

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: P472323

Luminaire Tested: **CCW-VA-3-740-U-T3**

Issue Date: 01/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P472323  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-VA-3-740-U-T3  
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T3 DISTRIBUTION LENS  
Light Source: 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

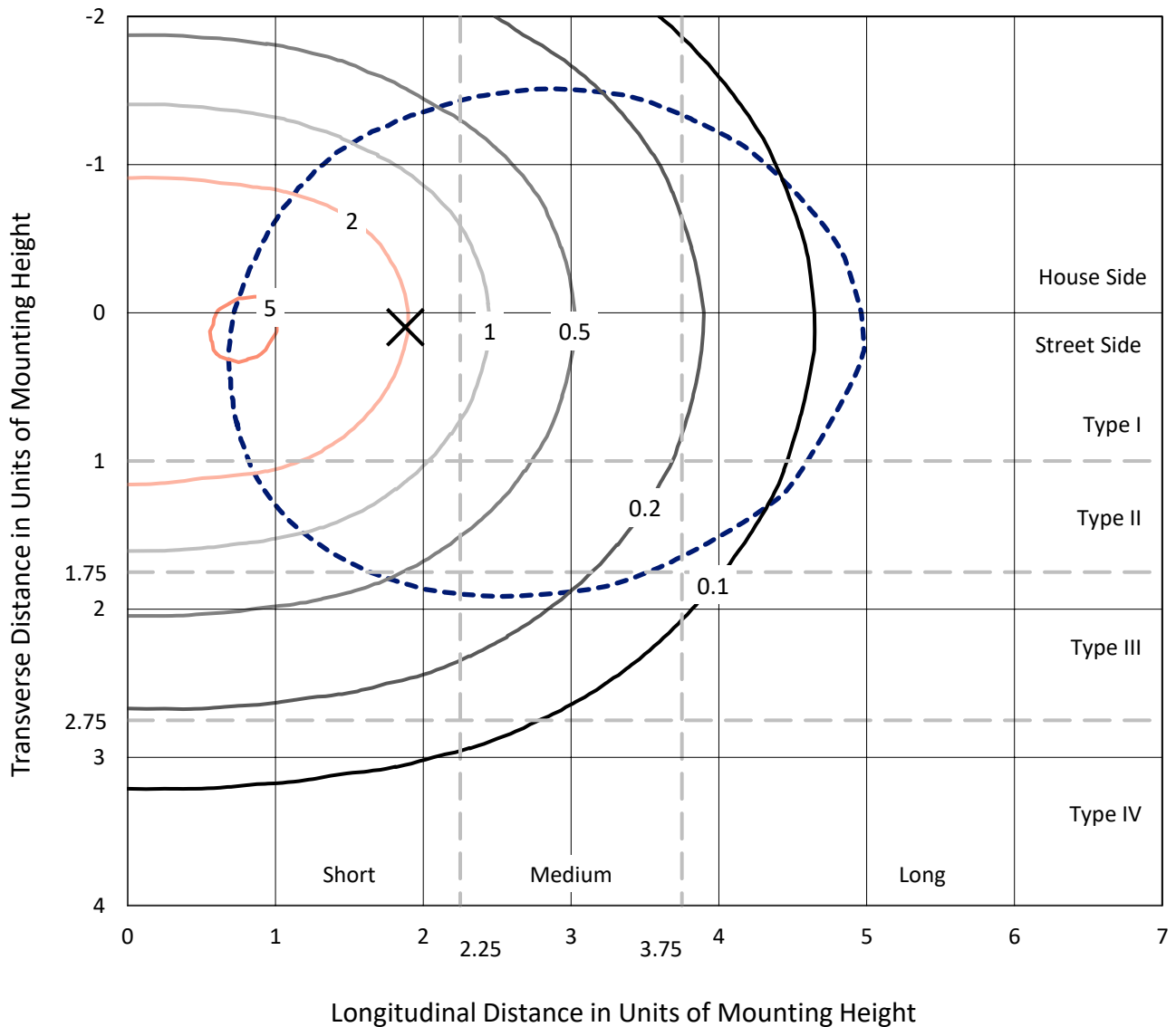
Lumens per Lamp: N/A  
Luminaire Lumens: 4514.1 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 48.9  
Input Voltage (V): 120  
Input Current (Ain): 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

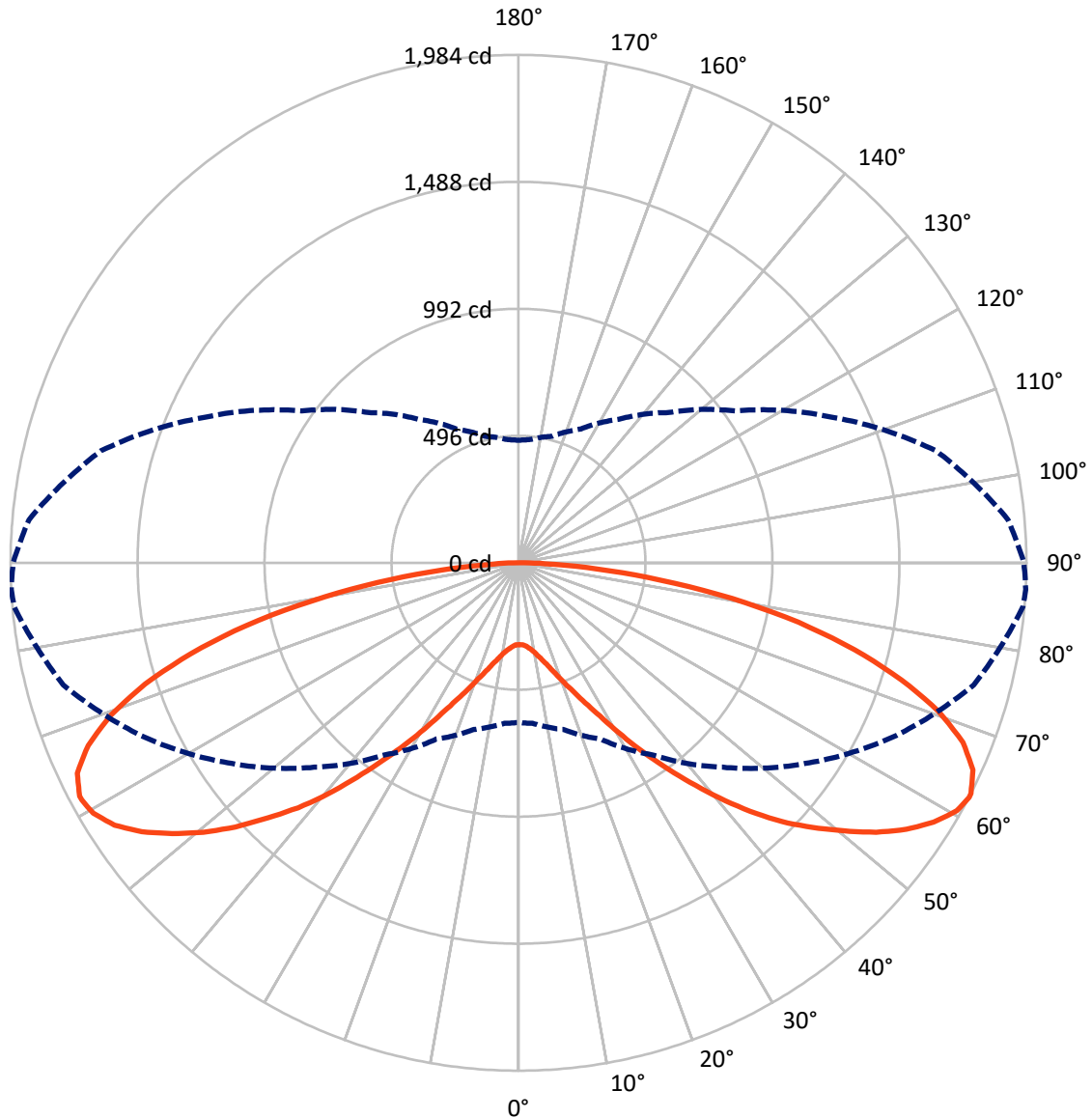
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 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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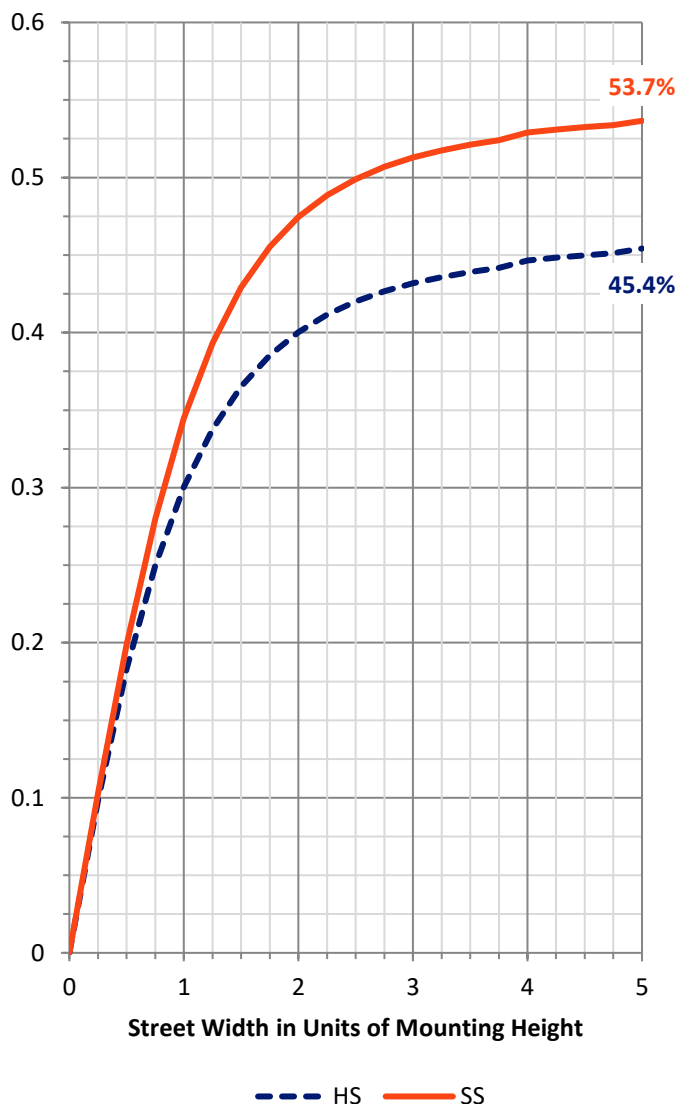
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2078.4	0.0	2078.4
	% Fixture	46.0	0.0	46.0
<b>Street Side</b>	Lumens	2435.7	0.0	2435.7
	% Fixture	54.0	0.0	54.0
<b>Total</b>	Lumens	4514.1	0.0	4514.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.2	0.7
10°-20°	113.4	2.5
20°-30°	242.5	5.4
30°-40°	447.0	9.9
