

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: P472275

Luminaire Tested: **CCW-VA-3-740-U-T4FT**

Issue Date: 01/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P472275  
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-T4FT  
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4FT DISTRIBUTION LENS  
Light Source: 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5275.9 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

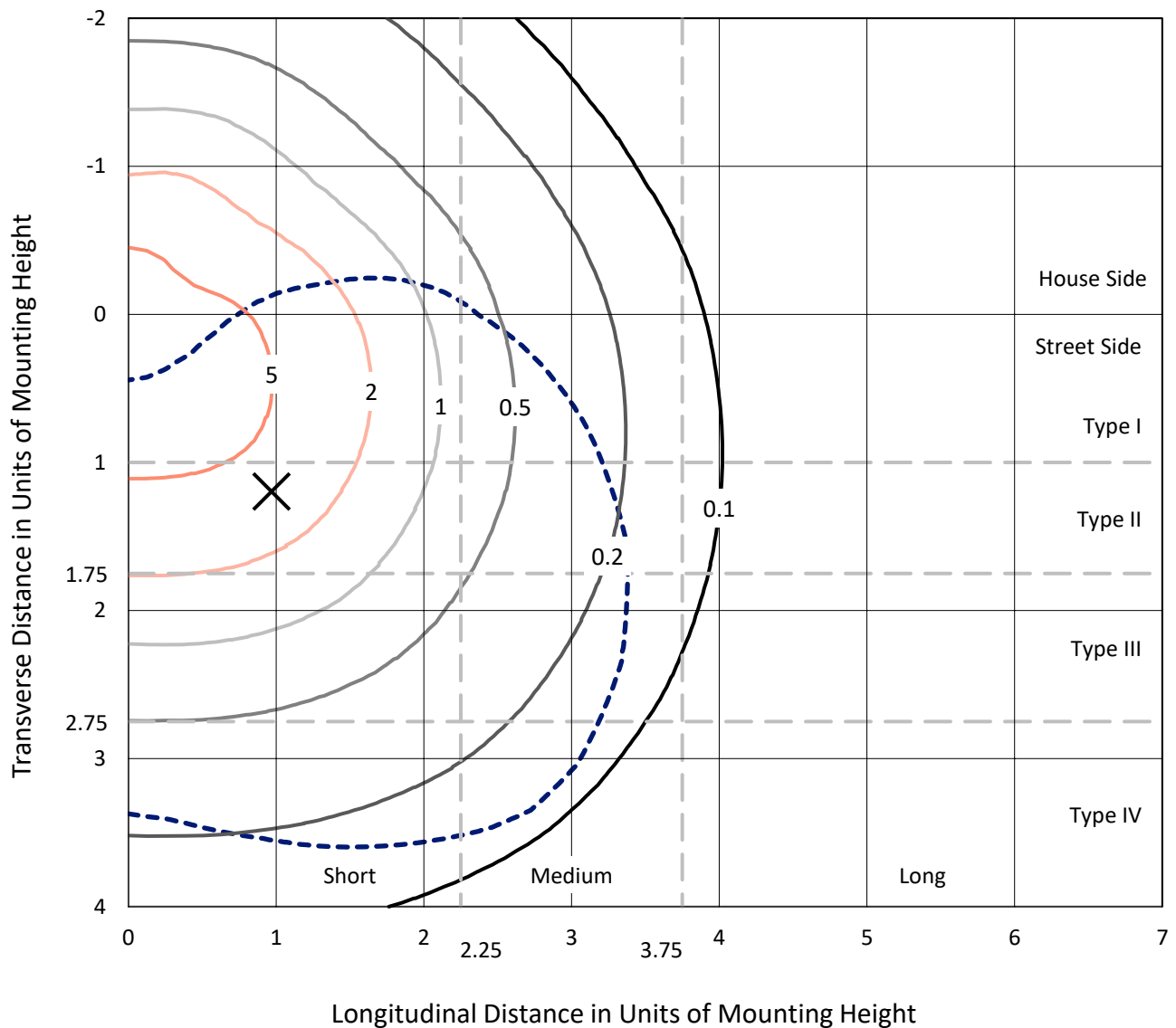
Input Watts (W): 49.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

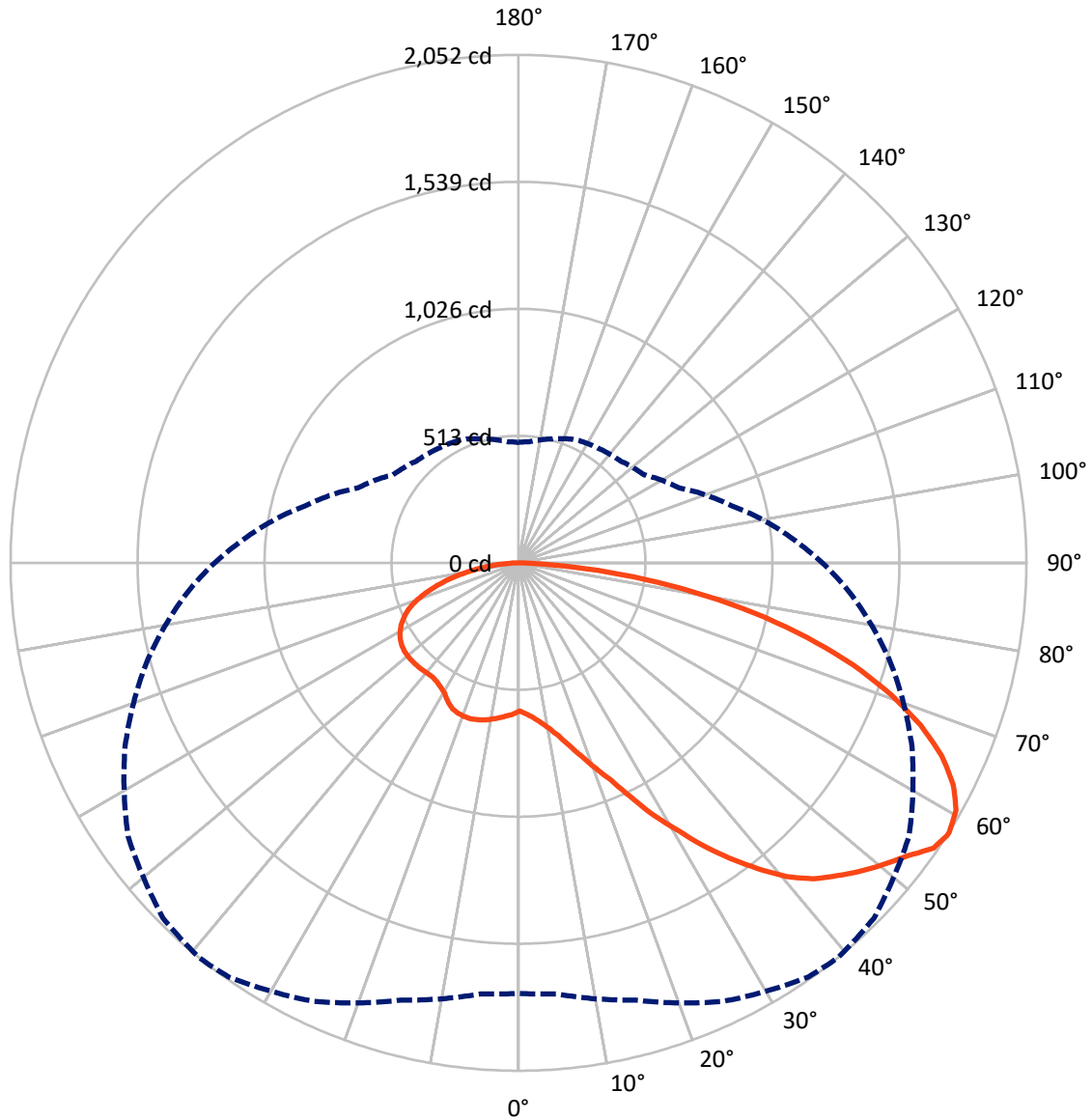
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 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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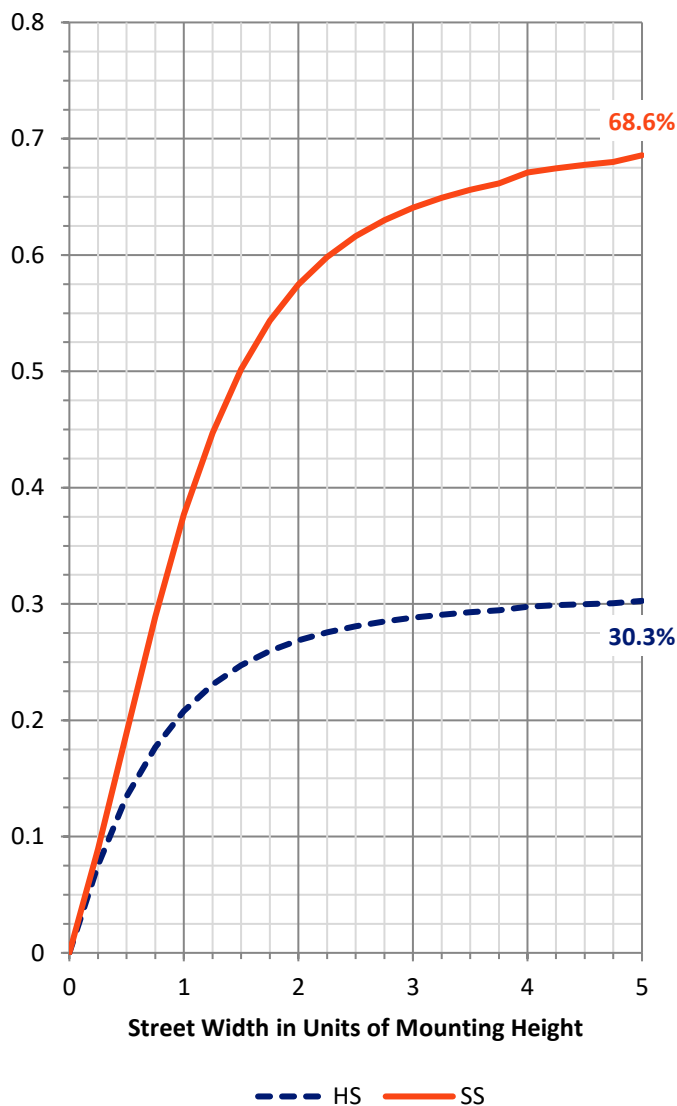
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1618.8	0.0	1618.8
	% Fixture	30.7	0.0	30.7
<b>Street Side</b>	Lumens	3657.0	0.0	3657.0
	% Fixture	69.3	0.0	69.3
<b>Total</b>	Lumens	5275.9	0.0	5275.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.6	1.1
10°-20°	202.0	3.8
20°-30°	390.2	7.4
30°-40°	631.2	12.0
40°-50°	886.8	16.8
50°-60°	1095.5	20.8
60°-70°	1088.8	20.6
70°-80°	736.8	14.0
