

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: P472271

Luminaire Tested: **CCW-VA-3-735-U-T4FT**

Issue Date: 01/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P472271  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-VA-3-735-U-T4FT  
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4FT DISTRIBUTION LENS  
Light Source: 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5120.8 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

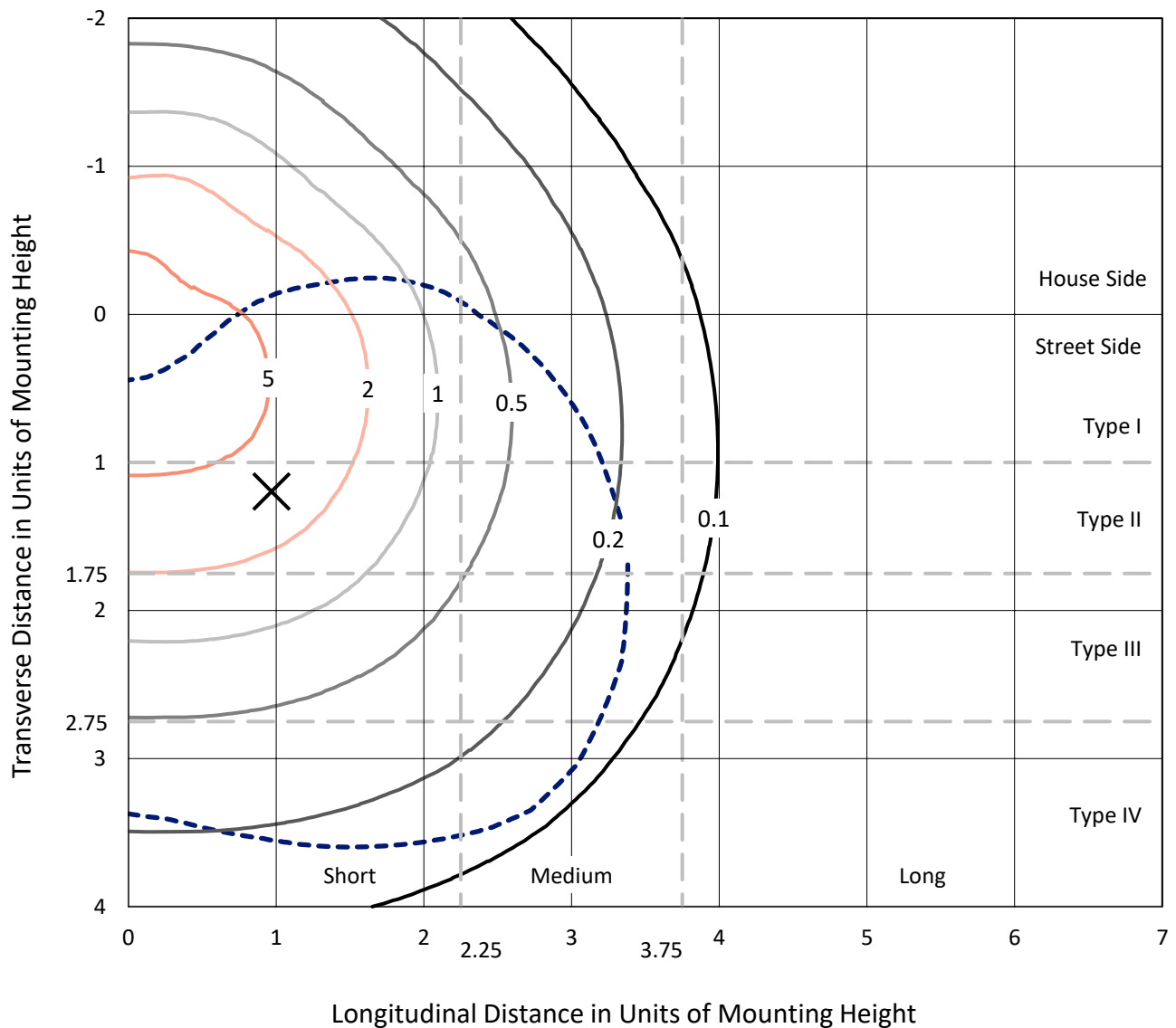
Input Watts (W): 49.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

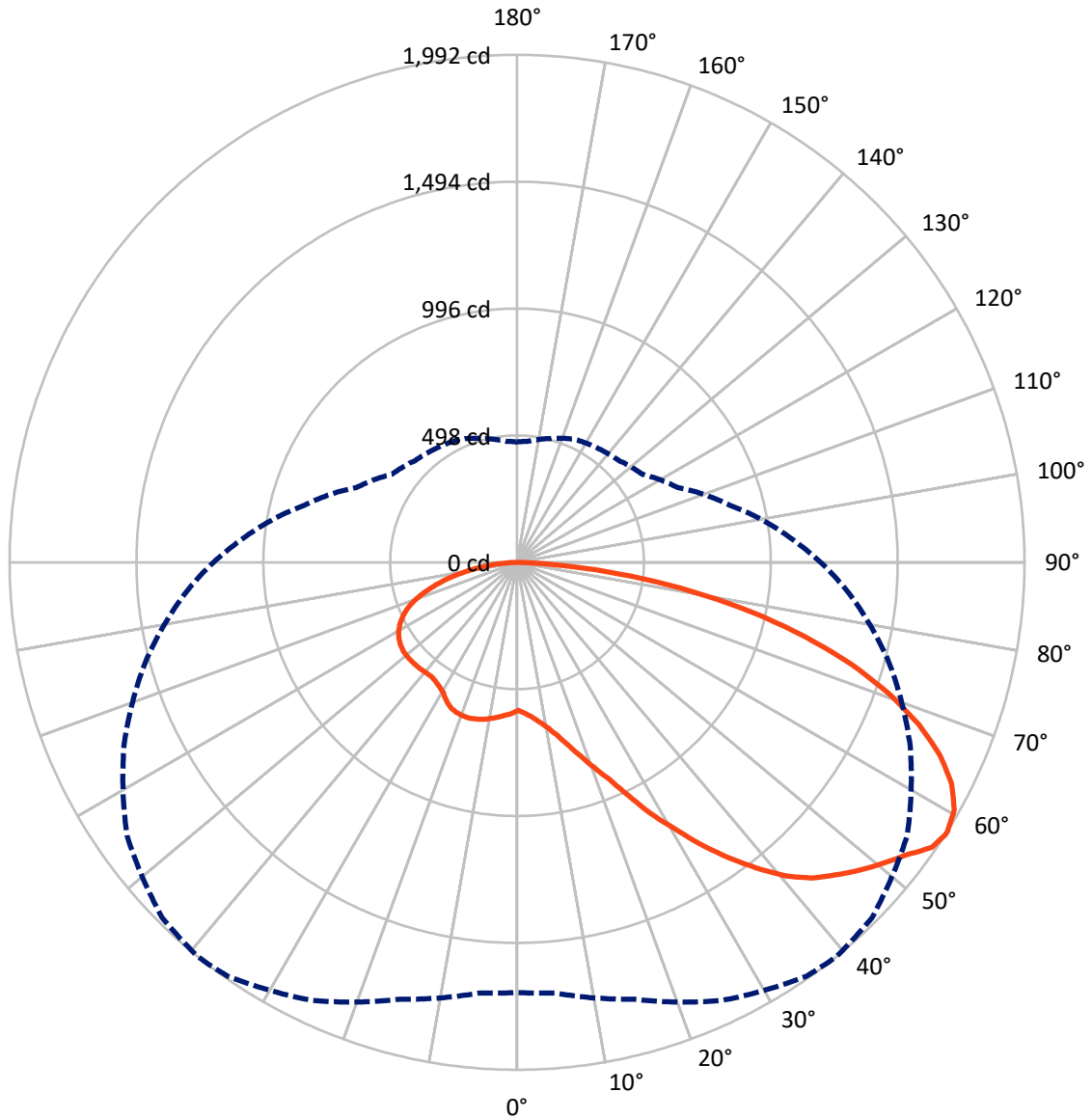
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 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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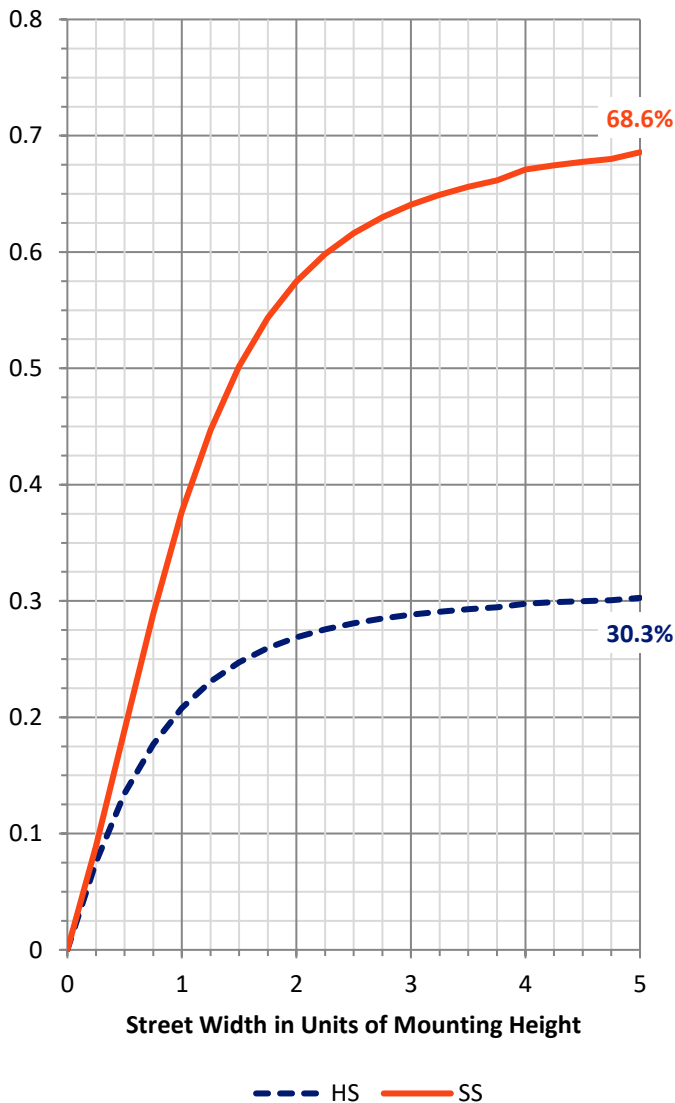
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1571.2	0.0	1571.2
	% Fixture	30.7	0.0	30.7
<b>Street Side</b>	Lumens	3549.5	0.0	3549.5
	% Fixture	69.3	0.0	69.3
<b>Total</b>	Lumens	5120.8	0.0	5120.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.8	1.1
10°-20°	196.1	3.8
20°-30°	378.8	7.4
30°-40°	612.7	12.0
40°-50°	860.8	16.8
50°-60°	1063.3	20.8
60°-70°	1056.8	20.6
70°-80°	715.1	14.0