40°-50°	712.8	15.8
50°-60°	969.4	21.5
60°-70°	1050.2	23.3
70°-80°	750.4	16.6
80°-90°	196.1	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°	4514.1	100.0
0°-180°	4514.1	100.0

**Coefficient of Utilization**

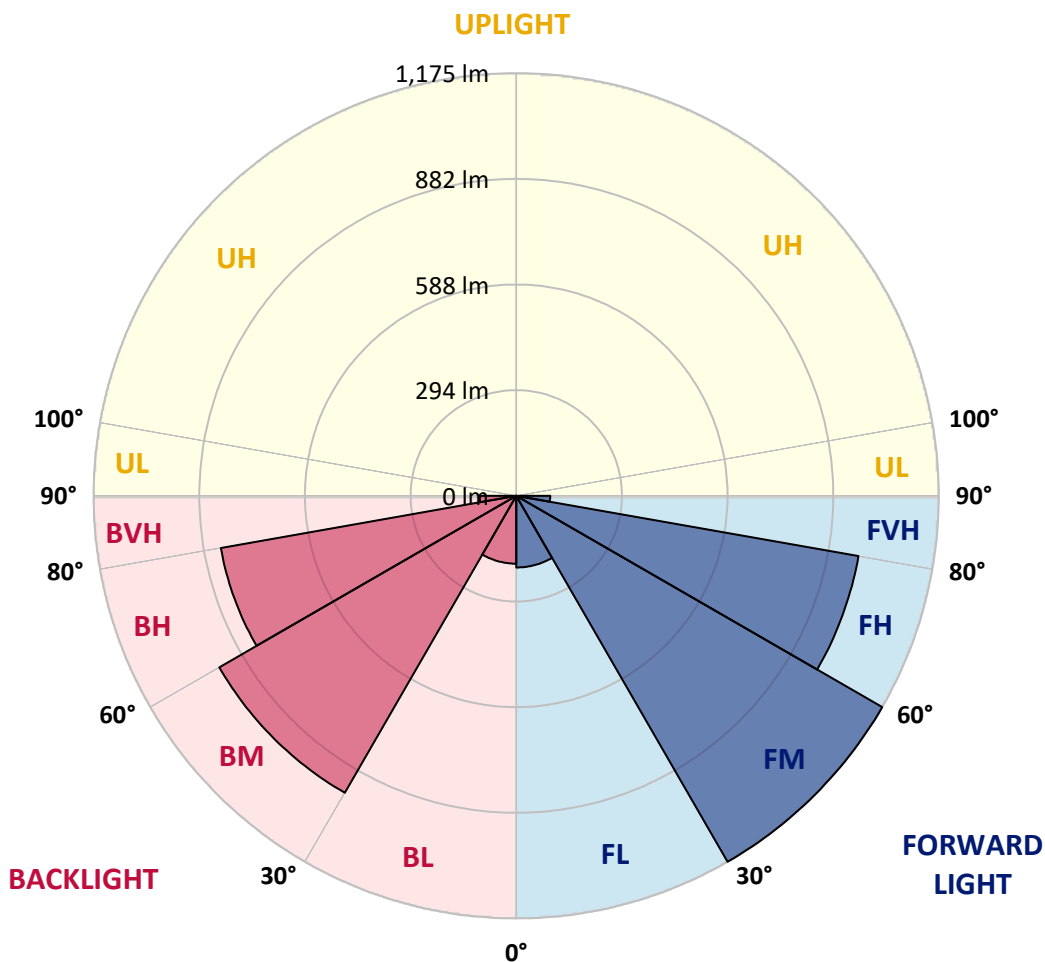


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	199.3	4.4			
FM (30°-60°)	1175.4	26.0			
FH (60°-80°)	966.5	21.4			G1/1800
FVH (80°-90°)	94.5	2.1			G1/100
BL (0°-30°)	188.8	4.2	B1/500		
BM (30°-60°)	953.8	21.1	B1/1000		
BH (60°-80°)	834.2	18.5	B2/1000		G2/1000
BVH (80°-90°)	101.7	2.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87°
0°	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5
2.5°	320.2	320.2	320.2	320.2	320.2	320.2	320.2	320.2	320.2	320.9	320.9
5°	322.4	321.6	321.6	322.4	323.1	323.8	325.3	326.0	327.5	328.9	328.2
7.5°	328.9	328.9	328.9	329.7	331.8	333.3	335.5	337.7	339.8	341.3	340.6
10°	339.1	339.1	339.1	340.6	342.8	347.1	350.8	354.4	356.6	358.0	358.8
12.5°	350.0	350.0	351.5	354.4	358.8	364.6	371.1	376.2	379.9	381.3	382.0
15°	365.3	366.0	369.0	371.9	377.7	386.4	397.3	404.6	408.2	411.2	410.4
17.5°	388.6	387.9	390.1	396.6	403.2	415.5	428.6	441.0	448.3	448.3	448.3
20°	414.8	414.1	415.5	420.6	431.5	448.3	468.6	485.4	493.4	491.9	493.4
