

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: P472276

Luminaire Tested: **CCW-VA-4-740-U-T4FT**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472276
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-4-740-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: 6452.9 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

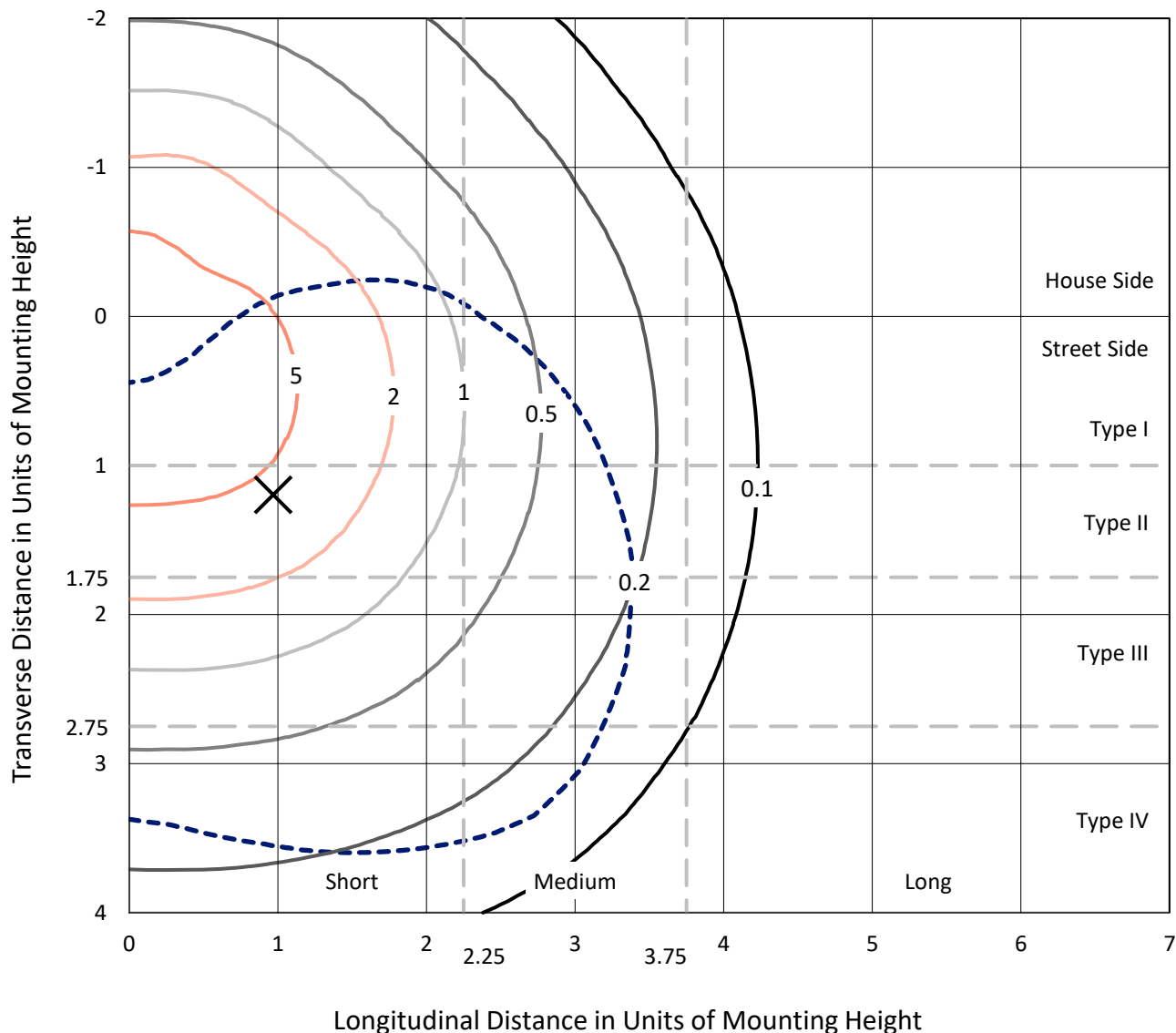
Input Watts (W): 64.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

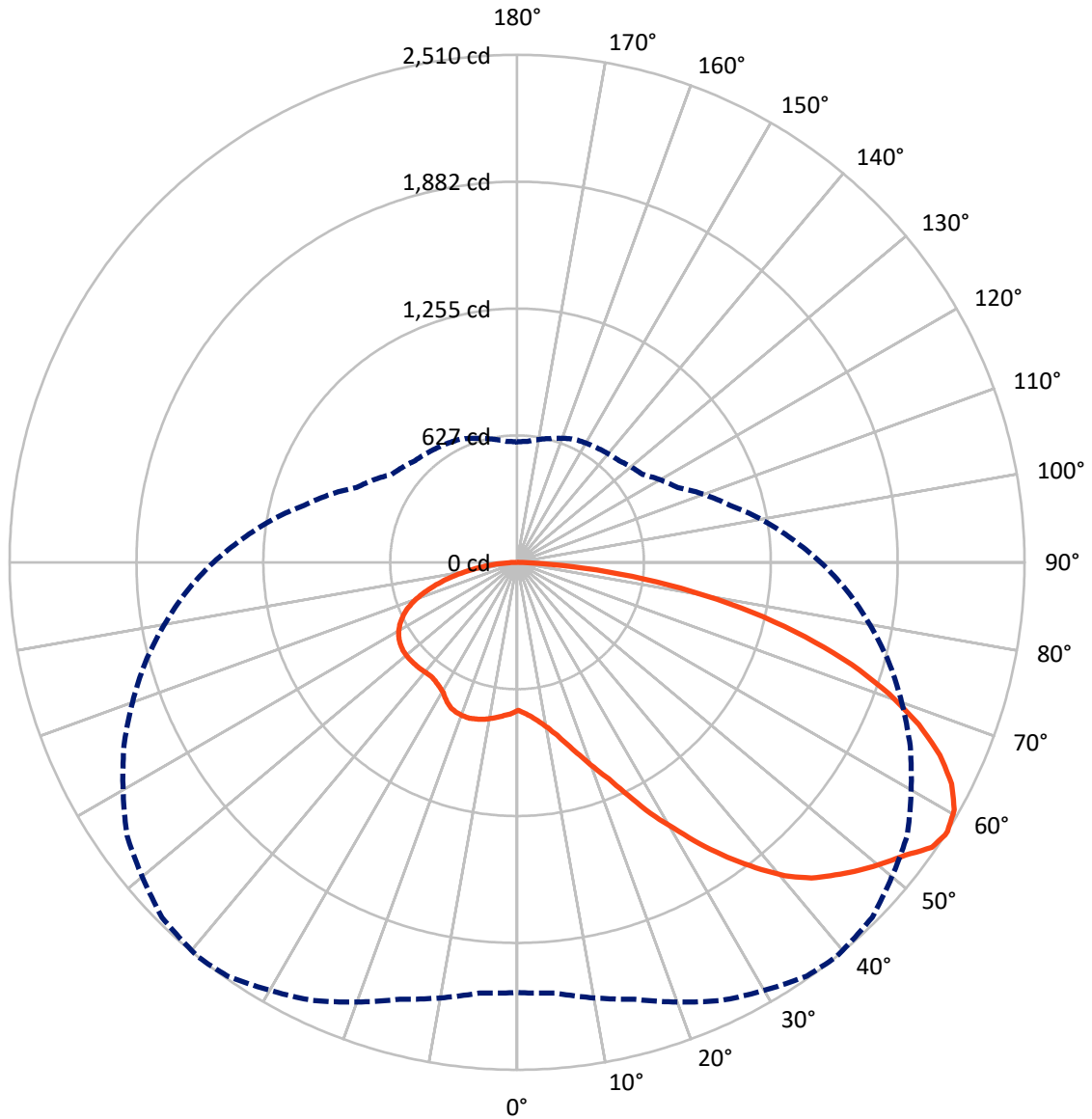
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10 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	1980.0	0.0	1980.0
	% Fixture	30.7	0.0	30.7
Street Side	Lumens	4472.9	0.0	4472.9
	% Fixture	69.3	0.0	69.3
Total	Lumens	6452.9	0.0	6452.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	1.1
10°-20°	247.1	3.8
20°-30°	477.3	7.4
30°-40°	772.1	12.0
40°-50°	1084.7	16.8
50°-60°	1339.9	20.8
60°-70°	1331.7	20.6
70°-80°	901.1	14.0
80°-90°	224.9	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°	6452.9	100.0
0°-180°	6452.9	100.0

Coefficient of Utilization



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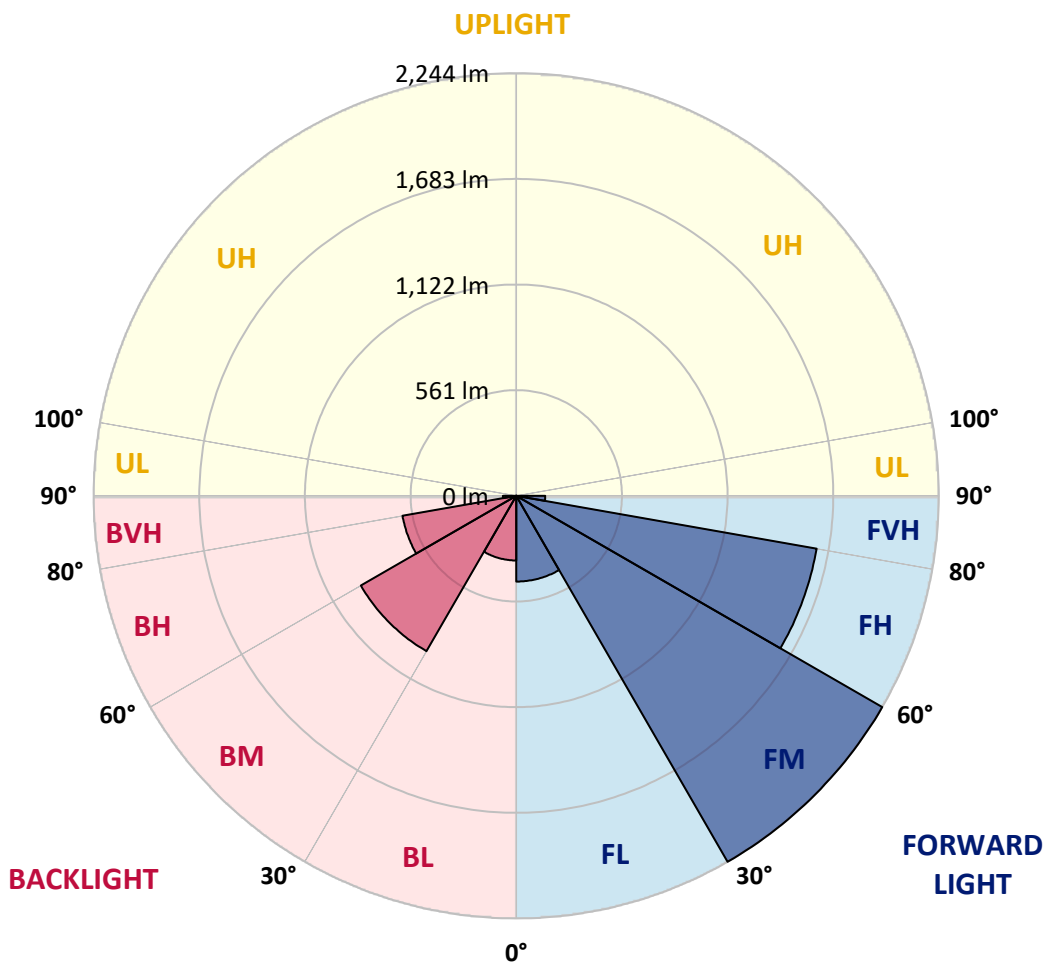
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	455.3	7.1			
FM (30°-60°)	2244.0	34.8			
FH (60°-80°)	1619.7	25.1			G1/1800
FVH (80°-90°)	153.9	2.4			G2/225
BL (0°-30°)	343.2	5.3	B1/500		
BM (30°-60°)	952.6	14.8	B1/1000		
BH (60°-80°)	613.2	9.5	B2/1000		G2/1000
