

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: P472316

Luminaire Tested: **CCW-VA-4-730-U-T3**

Issue Date: 01/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P472316  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-VA-4-730-U-T3  
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T3 DISTRIBUTION LENS  
Light Source: 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5630.6 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

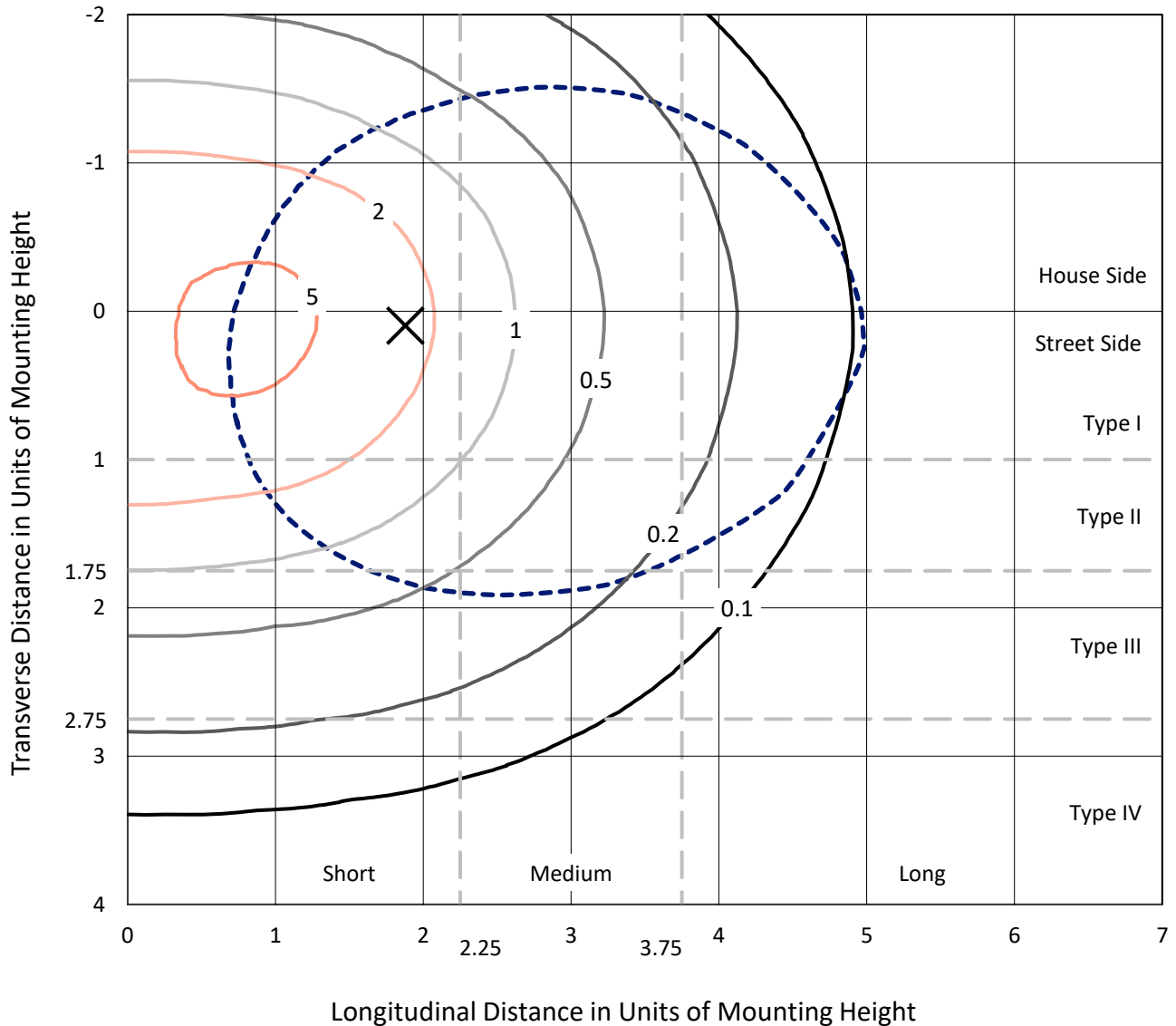
Input Watts (W): 64.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

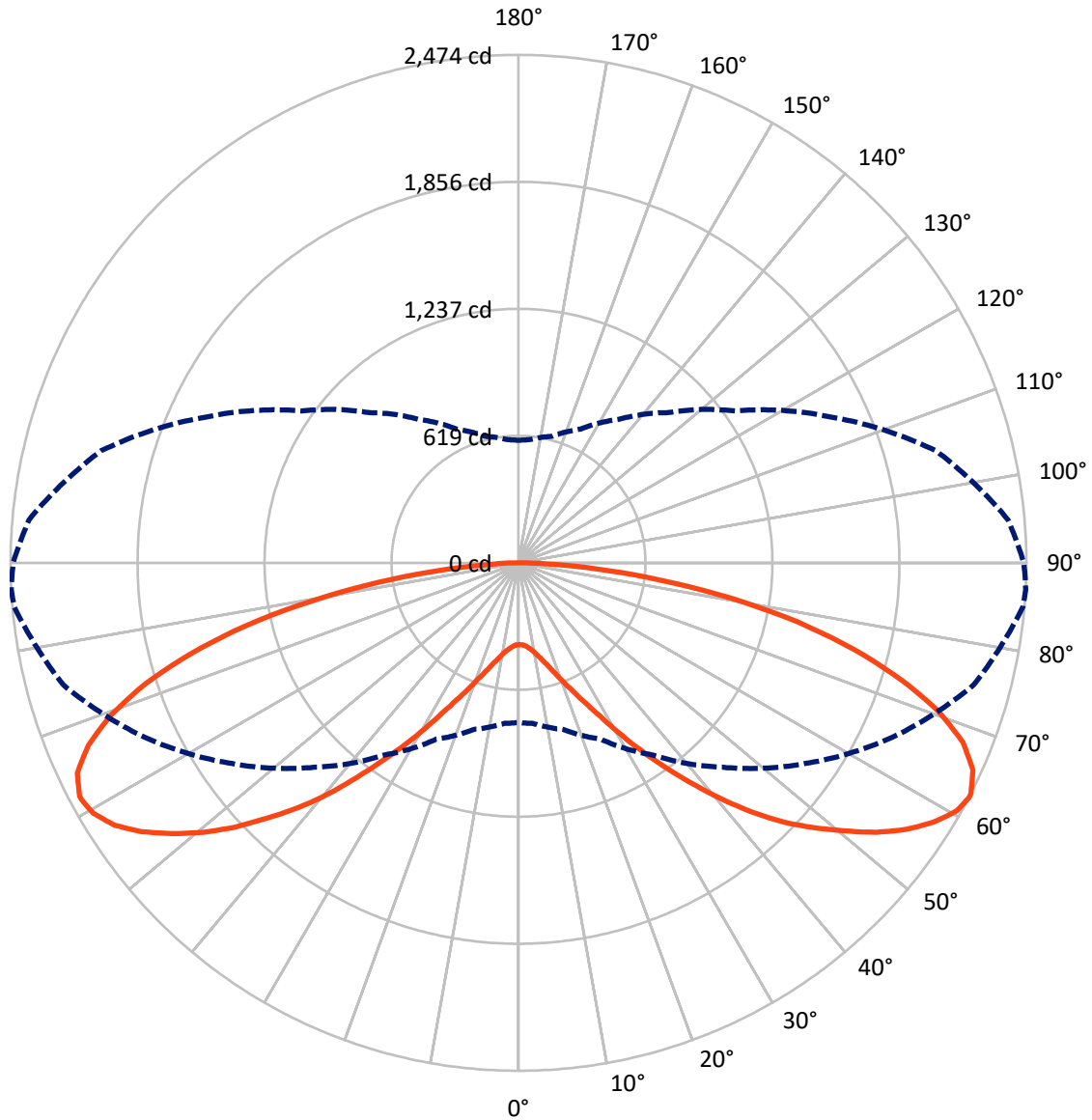
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 87-Deg Lateral      - - - Horizontal Cone Through 62-Deg Vertical

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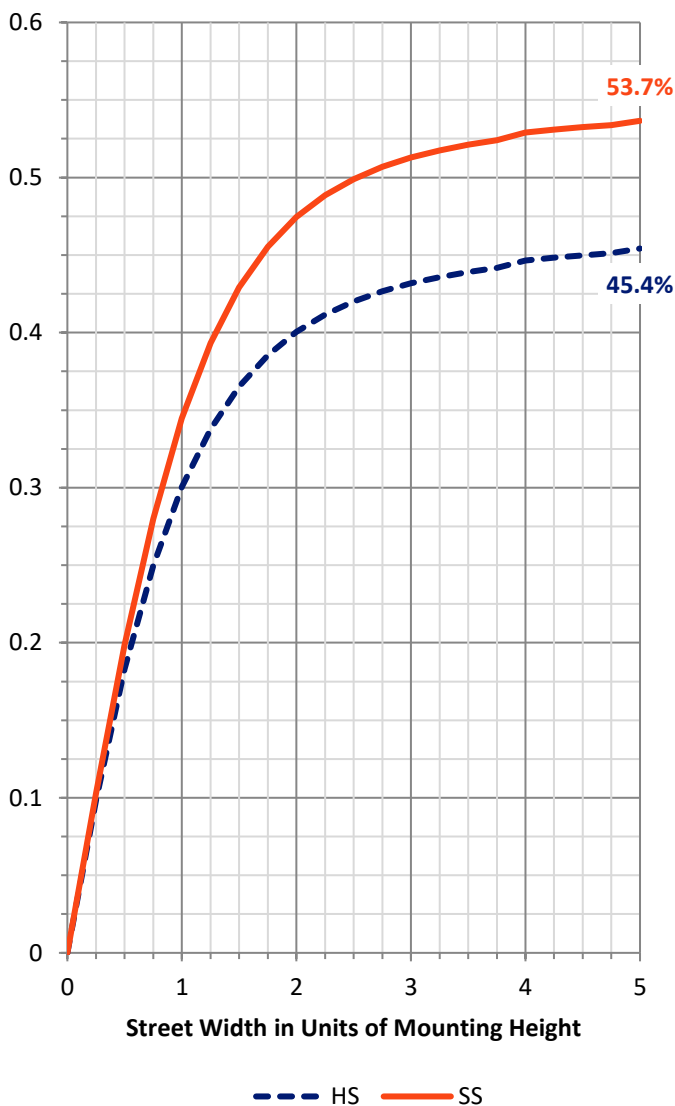
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2592.5	0.0	2592.5
	% Fixture	46.0	0.0	46.0
<b>Street Side</b>	Lumens	3038.2	0.0	3038.2
	% Fixture	54.0	0.0	54.0
<b>Total</b>	Lumens	5630.6	0.0	5630.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.1	0.7
10°-20°	141.5	2.5
20°-30°	302.5	5.4
30°-40°	557.5	9.9
40°-50°	889.1	15.8
50°-60°	1209.1	21.5
60°-70°	1310.0	23.3