22.5°	443.9	443.9	445.4	449.7	460.6	484.7	513.0	537.8	548.7	545.1	543.6
25°	475.9	475.9	478.1	481.7	497.0	526.1	564.0	599.6	610.6	606.9	605.5
27.5°	513.0	510.1	514.5	518.1	537.1	575.6	625.1	670.2	694.2	681.9	677.5
30°	552.3	550.2	550.9	558.2	580.0	629.5	688.4	748.8	782.3	774.3	767.7
32.5°	586.5	588.0	590.2	602.5	627.3	687.0	755.4	834.7	872.5	870.3	868.9
35°	625.1	625.1	629.5	641.1	677.5	748.1	831.0	920.6	976.6	978.8	974.4
37.5°	655.7	655.7	662.2	677.5	720.4	804.1	906.0	1011.5	1079.2	1090.8	1087.2
40°	682.6	681.1	688.4	711.0	761.2	863.8	979.5	1101.8	1192.7	1212.4	1207.3
42.5°	698.6	700.1	710.2	738.6	800.5	916.2	1051.5	1186.9	1293.1	1326.6	1326.6
45°	710.2	711.7	727.0	760.5	836.1	967.9	1117.0	1274.2	1391.4	1440.1	1442.3
47.5°	715.3	717.5	736.4	777.2	866.0	1015.2	1180.3	1352.8	1479.4	1548.6	1544.2
50°	715.3	718.3	740.8	789.6	892.9	1055.2	1240.0	1427.8	1568.9	1646.1	1645.4
52.5°	711.0	714.6	742.3	799.0	915.5	1093.8	1293.1	1491.8	1654.8	1745.8	1748.7
55°	702.2	706.6	738.6	804.8	932.9	1124.3	1336.1	1551.5	1729.0	1831.7	1838.2
57.5°	684.8	689.1	725.5	799.8	939.5	1140.3	1367.4	1593.7	1789.4	1909.5	1911.0
60°	655.7	660.8	700.1	783.0	932.9	1141.1	1375.4	1612.6	1830.2	1961.9	1967.0