BVH (80°-90°)	71.0	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°	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7
2.5°	753.5	752.5	751.5	751.5	749.5	747.5	746.6	744.6	745.6	747.5	748.5
5°	775.2	773.3	773.3	771.3	768.3	768.3	765.3	761.4	760.4	759.4	759.4
7.5°	808.8	805.9	806.9	803.9	800.9	797.0	792.0	787.1	785.1	778.2	772.3
10°	847.4	846.4	843.5	838.5	835.5	831.6	826.6	817.7	810.8	802.9	798.0
12.5°	892.9	890.9	891.9	888.0	883.0	876.1	868.2	859.3	846.4	831.6	821.7
15°	952.2	948.3	948.3	947.3	937.4	935.4	927.5	907.7	889.9	870.2	847.4
17.5°	1024.4	1023.4	1019.5	1015.5	1009.6	1002.7	994.7	973.0	946.3	915.6	885.0
20°	1101.5	1099.6	1102.5	1096.6	1084.7	1081.8	1068.9	1044.2	1011.6	976.0	929.5
22.5°	1185.6	1187.6	1187.6	1185.6	1175.7	1163.8	1153.0	1120.3	1082.8	1039.2	984.9
25°	1287.4	1288.4	1294.4	1300.3	1294.4	1275.6	1260.7	1210.3	1159.9	1104.5	1040.2
27.5°	1402.1	1395.2	1412.0	1422.9	1412.0	1407.1	1374.5	1319.1	1249.9	1180.6	1100.5
30°	1512.9	1512.9	1526.7	1542.5	1535.6	1523.8	1497.1	1425.9	1346.8	1258.8	1161.9
32.5°	1615.7	1627.6	1633.5	1670.1	1666.2	1660.2	1629.6	1535.6	1436.7	1336.9	1221.2
35°	1737.3	1733.4	1758.1	1780.9	1798.7	1790.7	1768.0	1673.1	1543.5	1418.9	1286.4
37.5°	1829.3	1837.2	1859.0	1899.5	1912.4	1916.3	1887.6	1789.8	1642.4	1507.0	1358.6
40°	1899.5	1905.4	1947.0	1998.4	2025.1	2038.9	2010.3	1891.6	1735.4	1577.2	1415.0
42.5°	1955.9	1959.8	2003.3	2076.5	2121.0	2134.8	2109.1	1983.6	1814.5	1633.5	1461.5