80°-90°	178.5	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°	5120.8	100.0
0°-180°	5120.8	100.0

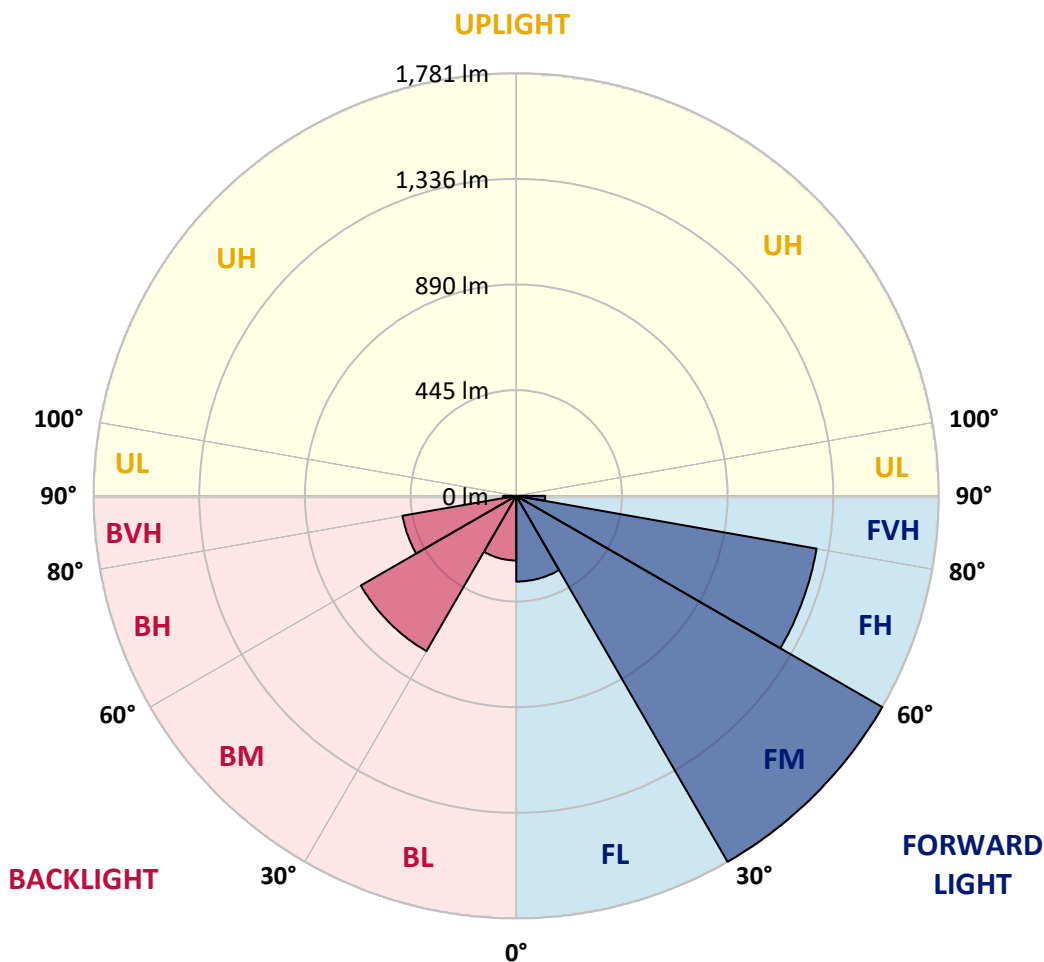


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	361.3	7.1			
FM (30°-60°)	1780.8	34.8			
FH (60°-80°)	1285.3	25.1			G1/1800
FVH (80°-90°)	122.1	2.4			G2/225
BL (0°-30°)	272.3	5.3	B1/500		
BM (30°-60°)	756.0	14.8	B1/1000		
BH (60°-80°)	486.6	9.5	B1/500		G1/500
BVH (80°-90°)	56.3	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°	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7
2.5°	597.9	597.1	596.4	596.4	594.8	593.2	592.4	590.9	591.7	593.2	594.0
5°	615.2	613.6	613.6	612.1	609.7	609.7	607.3	604.2	603.4	602.6	602.6
7.5°	641.9	639.5	640.3	638.0	635.6	632.5	628.5	624.6	623.0	617.6	612.8
10°	672.5	671.7	669.3	665.4	663.1	659.9	656.0	648.9	643.4	637.2	633.2
12.5°	708.6	707.0	707.8	704.7	700.7	695.2	689.0	681.9	671.7	659.9	652.1
15°	755.7	752.5	752.5	751.7	743.9	742.3	736.0	720.3	706.2	690.5	672.5
17.5°	812.9	812.2	809.0	805.9	801.2	795.7	789.4	772.1	750.9	726.6	702.3
20°	874.1	872.6	874.9	870.2	860.8	858.5	848.2	828.6	802.7	774.5	737.6
22.5°	940.8	942.4	942.4	940.8	933.0	923.6	914.9	889.1	859.2	824.7	781.6