62°	623.6	629.5	673.9	759.7	916.2	1129.4	1366.6	1611.9	1841.1	1977.2	1983.7
62.5°	615.6	620.7	665.9	751.7	909.6	1123.6	1361.5	1608.2	1839.7	1977.9	1983.0
65°	566.2	571.3	617.1	708.1	869.6	1087.9	1324.4	1576.2	1813.5	1948.8	1950.3
67.5°	511.6	516.7	562.5	648.4	812.1	1028.3	1261.9	1512.9	1743.6	1860.8	1871.7
70°	448.3	455.5	497.8	582.9	736.4	942.4	1162.9	1412.5	1632.3	1732.0	1742.1
72.5°	385.7	390.8	424.3	499.2	638.2	829.6	1034.8	1260.4	1460.5	1555.1	1563.9
75°	312.9	317.3	350.0	411.9	528.3	691.3	884.9	1082.1	1264.0	1349.2	1355.7
77.5°	246.7	248.1	271.4	320.9	410.4	542.1	702.2	858.0	1023.2	1100.3	1117.8
80°	173.9	181.2	197.2	231.4	288.2	388.6	504.3	637.5	753.2	839.8	845.6
82.5°	112.8	114.3	124.4	136.8	177.6	245.2	320.9	403.2	506.5	562.5	558.2
85°	58.9	58.9	62.6	66.2	80.0	109.9	155.0	212.5	272.9	315.1	309.3
87.5°	10.2	9.5	10.2	9.5	12.4	17.5	32.7	53.1	80.0	94.6	104.1
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°	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5
2.5°	320.9	320.9	321.6	323.1	323.1	323.8	324.6	324.6	325.3	326.0	326.0
5°	329.7	329.7	330.4	331.8	332.6	332.6	333.3	334.0	334.0	334.0	334.7
7.5°	341.3	342.0	342.8	343.5	344.2	344.2	346.4	345.7	345.7	345.7	345.7