45°	1993.4	2000.4	2051.8	2126.9	2196.2	2206.0	2193.2	2064.6	1884.7	1686.9	1495.1
47.5°	2026.1	2034.0	2091.3	2186.3	2263.4	2276.2	2264.4	2135.8	1951.9	1735.4	1523.8
50°	2069.6	2078.5	2135.8	2241.6	2326.7	2341.5	2337.6	2211.0	2015.2	1789.8	1553.4
52.5°	2111.1	2118.0	2186.3	2303.9	2395.9	2405.8	2402.8	2281.2	2079.5	1848.1	1591.0
55°	2143.7	2151.7	2232.7	2378.1	2477.0	2487.9	2467.1	2335.6	2129.9	1890.6	1626.6
57°	2126.9	2137.8	2236.7	2391.0	2497.7	2509.6	2482.9	2355.4	2144.7	1902.5	1639.5
57.5°	2122.0	2129.9	2232.7	2390.0	2498.7	2509.6	2482.9	2354.4	2143.7	1901.5	1639.5
60°	2049.8	2068.6	2184.3	2354.4	2470.1	2483.9	2458.2	2314.8	2119.0	1873.8	1612.8
62.5°	1952.9	1978.6	2100.2	2270.3	2400.8	2410.7	2385.0	2248.6	2063.7	1815.5	1557.4
65°	1813.5	1853.0	1980.6	2144.7	2286.1	2298.0	2272.3	2137.8	1971.7	1726.5	1474.3
67.5°	1677.0	1700.8	1837.2	1993.4	2125.0	2142.8	2121.0	2001.4	1845.1	1607.8	1363.6
70°	1521.8	1538.6	1651.3	1804.6	1937.1	1951.9	1933.1	1821.4	1674.1	1460.5	1234.0
72.5°	1334.9	1352.7	1448.6	1590.0	1707.7	1731.4	1718.6	1602.9	1469.4	1284.5	1089.7
75°	1124.3	1144.1	1230.1	1342.8	1457.5	1471.4	1456.5	1371.5	1250.8	1083.7	913.7
77.5°	911.7	924.5	986.8	1071.9	1160.9	1190.5	1186.6	1126.3	1004.6	872.1	733.7
80°	682.3	684.3	716.9	787.1	858.3	880.0	885.0	830.6	750.5	650.6	549.8
82.5°	431.1	438.0	455.8	508.3	542.9	572.5	579.4	547.8	497.4	435.1	372.8
85°	200.7	194.8	208.6	226.4	275.9	275.9	284.8	268.0	253.1	232.4	192.8