25°	1021.7	1022.5	1027.2	1031.9	1027.2	1012.2	1000.5	960.5	920.4	876.5	825.5
27.5°	1112.7	1107.2	1120.5	1129.2	1120.5	1116.6	1090.7	1046.8	991.8	936.9	873.4
30°	1200.6	1200.6	1211.6	1224.1	1218.6	1209.2	1188.0	1131.5	1068.7	998.9	922.0
32.5°	1282.2	1291.6	1296.3	1325.3	1322.2	1317.5	1293.2	1218.6	1140.2	1060.9	969.1
35°	1378.7	1375.6	1395.2	1413.2	1427.4	1421.1	1403.0	1327.7	1224.9	1126.0	1020.9
37.5°	1451.7	1458.0	1475.2	1507.4	1517.6	1520.7	1498.0	1420.3	1303.4	1195.9	1078.2
40°	1507.4	1512.1	1545.1	1585.9	1607.0	1618.0	1595.3	1501.1	1377.1	1251.6	1122.9
42.5°	1552.1	1555.3	1589.8	1647.8	1683.2	1694.1	1673.7	1574.1	1439.9	1296.3	1159.8
45°	1581.9	1587.4	1628.2	1687.9	1742.8	1750.6	1740.4	1638.4	1495.6	1338.7	1186.5
47.5°	1607.8	1614.1	1659.6	1734.9	1796.2	1806.4	1796.9	1694.9	1549.0	1377.1	1209.2
50°	1642.4	1649.4	1694.9	1778.9	1846.4	1858.1	1855.0	1754.6	1599.2	1420.3	1232.7
52.5°	1675.3	1680.8	1734.9	1828.3	1901.3	1909.2	1906.8	1810.3	1650.2	1466.6	1262.6
55°	1701.2	1707.5	1771.8	1887.2	1965.6	1974.3	1957.8	1853.4	1690.2	1500.3	1290.8
57°	1687.9	1696.5	1775.0	1897.4	1982.1	1991.5	1970.4	1869.1	1702.0	1509.7	1301.0
57.5°	1683.9	1690.2	1771.8	1896.6	1982.9	1991.5	1970.4	1868.3	1701.2	1509.0	1301.0