80°-90°	183.9	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°	5275.9	100.0
0°-180°	5275.9	100.0

**Coefficient of Utilization**

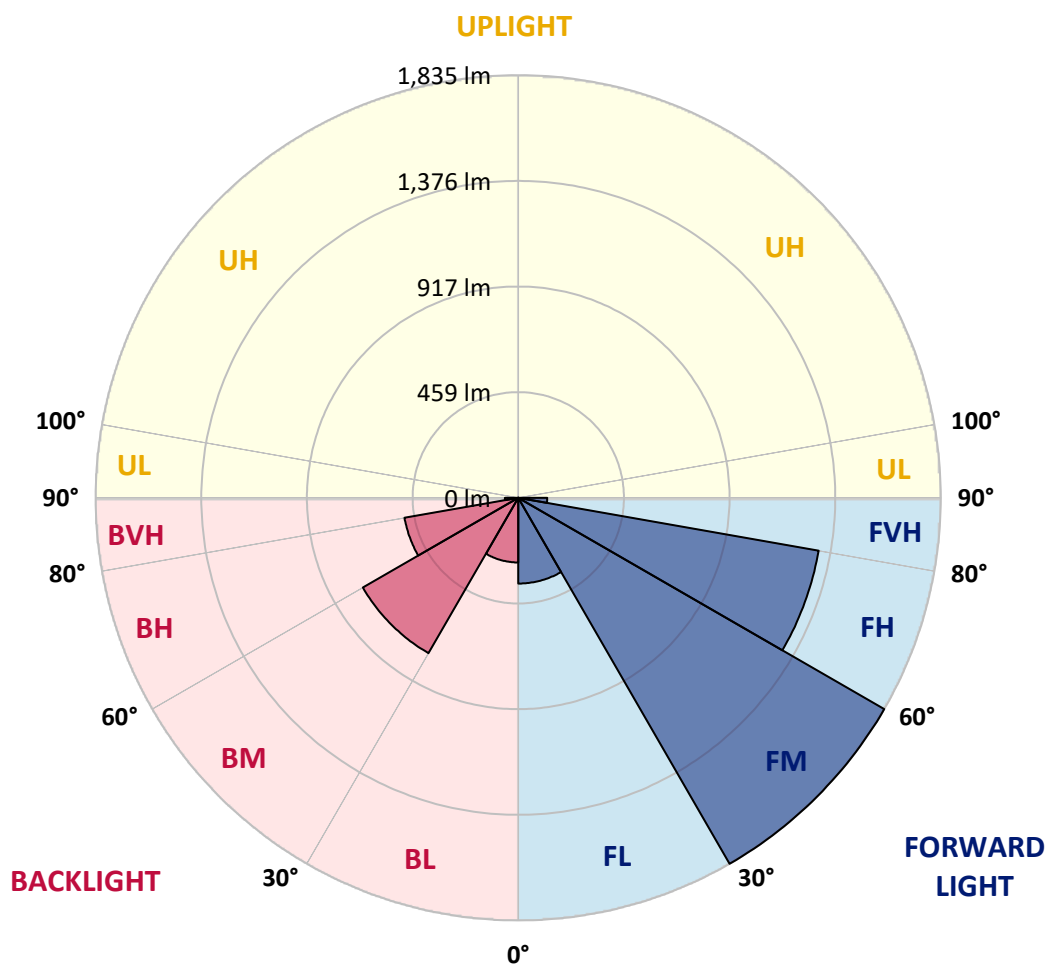


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	372.3	7.1			
FM (30°-60°)	1834.7	34.8			
FH (60°-80°)	1324.3	25.1			G1/1800
FVH (80°-90°)	125.8	2.4			G2/225
BL (0°-30°)	280.6	5.3	B1/500		
BM (30°-60°)	778.9	14.8	B1/1000		
BH (60°-80°)	501.3	9.5	B2/1000		G2/1000
BVH (80°-90°)	58.0	1.1			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°	39°	45°	55°	65°	75°	85°
0°	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3
2.5°	616.0	615.2	614.4	614.4	612.8	611.2	610.4	608.8	609.6	611.2	612.0
5°	633.8	632.2	632.2	630.6	628.2	628.2	625.7	622.5	621.7	620.9	620.9
7.5°	661.3	658.9	659.7	657.3	654.9	651.6	647.6	643.5	641.9	636.3	631.4
10°	692.8	692.0	689.6	685.6	683.1	679.9	675.9	668.6	662.9	656.5	652.4
12.5°	730.0	728.4	729.2	726.0	722.0	716.3	709.8	702.6	692.0	679.9	671.8
15°	778.5	775.3	775.3	774.5	766.4	764.8	758.3	742.2	727.6	711.4	692.8
17.5°	837.6	836.8	833.5	830.3	825.4	819.8	813.3	795.5	773.7	748.6	723.6
20°	900.6	899.0	901.4	896.6	886.9	884.5	873.9	853.7	827.1	797.9	760.0
22.5°	969.3	971.0	971.0	969.3	961.3	951.6	942.7	916.0	885.3	849.7	805.2