70°-80°	936.1	16.6
80°-90°	244.6	4.3
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°	5630.6	100.0
0°-180°	5630.6	100.0

**Coefficient of Utilization**



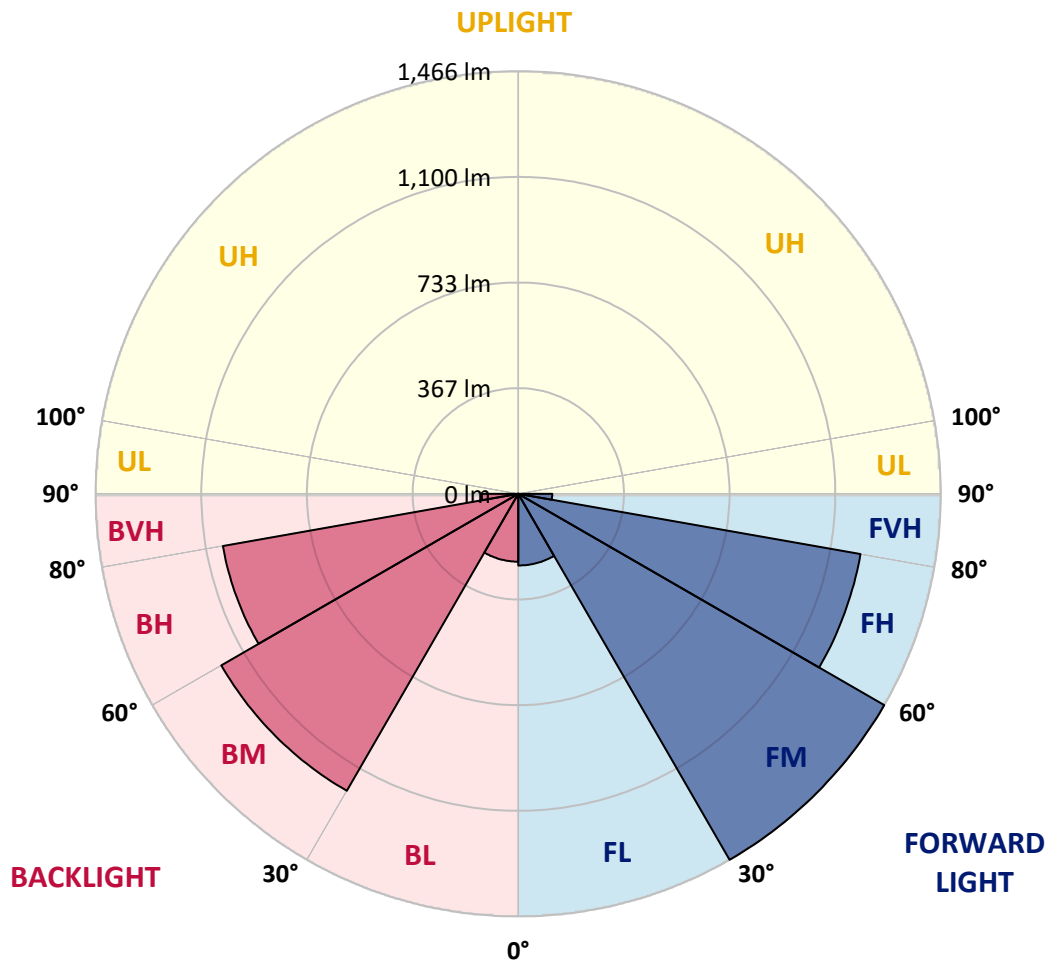
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	248.7	4.4			
FM (30°-60°)	1466.1	26.0			
FH (60°-80°)	1205.5	21.4			G1/1800
FVH (80°-90°)	117.8	2.1			G2/225
BL (0°-30°)	235.4	4.2	B1/500		
BM (30°-60°)	1189.7	21.1	B2/2500		
BH (60°-80°)	1040.5	18.5	B3/2500		G3/2500
BVH (80°-90°)	126.8	2.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87°
0°	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5
2.5°	399.4	399.4	399.4	399.4	399.4	399.4	399.4	399.4	399.4	400.3	400.3
5°	402.1	401.2	401.2	402.1	403.0	403.9	405.7	406.6	408.5	410.3	409.4
7.5°	410.3	410.3	410.3	411.2	413.9	415.7	418.5	421.2	423.9	425.7	424.8
10°	423.0	423.0	423.0	424.8	427.5	433.0	437.5	442.1	444.8	446.6	447.5
12.5°	436.6	436.6	438.4	442.1	447.5	454.8	462.9	469.3	473.8	475.6	476.5
15°	455.7	456.6	460.2	463.8	471.1	482.0	495.6	504.7	509.2	512.9	511.9
17.5°	484.7	483.8	486.5	494.7	502.9	518.3	534.6	550.1	559.1	559.1	559.1
20°	517.4	516.5	518.3	524.7	538.3	559.1	584.6	605.4	615.4	613.6	615.4
22.5°	553.7	553.7	555.5	561.0	574.6	604.5	639.9	670.8	684.4	679.9	678.1