60°	1626.7	1641.6	1733.4	1868.3	1960.2	1971.1	1950.7	1837.0	1681.6	1487.0	1279.8
62.5°	1549.8	1570.2	1666.7	1801.6	1905.2	1913.1	1892.7	1784.4	1637.6	1440.7	1235.9
65°	1439.1	1470.5	1571.7	1702.0	1814.2	1823.6	1803.2	1696.5	1564.7	1370.1	1170.0
67.5°	1330.8	1349.7	1458.0	1581.9	1686.3	1700.4	1683.2	1588.2	1464.2	1275.9	1082.1
70°	1207.6	1221.0	1310.4	1432.1	1537.2	1549.0	1534.1	1445.4	1328.5	1159.0	979.3
72.5°	1059.3	1073.5	1149.6	1261.8	1355.2	1374.0	1363.8	1272.0	1166.0	1019.3	864.7
75°	892.2	907.9	976.2	1065.6	1156.6	1167.6	1155.8	1088.4	992.6	860.0	725.1
77.5°	723.5	733.7	783.1	850.6	921.2	944.8	941.6	893.8	797.2	692.1	582.2
80°	541.4	543.0	568.9	624.6	681.1	698.4	702.3	659.1	595.6	516.3	436.3
82.5°	342.1	347.6	361.7	403.3	430.8	454.3	459.8	434.7	394.7	345.3	295.8
85°	159.3	154.6	165.6	179.7	218.9	218.9	226.0	212.7	200.9	184.4	153.0
87.5°	13.3	12.6	12.6	13.3	21.2	22.8	36.1	40.0	43.2	43.2	45.5
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°	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7
2.5°	592.4	591.7	589.3	589.3	590.9	593.2	594.0	594.8	595.6	596.4	596.4
5°	601.9	601.1	599.5	597.9	599.5	600.3	602.6	604.2	604.2	605.8	605.0
7.5°	610.5	611.3	609.7	608.9	608.9	610.5	613.6	616.0	617.6	618.3	619.9