25°	1052.6	1053.4	1058.3	1063.1	1058.3	1042.9	1030.8	989.6	948.3	903.0	850.5
27.5°	1146.4	1140.7	1154.5	1163.4	1154.5	1150.4	1123.8	1078.5	1021.9	965.3	899.8
30°	1236.9	1236.9	1248.3	1261.2	1255.5	1245.8	1224.0	1165.8	1101.1	1029.2	949.9
32.5°	1321.0	1330.7	1335.6	1365.5	1362.3	1357.4	1332.3	1255.5	1174.7	1093.0	998.4
35°	1420.5	1417.2	1437.4	1456.0	1470.6	1464.1	1445.5	1367.9	1262.0	1160.1	1051.8
37.5°	1495.6	1502.1	1519.9	1553.0	1563.6	1566.8	1543.3	1463.3	1342.8	1232.1	1110.8
40°	1553.0	1557.9	1591.9	1633.9	1655.7	1667.0	1643.6	1546.6	1418.8	1289.5	1156.9
42.5°	1599.1	1602.4	1637.9	1697.8	1734.1	1745.5	1724.4	1621.8	1483.5	1335.6	1194.9
45°	1629.9	1635.5	1677.6	1739.0	1795.6	1803.7	1793.2	1688.1	1540.9	1379.2	1222.4
47.5°	1656.5	1663.0	1709.9	1787.5	1850.6	1861.1	1851.4	1746.3	1595.9	1418.8	1245.8
50°	1692.1	1699.4	1746.3	1832.8	1902.3	1914.4	1911.2	1807.7	1647.6	1463.3	1270.1
52.5°	1726.1	1731.7	1787.5	1883.7	1958.9	1967.0	1964.6	1865.1	1700.2	1511.0	1300.8
55°	1752.7	1759.2	1825.5	1944.3	2025.2	2034.1	2017.1	1909.6	1741.4	1545.8	1329.9
57°	1739.0	1747.9	1828.7	1954.9	2042.2	2051.9	2030.0	1925.7	1753.5	1555.5	1340.4
57.5°	1735.0	1741.4	1825.5	1954.0	2043.0	2051.9	2030.0	1924.9	1752.7	1554.7	1340.4