25°	593.6	593.6	596.4	600.9	620.0	656.3	703.5	747.9	761.6	757.0	755.2
27.5°	639.9	636.3	641.7	646.3	669.9	718.0	779.7	836.0	865.9	850.5	845.1
30°	688.9	686.2	687.1	696.2	723.4	785.2	858.7	934.0	975.8	965.8	957.6
32.5°	731.6	733.4	736.1	751.6	782.4	856.9	942.2	1041.1	1088.3	1085.6	1083.8
35°	779.7	779.7	785.2	799.7	845.1	933.1	1036.6	1148.2	1218.1	1220.9	1215.4
37.5°	817.8	817.8	826.0	845.1	898.6	1003.0	1130.1	1261.7	1346.1	1360.6	1356.1
40°	851.4	849.6	858.7	886.8	949.5	1077.4	1221.8	1374.3	1487.7	1512.2	1505.9
42.5°	871.4	873.2	885.9	921.3	998.5	1142.8	1311.6	1480.5	1613.0	1654.7	1654.7
45°	885.9	887.7	906.8	948.5	1042.9	1207.2	1393.3	1589.4	1735.5	1796.3	1799.1
47.5°	892.3	895.0	918.6	969.4	1080.2	1266.2	1472.3	1687.4	1845.4	1931.6	1926.1
50°	892.3	895.9	924.0	984.9	1113.7	1316.2	1546.7	1780.9	1957.0	2053.2	2052.3
52.5°	886.8	891.4	925.9	996.7	1141.9	1364.3	1613.0	1860.8	2064.1	2177.6	2181.2
55°	875.9	881.4	921.3	1003.9	1163.7	1402.4	1666.5	1935.2	2156.7	2284.7	2292.9
57.5°	854.1	859.6	905.0	997.6	1171.8	1422.4	1705.6	1987.9	2232.0	2381.8	2383.6
60°	817.8	824.2	873.2	976.7	1163.7	1423.3	1715.6	2011.5	2282.9	2447.2	2453.5
62°	777.9	785.2	840.5	947.6	1142.8	1408.8	1704.7	2010.6	2296.5	2466.2	2474.4