87.5°	16.8	15.8	15.8	16.8	26.7	28.7	45.5	50.4	54.4	54.4	57.4
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°	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7
2.5°	746.6	745.6	742.6	742.6	744.6	747.5	748.5	749.5	750.5	751.5	751.5
5°	758.4	757.4	755.5	753.5	755.5	756.4	759.4	761.4	761.4	763.4	762.4
7.5°	769.3	770.3	768.3	767.3	767.3	769.3	773.3	776.2	778.2	779.2	781.2
10°	794.0	788.1	780.2	776.2	776.2	780.2	784.1	788.1	792.0	794.0	794.0
12.5°	815.8	808.8	794.0	788.1	787.1	791.1	796.0	801.9	804.9	807.9	807.9
15°	835.5	829.6	811.8	798.0	794.0	797.0	802.9	809.8	814.8	817.7	817.7
17.5°	873.1	855.3	831.6	808.8	800.9	801.9	808.8	815.8	821.7	823.7	822.7
20°	908.7	886.0	850.4	817.7	804.9	800.9	807.9	816.8	821.7	824.7	824.7
22.5°	949.3	924.5	869.2	826.6	802.9	797.0	802.9	810.8	816.8	818.7	820.7
25°	1006.6	963.1	889.9	833.6	800.0	788.1	792.0	800.0	806.9	807.9	806.9
27.5°	1058.0	1008.6	917.6	840.5	793.0	771.3	767.3	773.3	784.1	791.1	793.0
30°	1102.5	1057.0	946.3	846.4	780.2	743.6	738.6	740.6	747.5	766.3	767.3
32.5°	1168.8	1098.6	975.0	851.4	765.3	728.8	721.8	719.9	721.8	731.7	731.7
35°	1214.3	1145.0	1003.6	860.3	754.5	716.9	710.0	707.0	705.0	695.1	692.2
37.5°	1273.6	1196.5	1031.3	868.2	749.5	711.9	702.1	704.0	694.1	666.5	658.6
40°	1338.9	1242.9	1059.0	876.1	751.5	712.9	704.0	703.0	686.2	647.7	639.8
42.5°	1370.5	1282.5	1087.7	887.0	759.4	715.9	708.0	705.0	684.3	640.8	629.9