60°	1675.9	1691.3	1785.9	1924.9	2019.5	2030.8	2009.8	1892.6	1732.5	1532.0	1318.6
62.5°	1596.7	1617.7	1717.2	1856.2	1962.9	1971.0	1950.0	1838.4	1687.3	1484.3	1273.3
65°	1482.7	1515.1	1619.3	1753.5	1869.2	1878.9	1857.8	1747.9	1612.1	1411.6	1205.4
67.5°	1371.1	1390.5	1502.1	1629.9	1737.4	1751.9	1734.1	1636.3	1508.6	1314.6	1114.9
70°	1244.2	1258.0	1350.1	1475.4	1583.8	1595.9	1580.5	1489.2	1368.7	1194.1	1009.0
72.5°	1091.4	1106.0	1184.4	1300.0	1396.2	1415.6	1405.1	1310.5	1201.4	1050.2	890.9
75°	919.2	935.4	1005.7	1097.9	1191.7	1203.0	1190.9	1121.3	1022.7	886.1	747.0
77.5°	745.4	755.9	806.8	876.4	949.1	973.4	970.2	920.8	821.4	713.1	599.9
80°	557.8	559.5	586.1	643.5	701.7	719.5	723.6	679.1	613.6	532.0	449.5
82.5°	352.5	358.1	372.7	415.5	443.8	468.1	473.8	447.9	406.7	355.7	304.8
85°	164.1	159.3	170.6	185.1	225.6	225.6	232.8	219.1	207.0	190.0	157.6
87.5°	13.7	12.9	12.9	13.7	21.8	23.4	37.2	41.2	44.5	44.5	46.9
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°	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3
2.5°	610.4	609.6	607.2	607.2	608.8	611.2	612.0	612.8	613.6	614.4	614.4
5°	620.1	619.3	617.7	616.0	617.7	618.5	620.9	622.5	622.5	624.1	623.3
7.5°	629.0	629.8	628.2	627.4	627.4	629.0	632.2	634.6	636.3	637.1	638.7