62.5°	767.9	774.3	830.5	937.7	1134.6	1401.5	1698.3	2006.0	2294.7	2467.1	2473.5
65°	706.2	712.5	769.7	883.2	1084.7	1357.0	1652.0	1966.1	2262.0	2430.8	2432.6
67.5°	638.1	644.5	701.7	808.8	1013.0	1282.6	1574.0	1887.1	2174.9	2321.0	2334.6
70°	559.1	568.2	620.9	727.1	918.6	1175.5	1450.5	1761.8	2036.0	2160.3	2173.0
72.5°	481.1	487.4	529.2	622.7	796.1	1034.8	1290.8	1572.1	1821.8	1939.8	1950.6
75°	390.3	395.8	436.6	513.8	659.0	862.3	1103.8	1349.8	1576.7	1682.9	1691.0
77.5°	307.7	309.5	338.6	400.3	511.9	676.2	875.9	1070.2	1276.2	1372.4	1394.2
80°	216.9	226.0	246.0	288.6	359.4	484.7	629.0	795.1	939.5	1047.5	1054.7
82.5°	140.7	142.5	155.2	170.6	221.5	305.9	400.3	502.9	631.8	701.7	696.2
85°	73.5	73.5	78.1	82.6	99.8	137.1	193.3	265.0	340.4	393.0	385.8
87.5°	12.7	11.8	12.7	11.8	15.4	21.8	40.8	66.3	99.8	118.0	129.8
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°	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5
2.5°	400.3	400.3	401.2	403.0	403.0	403.9	404.8	404.8	405.7	406.6	406.6
5°	411.2	411.2	412.1	413.9	414.8	414.8	415.7	416.6	416.6	416.6	417.5
7.5°	425.7	426.6	427.5	428.4	429.3	429.3	432.1	431.2	431.2	431.2	431.2
10°	446.6	448.4	448.4	448.4	448.4	447.5	448.4	447.5	445.7	445.7	444.8