10°	358.0	359.5	359.5	359.5	359.5	358.8	359.5	358.8	357.3	357.3	356.6
12.5°	382.8	382.8	381.3	379.9	377.7	377.0	376.2	374.0	371.1	369.7	369.7
15°	411.2	409.7	406.8	403.9	400.2	397.3	392.2	389.3	385.7	384.2	384.2
17.5°	447.5	445.4	437.4	431.5	422.8	416.3	410.4	404.6	400.2	398.8	398.1
20°	489.0	483.9	472.3	459.2	447.5	437.4	426.4	419.2	414.8	411.2	410.4
22.5°	541.4	534.1	513.8	493.4	472.3	457.7	443.9	433.7	425.7	422.1	420.6
25°	598.2	587.3	561.1	530.5	501.4	478.8	461.4	447.5	438.1	432.3	430.8
27.5°	670.2	654.2	615.6	569.8	531.2	502.8	478.8	462.8	450.5	441.7	440.3
30°	754.6	737.9	673.9	613.5	564.7	524.7	498.5	477.4	462.1	451.9	449.7
32.5°	855.1	824.5	751.0	665.9	598.9	550.2	516.7	491.9	473.0	461.4	458.5
35°	956.9	925.7	828.9	721.2	635.3	576.3	536.3	506.5	485.4	470.8	469.4
37.5°	1071.2	1033.4	919.8	783.7	674.6	604.0	554.5	520.3	494.8	479.6	478.1
40°	1194.2	1155.6	1017.3	855.8	721.2	630.9	572.0	533.4	505.0	488.3	486.1
42.5°	1315.0	1269.1	1116.3	927.8	768.5	660.8	592.4	547.2	513.8	496.3	493.4
45°	1419.8	1379.7	1216.7	1010.8	823.0	691.3	612.7	560.3	523.2	503.6	500.7
47.5°	1538.4	1495.4	1326.6	1087.2	875.4	726.3	632.4	572.0	531.2	510.1	507.9
50°	1643.2	1604.6	1424.1	1157.8	925.7	759.0	650.6	582.9	537.8	515.2	512.3