10°	649.2	644.3	637.9	634.6	634.6	637.9	641.1	644.3	647.6	649.2	649.2
12.5°	667.0	661.3	649.2	644.3	643.5	646.8	650.8	655.7	658.1	660.5	660.5
15°	683.1	678.3	663.7	652.4	649.2	651.6	656.5	662.1	666.2	668.6	668.6
17.5°	713.9	699.3	679.9	661.3	654.9	655.7	661.3	667.0	671.8	673.4	672.6
20°	743.0	724.4	695.3	668.6	658.1	654.9	660.5	667.8	671.8	674.3	674.3
22.5°	776.1	755.9	710.6	675.9	656.5	651.6	656.5	662.9	667.8	669.4	671.0
25°	823.0	787.4	727.6	681.5	654.0	644.3	647.6	654.0	659.7	660.5	659.7
27.5°	865.1	824.6	750.2	687.2	648.4	630.6	627.4	632.2	641.1	646.8	648.4
30°	901.4	864.2	773.7	692.0	637.9	608.0	603.9	605.5	611.2	626.6	627.4
32.5°	955.6	898.2	797.1	696.1	625.7	595.8	590.2	588.6	590.2	598.3	598.3
35°	992.8	936.2	820.6	703.4	616.9	586.1	580.5	578.0	576.4	568.3	565.9
37.5°	1041.3	978.2	843.2	709.8	612.8	582.1	574.0	575.6	567.5	544.9	538.4
40°	1094.7	1016.2	865.9	716.3	614.4	582.9	575.6	574.8	561.1	529.5	523.1
42.5°	1120.5	1048.6	889.3	725.2	620.9	585.3	578.9	576.4	559.5	523.9	515.0
45°	1145.6	1072.0	906.3	732.5	627.4	588.6	580.5	578.0	558.6	519.0	512.6
47.5°	1168.2	1086.6	914.4	736.5	632.2	591.0	581.3	577.2	554.6	516.6	510.1
50°	1178.7	1094.7	914.4	736.5	633.8	593.4	579.7	574.0	548.1	512.6	506.9