12.5°	477.5	477.5	475.6	473.8	471.1	470.2	469.3	466.6	462.9	461.1	461.1
15°	512.9	511.0	507.4	503.8	499.2	495.6	489.3	485.6	481.1	479.3	479.3
17.5°	558.2	555.5	545.5	538.3	527.4	519.2	511.9	504.7	499.2	497.4	496.5
20°	610.0	603.6	589.1	572.8	558.2	545.5	531.9	522.8	517.4	512.9	511.9
22.5°	675.3	666.3	640.8	615.4	589.1	570.9	553.7	541.0	531.0	526.5	524.7
25°	746.1	732.5	699.8	661.7	625.4	597.3	575.5	558.2	546.4	539.2	537.4
27.5°	836.0	816.0	767.9	710.7	662.6	627.2	597.3	577.3	561.9	551.0	549.2
30°	941.3	920.4	840.5	765.2	704.4	654.5	621.8	595.5	576.4	563.7	561.0
32.5°	1066.5	1028.4	936.7	830.5	747.0	686.2	644.5	613.6	590.0	575.5	571.9
35°	1193.6	1154.6	1033.9	899.5	792.4	718.9	669.0	631.8	605.4	587.3	585.5
37.5°	1336.1	1288.9	1147.3	977.6	841.4	753.4	691.7	649.0	617.2	598.2	596.4
40°	1489.5	1441.4	1269.0	1067.5	899.5	787.0	713.5	665.3	629.9	609.1	606.3
42.5°	1640.2	1583.0	1392.4	1157.3	958.5	824.2	738.9	682.6	640.8	619.1	615.4
45°	1770.9	1721.0	1517.7	1260.8	1026.6	862.3	764.3	698.9	652.6	628.1	624.5
47.5°	1918.9	1865.3	1654.7	1356.1	1092.0	905.9	788.8	713.5	662.6	636.3	633.6
50°	2049.6	2001.5	1776.4	1444.2	1154.6	946.7	811.5	727.1	670.8	642.7	639.0