52.5°	1738.5	1704.3	1513.6	1224.0	968.6	789.6	667.3	590.9	542.1	517.4	513.8
55°	1834.6	1790.2	1591.5	1282.2	1002.8	813.6	681.1	594.5	541.4	515.9	512.3
57.5°	1906.6	1864.4	1648.3	1323.7	1028.3	829.6	689.1	593.8	537.1	509.4	505.0
60°	1955.4	1908.8	1681.7	1344.1	1037.0	834.7	689.1	587.3	526.1	496.3	491.9
62°	1973.6	1919.7	1688.3	1347.0	1033.4	829.6	684.0	576.3	511.6	482.5	478.1
62.5°	1974.3	1919.0	1686.1	1344.8	1031.2	827.4	681.1	572.7	507.9	478.1	473.7
65°	1942.3	1887.0	1659.9	1322.3	1006.4	807.8	660.8	551.6	482.5	453.4	449.0
67.5°	1850.6	1808.4	1597.3	1269.9	964.2	771.4	630.9	521.0	452.6	422.1	419.9
70°	1723.2	1684.7	1495.4	1190.5	903.1	719.0	586.5	480.3	414.8	387.1	382.0
72.5°	1563.1	1512.9	1350.6	1084.3	815.0	646.9	528.3	429.4	371.1	346.4	343.5
75°	1364.5	1304.1	1168.7	943.8	709.5	560.3	460.6	372.6	320.9	299.8	302.0
77.5°	1111.2	1082.8	944.6	752.5	577.8	463.6	377.7	315.8	271.4	254.0	252.5
80°	839.1	812.1	715.3	571.3	436.6	350.8	292.5	248.9	218.3	203.0	202.3
82.5°	569.1	543.6	470.1	383.5	297.6	248.1	211.8	183.4	164.5	157.2	157.2
85°	312.9	291.1	248.9	207.4	168.1	141.9	136.8	122.3	117.2	115.7	117.2
87.5°	97.5	96.8	82.2	67.7	58.9	59.7	53.9	55.3	52.4	51.7	55.3
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)