10°	630.1	625.4	619.1	616.0	616.0	619.1	622.3	625.4	628.5	630.1	630.1
12.5°	647.4	641.9	630.1	625.4	624.6	627.8	631.7	636.4	638.7	641.1	641.1
15°	663.1	658.4	644.2	633.2	630.1	632.5	637.2	642.7	646.6	648.9	648.9
17.5°	692.9	678.8	659.9	641.9	635.6	636.4	641.9	647.4	652.1	653.6	652.9
20°	721.1	703.1	674.8	648.9	638.7	635.6	641.1	648.2	652.1	654.4	654.4
22.5°	753.3	733.7	689.7	656.0	637.2	632.5	637.2	643.4	648.2	649.7	651.3
25°	798.8	764.3	706.2	661.5	634.8	625.4	628.5	634.8	640.3	641.1	640.3
27.5°	839.6	800.4	728.2	667.0	629.3	612.1	608.9	613.6	622.3	627.8	629.3
30°	874.9	838.8	750.9	671.7	619.1	590.1	586.2	587.7	593.2	608.1	608.9
32.5°	927.5	871.8	773.7	675.6	607.3	578.3	572.8	571.3	572.8	580.7	580.7
35°	963.6	908.7	796.5	682.7	598.7	568.9	563.4	561.1	559.5	551.6	549.3
37.5°	1010.7	949.5	818.4	689.0	594.8	565.0	557.1	558.7	550.9	528.9	522.6
40°	1062.5	986.4	840.4	695.2	596.4	565.8	558.7	557.9	544.6	514.0	507.7
42.5°	1087.6	1017.7	863.2	703.9	602.6	568.1	561.8	559.5	543.0	508.5	499.8
45°	1111.9	1040.5	879.6	710.9	608.9	571.3	563.4	561.1	542.2	503.8	497.5
47.5°	1133.9	1054.6	887.5	714.9	613.6	573.6	564.2	560.3	538.3	501.4	495.1
50°	1144.1	1062.5	887.5	714.9	615.2	576.0	562.6	557.1	532.0	497.5	492.0