52.5°	2168.5	2125.8	1888.0	1526.8	1208.1	984.9	832.4	737.1	676.2	645.4	640.8
55°	2288.3	2232.9	1985.1	1599.4	1250.8	1014.8	849.6	741.6	675.3	643.6	639.0
57.5°	2378.2	2325.5	2055.9	1651.1	1282.6	1034.8	859.6	740.7	669.9	635.4	629.9
60°	2439.0	2380.9	2097.7	1676.5	1293.5	1041.1	859.6	732.5	656.3	619.1	613.6
62°	2461.7	2394.5	2105.9	1680.2	1288.9	1034.8	853.2	718.9	638.1	601.8	596.4
62.5°	2462.6	2393.6	2103.1	1677.4	1286.2	1032.1	849.6	714.4	633.6	596.4	590.9
65°	2422.7	2353.7	2070.5	1649.3	1255.4	1007.5	824.2	688.0	601.8	565.5	560.1
67.5°	2308.3	2255.6	1992.4	1583.9	1202.7	962.2	787.0	649.9	564.6	526.5	523.7
70°	2149.4	2101.3	1865.3	1485.0	1126.5	896.8	731.6	599.1	517.4	482.9	476.5
72.5°	1949.7	1887.1	1684.7	1352.5	1016.6	806.9	659.0	535.5	462.9	432.1	428.4
75°	1701.9	1626.6	1457.8	1177.3	885.0	698.9	574.6	464.7	400.3	374.0	376.7
77.5°	1386.1	1350.7	1178.2	938.6	720.7	578.2	471.1	393.9	338.6	316.8	315.0
80°	1046.6	1013.0	892.3	712.5	544.6	437.5	364.9	310.4	272.3	253.2	252.3
82.5°	709.8	678.1	586.4	478.4	371.2	309.5	264.1	228.7	205.1	196.1	196.1
85°	390.3	363.1	310.4	258.7	209.7	177.0	170.6	152.5	146.1	144.3	146.1
87.5°	121.6	120.7	102.6	84.4	73.5	74.4	67.2	69.0	65.4	64.4	69.0
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)