2	858.4	692.9	598.5	563.0	545.9	534.3	505.7	477.1	473.3
57°	1173.9	1063.3	852.2	684.4	592.3	556.8	539.8	525.1	495.7	469.4	465.5
57.5°	1172.3	1061.7	849.8	682.0	590.0	554.4	538.2	522.7	493.4	467.8	464.0
60°	1151.4	1047.0	835.2	667.3	577.6	542.1	524.3	507.3	477.1	454.7	451.6
62.5°	1117.4	1013.8	808.9	648.0	560.6	525.1	506.5	487.2	457.0	437.7	436.1
65°	1059.4	958.1	771.0	620.2	539.0	502.6	482.5	461.7	435.4	418.4	413.7
67.5°	962.7	883.9	717.6	581.5	505.7	474.8	453.1	431.5	407.5	392.8	389.7
70°	882.3	802.7	649.6	532.8	465.5	436.1	416.0	395.2	374.3	361.1	360.4
72.5°	780.3	703.7	564.5	472.5	414.5	385.9	370.4	351.8	335.6	324.0	324.0
75°	656.5	596.2	476.3	400.6	353.4	332.5	319.4	304.7	290.8	283.0	284.6
77.5°	522.0	476.3	389.0	324.0	289.2	275.3	262.9	254.4	245.9	238.9	239.7
80°	385.1	351.1	286.1	238.2	221.2	208.8	206.5	201.1	196.4	194.1	190.2
82.5°	263.7	233.5	190.2	163.2	150.8	146.9	147.7	147.7	148.5	148.5	146.9
85°	136.9	125.3	96.7	87.4	85.8	89.7	94.3	97.4	96.7	96.7	94.3
87.5°	39.4	35.6	30.9	27.8	29.4	31.7	27.8	27.1	26.3	25.5	25.5
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)