45°	1401.1	1311.2	1108.5	895.9	767.3	719.9	710.0	707.0	683.3	634.8	626.9
47.5°	1428.8	1329.0	1118.3	900.8	773.3	722.8	711.0	706.0	678.3	631.9	623.9
50°	1441.7	1338.9	1118.3	900.8	775.2	725.8	709.0	702.1	670.4	626.9	620.0
52.5°	1461.5	1344.8	1109.4	894.9	772.3	725.8	705.0	694.1	660.5	620.0	614.1
55°	1491.1	1355.7	1097.6	886.0	765.3	719.9	698.1	683.3	646.7	610.1	605.2
57°	1501.0	1359.6	1089.7	875.1	757.4	711.9	690.2	671.4	633.8	600.2	595.3
57.5°	1499.0	1357.6	1086.7	872.1	754.5	709.0	688.2	668.4	630.9	598.2	593.3
60°	1472.3	1338.9	1067.9	853.3	738.6	693.2	670.4	648.7	610.1	581.4	577.5
62.5°	1428.8	1296.3	1034.3	828.6	716.9	671.4	647.7	623.0	584.4	559.7	557.7
65°	1354.7	1225.1	985.8	793.0	689.2	642.7	617.0	590.3	556.7	534.9	529.0
67.5°	1231.1	1130.2	917.6	743.6	646.7	607.1	579.4	551.8	521.1	502.3	498.4
70°	1128.2	1026.4	830.6	681.3	595.3	557.7	532.0	505.3	478.6	461.8	460.8
72.5°	997.7	899.8	721.8	604.2	530.0	493.4	473.6	449.9	429.1	414.3	414.3
75°	839.5	762.4	609.1	512.2	451.9	425.2	408.4	389.6	371.8	361.9	363.9
77.5°	667.4	609.1	497.4	414.3	369.8	352.0	336.2	325.3	314.4	305.5	306.5
80°	492.4	448.9	365.9	304.6	282.8	267.0	264.0	257.1	251.2	248.2	243.2
82.5°	337.2	298.6	243.2	208.6	192.8	187.9	188.9	188.9	189.9	189.9	187.9
85°	175.0	160.2	123.6	111.7	109.8	114.7	120.6	124.6	123.6	123.6	120.6
87.5°	50.4	45.5	39.6	35.6	37.6	40.5	35.6	34.6	33.6	32.6	32.6
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)