52.5°	1194.9	1099.5	907.1	731.7	631.4	593.4	576.4	567.5	540.1	506.9	502.1
55°	1219.2	1108.4	897.4	724.4	625.7	588.6	570.8	558.6	528.7	498.8	494.8
57°	1227.2	1111.6	890.9	715.5	619.3	582.1	564.3	548.9	518.2	490.7	486.7
57.5°	1225.6	1110.0	888.5	713.1	616.9	579.7	562.7	546.5	515.8	489.1	485.1
60°	1203.8	1094.7	873.1	697.7	603.9	566.7	548.1	530.3	498.8	475.4	472.1
62.5°	1168.2	1059.9	845.6	677.5	586.1	548.9	529.5	509.3	477.8	457.6	456.0
65°	1107.6	1001.7	806.0	648.4	563.5	525.5	504.5	482.6	455.2	437.4	432.5
67.5°	1006.5	924.1	750.2	608.0	528.7	496.4	473.8	451.1	426.1	410.7	407.5
70°	922.5	839.2	679.1	557.0	486.7	456.0	435.0	413.1	391.3	377.6	376.7
72.5°	815.7	735.7	590.2	494.0	433.3	403.4	387.3	367.8	350.9	338.7	338.7
75°	686.4	623.3	498.0	418.8	369.5	347.6	333.9	318.5	304.0	295.9	297.5
77.5°	545.7	498.0	406.7	338.7	302.4	287.8	274.9	266.0	257.1	249.8	250.6
80°	402.6	367.0	299.1	249.0	231.2	218.3	215.9	210.2	205.3	202.9	198.9
82.5°	275.7	244.2	198.9	170.6	157.6	153.6	154.4	154.4	155.2	155.2	153.6
85°	143.1	131.0	101.1	91.4	89.7	93.8	98.6	101.9	101.1	101.1	98.6
87.5°	41.2	37.2	32.3	29.1	30.7	33.1	29.1	28.3	27.5	26.7	26.7
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)