52.5°	1159.8	1067.2	880.4	710.1	612.8	576.0	559.5	550.9	524.2	492.0	487.3
55°	1183.3	1075.8	871.0	703.1	607.3	571.3	554.0	542.2	513.2	484.2	480.2
57°	1191.2	1078.9	864.7	694.5	601.1	565.0	547.7	532.8	503.0	476.3	472.4
57.5°	1189.6	1077.4	862.4	692.1	598.7	562.6	546.1	530.5	500.6	474.7	470.8
60°	1168.4	1062.5	847.5	677.2	586.2	550.1	532.0	514.8	484.2	461.4	458.3
62.5°	1133.9	1028.7	820.8	657.6	568.9	532.8	514.0	494.4	463.8	444.1	442.6
65°	1075.0	972.2	782.3	629.3	546.9	510.0	489.6	468.5	441.8	424.5	419.8
67.5°	976.9	896.9	728.2	590.1	513.2	481.8	459.8	437.9	413.5	398.6	395.5
70°	895.3	814.5	659.1	540.7	472.4	442.6	422.2	401.0	379.8	366.5	365.7
72.5°	791.8	714.1	572.8	479.4	420.6	391.6	375.9	357.0	340.6	328.8	328.8
75°	666.2	605.0	483.4	406.5	358.6	337.4	324.1	309.2	295.0	287.2	288.8
77.5°	529.7	483.4	394.7	328.8	293.5	279.3	266.8	258.2	249.5	242.5	243.3
80°	390.8	356.2	290.3	241.7	224.4	211.9	209.5	204.0	199.3	197.0	193.0
82.5°	267.6	237.0	193.0	165.6	153.0	149.1	149.9	149.9	150.7	150.7	149.1
85°	138.9	127.1	98.1	88.7	87.1	91.0	95.7	98.9	98.1	98.1	95.7
87.5°	40.0	36.1	31.4	28.2	29.8	32.2	28.2	27.5	26.7	25.9	25.9
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)